# 2014-2015 UNDERGRADUATE CATALOG

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A MESSAGE FROM THE PRESIDENT

Welcome to Qatar University! It gives me great pleasure to introduce this document which showcases the exciting program offerings available to students. Using this catalog, you will find a wealth of useful information for guidance as you chart your course of study.

The contents of this document highlight the central pillars of Qatar University’s mission, namely the provision of high-quality education and the pursuit of an active role in the development of Qatari society. The courses described here have been designed, reviewed and assessed to meet the highest educational standards, with a strong focus on the knowledge- and skill-bases needed for a graduate to be competitive in today’s labor market or in higher education pursuits. The broad range of programs, many of which have attained independent external accreditation from recognized professional associations, has been crafted with a view to cater to the needs of the labor market and the country’s ambitious development course. Over sixty specializations from seven colleges provide a rich array of relevant, useful, and interesting choices. Furthermore, Qatar University boasts a diverse community of faculty and students from the region and beyond, all working together in an atmosphere of tolerance, respect, and common purpose.

University life offers much more than a path towards a degree. Rather, there is a rich variety of activities, student life programs, and services, of which I hope you will take advantage. Together, the academic and student life teams work to support you and to give you, the student, a comprehensive and well-rounded experience at QU as a first step in the process of life-long learning and growth.

I hope you will take full advantage of this catalog to learn all about the University and its programs and services, which are designed to serve both academic and extracurricular interests and plans.

We are all here to help on your journey, and I wish you a rich and rewarding experience ahead.

Sheikha Abdulla Al Misnad
President, Qatar University

UNIVERSITY LEADERSHIP

Board of Regents
The Board of Regents is the highest level of authority at Qatar University, overseeing all its policies and operations. The Board is responsible for approving the university’s annual budget and any major changes in university policy, degree programs and other administrative and logistic arrangements.

Chair
Mr. Hamad Rashed Al Muhannadi, General Manager, RasGas, provides leadership and guidance to both the Board membership and the organization as a whole.

Vice Chair
H.E. Sheikh Dr. Abdullah Bin Ali Al-Thani, President, Hamad Bin Khalifa University. He is also the Vice President for Education.Qatar Foundation for Education, Science, and Community Development; and Chair, Executive Management Committee, QU Board of Regents.

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Chairman, Qatar Businessmen Association
Member

H.E. Sheikh Dr. Khalid Bin Thani Bin Abdullah Al-Thani
Chairman and Managing Director, Qatar International Islamic Bank
Member

H.E. Prof. Sheikha Abdulla Al-Misnad
President, Qatar University
Ex-officio

General Secretary
Prof. Abdel Aziz El Said El-Bayoumi
Secretary General, QU Board of Regents; professor and academic advisor to QU President

President
Prof. Sheikha Abdulla Al-Misnad
As the Chief Executive Officer of QU, the President has overall authority of its administrative and academic processes, adhering to the principal goals of the organization’s Strategic Plan. This includes overseeing QU’s commitment to its vision and mission, and serving as its official spokesperson and representative at all public appearances in Qatar and abroad.

The President participates in all deliberations at the Board of Regents’ meetings and executes ensuing recommendations made by the Board. The President submits an annual operating budget for Board approval, as well as nominations for the positions of Vice-President at the organization.

Prof Al-Misnad assumed her position as QU’s 5th President in 2003, having served as its Vice President for Research and Community Development from 2000 to 2003. A QU alumna, she rejoined the university as a teaching assistant in 1977, and in 1986 became a member of the University Council and later, Head of the then-Department of Foundations of Education from 1992 to 1995.

Always a strong advocate of education and life-long learning, Prof Al-Misnad received her Doctor of Philosophy in Education in 1984 from the University of Durham UK with a thesis on “The Development of Modern Education in the Gulf States with Special Reference to Women’s Education” which was subsequently published by Ithaca Press in 1985. The university later awarded her
an honorary doctorate in civil law in January 2008 in recognition of her “outstanding achievements in the field of education”.

In October 2013, she was awarded an honorary Doctor of Laws from Dalhousie University, Canada.

Adding to her many achievements, Prof Al-Misnad was appointed a member of the Board of Trustees of the American University of Cairo in 2010, a member of the Asian University for Women International Council of Advisors in 2009, and has held membership in the United Nations University (UNU) Council since 2004. Among a number of distinguished awards, she received the 2011 Woman in Education Service Excellence Award in the 10th Middle East Women Leaders Awards.

Prof Al-Misnad’s accomplishments also included appointment as Minister by then-HH The Emir in 2010.

**Vice Presidents**

Dr Humaid Abdullah Al Midfaa

Vice President and Chief Financial Officer

The VP and CFO is responsible for the general supervision of QU’s administrative and financial affairs. Dr Al-Midfaa has held this position since 2003. After completing his PhD in Non-Organic Chemistry from London University in 1988, he began his career at QU as Assistant Professor of Chemistry at the Department of Chemistry in the then-College of Science. Before assuming his current role in 2003, Dr Al-Midfaa held several administrative positions among which were Director Research and Applied Sciences Center, and Dean of Student Affairs.

Dr Mazen O Hasna

Vice President and Chief Academic Officer

The VP and CAO is responsible for the general supervision of all QU academic programs, research, continuing education and libraries. In February 2013, Dr Hasna was appointed to his current position following his successful tenure as Dean of College of Engineering (CENG). He earlier held the positions at the College of Assistant Professor, and later, Head Electrical Engineering Department and Associate Dean for Academic Affairs.

Dr Hasna received his BSc degree in 1994 from Qatar University, an MSc from the University of Southern California in 1998, and a PhD in 2003 from the University of Minnesota, all in Electrical Engineering, majoring in communications engineering.

Dr Omar Mohamed Al-Ansari

Vice President for Student Affairs

The VP for Student Affairs is responsible for the general supervision of all student initiatives at Qatar University, including admission, registration and academic records, student life, campus activities, student academic support and related student services. Dr Al-Ansari was appointed Associate Vice President for Student Affairs in 2003 and assumed his current position in 2007. He holds a PhD in Civil Engineering from the University of Texas at Austin, USA.

Dr Hassan Rashid Al-Derham

Vice President for Research

The Office of the VP for Research is responsible for encouraging, promoting and facilitating research and collaboration activities among the QU community and with external organizations and institutions. A PhD in Civil Engineering from University of Glamorgan UK, Dr Al-Derham has held this position since 2007, following his earlier responsibilities as Associate Vice President for Research. In addition to overseeing the organization’s research centers and units, Dr Al-Derham holds the Chair on both the Quality Management and Quality Assurance Committees.

Prof Salih Said Al Sowaidi

Vice President for Institutional Planning and Development

The Office of the VP is responsible for facilitating the integration of accountability, assessment, planning, accreditation and institutional research, and providing essential support to QU administration and community. Prof Al Sowaidi has held this position since November 2008, prior to which he served as a consultant to QU President, Vice President for Administration, and Associate Dean at the College of Business and Economics (CBE). A PhD in Economics from University of Durham UK, Prof Al-Sowaidi has served as professor of economics at CBE since 2004.
## DIRECTORY

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<tr>
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<td>Vice President for Students Affairs</td>
<td>44033700</td>
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**UNIVERSITY TERMINOLOGY**

**Academic Advisor**
Faculty member/administrator assigned to counsel students on academic matters. The student is called the "advisee".

**Academic Calendar**
Annual listing of all official dates and deadlines for the academic year.

**Academic Load**
Total credits for which a student is registered in a given semester or term.

**Academic Record**
Records directly related to the education of a student and maintained by the Registration Department.

**Academic Standing**
Determined by academic regulations governing good standing, probation, and dismissal.

**Academic Year**
The period of time beginning with the first day of class of a fall semester and those which follow up to, but excluding, the first day of class of the fall semester of the following year.

**Add and Drop**
A period of time at the beginning of each semester/term when students can adjust schedules by dropping or adding courses or changing sections of a course.

**Admission**
Formal acceptance as a student.

**Alumni**
Those who have graduated from Qatar University.

**Audit a Course**
Permission to attend and participate in a course without receiving academic credit.

**Bachelor’s Degree**
A four-year minimum undergraduate degree.

**Catalog Year**
A student's Catalog year denotes which specific set of graduation requirements will apply to that student. Unless altered, a student's Catalog year is the year when the student was admitted to study at QU.

**Co-requisites**
A course required to be taken simultaneously with another course.

**Course**
A unit of study that may utilize lecture, discussion, laboratory, seminar, independent study, internship, or other similar teaching formats to facilitate learning for a student.

**Course Schedule**
A list of courses offered during a semester that specifies the days, hours, locations of classes, and the names of the instructors.

**Credit Hour**
The equivalent of a 50-minute lecture or two to three hours of laboratory per week for one regular semester.

**Curriculum**
A structured set of learning objectives built in a specified set of courses.

**Degree Audit**
A structured set of learning objectives built in a specified set of courses.

**Department**
An academic unit of a college or an administrative unit of the university.

**Directed Study**
An investigation under faculty supervision beyond what is offered in existing courses. Directed study may include, but is not limited to graduation, research or capstone projects.

**Dismissal**
The involuntary removal of a student from the university for unacceptable conduct or unsatisfactory academic achievement.

**Common Examinations**
Examinations for courses with multiple sections scheduled at a common time at the request of the college/department.

**Concentration**
Sub-specialization within a major that allows a student to focus on a particular aspect of the major field of study.

**Core Curriculum Requirements**
Requirements common to all undergraduate students designed to provide both breadth and specialization in their academic degree programs.

**Directed Study**
An investigation under faculty supervision beyond what is offered in existing courses. Directed study may include, but is not limited to graduation, research or capstone projects.

**Examinations for courses with multiple sections scheduled**
at a common time at the request of the college/department.

**Records directly related to the education of a student and maintained by the Registration Department.**

**Standards of academic conduct**
A student's Catalog year denotes which specific set of graduation requirements will apply to that student. Unless altered, a student's Catalog year is the year when the student was admitted to study at QU.

**Curriculum**
A structured set of learning objectives built in a specified set of courses.

**Directed Study**
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**Directed Study**
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**Dismissal**
The involuntary removal of a student from the university for unacceptable conduct or unsatisfactory academic achievement.
Elective Course
A course selected at a student’s discretion and may require approval of the academic advisor.

Extracurricular
Enrichment and leadership development activities that are part of student life but are not part of the academic program, such as student activities, athletics and music.

Fee
Charges for services; does not include course tuition.

First Year Student
A student admitted to QU who either has never attended a university or who has earned less than 24 credit hours at another university.

Foundation Program Courses
Pre-Undergraduate remedial courses numbered 099 and below. Students may be waived out of these courses by placement tests. Foundation courses do not count in the credits earned toward a degree, but they do count in the Foundation Program grade point average.

Full-Time Student
An undergraduate student who is registered for 12 or more credit hours in a given semester.

Good Standing, Academic
The academic standing of an undergraduate student who has achieved a cumulative GPA of 2.00 or higher. The academic standing of a student who is working toward completion of a bachelor’s degree.

Graduate Student
A student who has completed an undergraduate degree and who is admitted to QU to pursue an undergraduate degree program.

Graduate School
A secondary curriculum component of an academic program intended to provide in-depth study in a discipline or a professional field of study.

Honors Course
Honors section of core curriculum course or courses that are used to meet elective requirements. Only Honors students may enroll in an Honors course.

ID Card
University student identification card providing and controlling access to university facilities and services.

Incomplete
A temporary grade that a student may request from the instructor if he/she attends but fails to complete all the course requirements.

Major
A curriculum component of an academic program intended to provide in-depth study in a discipline or a professional field of study.

Minor
A secondary curriculum component of an academic program intended to provide a limited depth and/or breadth of study in a discipline or a professional field of study.

Non-degree Student
Designation used for students who are admitted to QU and who are enrolled in courses but are not pursuing a degree program.

Petition
A written request seeking a waiver of, or an exception to, a university regulation, policy or deadline.

Placement Test
A proficiency examination given to determine a student’s ability in a subject area. Placement test scores determine whether the corresponding preparatory course will be waived.

Prerequisite
A course required to be completed before a certain course may be taken.

Probation, Academic
Status of any undergraduate student who has completed a minimum of 24 undergraduate credit hours with less than a 2.00 cumulative GPA. The academic standing of a diploma student who has a cumulative GPA of less than 2.50. The academic standing of a graduate student achieving less than a 3.00 cumulative GPA.

Probation, Disciplinary
A formal notice affecting the non-academic status of the student resulting from unsatisfactory conduct.

Readmission
The act of admitting an undergraduate student back to the university through the Admissions Department after an interruption of studies for more than one semester.

Regenulement
A student who withdrew from QU without approval may seek re-enrollment through the Registration Department.

Registration
The process of enrolling in classes.

Regular Student
A degree-seeking student.

Reinstatement, Request for
A mechanism allowing undergraduate students dismissed for academic deficiency to apply for reinstatement after completing a minimum suspension period of 1 regular semester.

Required Courses
Courses other than free electives prescribed by the college/school necessary for the completion of a particular degree program.

Second Degree Student
A student who has completed an undergraduate degree and who is admitted to QU to pursue an undergraduate degree in a different major.

Semester
Either of the two (Fall and Spring) 16-week periods of instruction followed by an examination period into which the academic year is divided. A summer session is decided and offered on an annual basis.

Student Classification
QU students are classified as either regular degree-seek ing or visiting non-degree students.

Study Away
A listing of the courses a student is taking in a given semester that specifies the days, hours, locations of classes and the names of the instructors.

Student Schedule
A listing of the courses a student is taking in a given semester.

Study Away
A listing of the courses a student is taking in a given semester.

Transfer Credit
Credit from coursework completed at another institution that is accepted at QU and which may or may not be applicable toward a specific QU degree.

Transfer Student
A student who previously attended another university and has been admitted to QU after satisfying the QU transfer admission requirements. Credits completed at the student’s prior university may or may not be transferable to QU.

Tuition
The fees charged for courses each semester.

Undergraduate Student
A student who is working toward completion of a bachelor’s degree.

Visiting Student
A student from another accredited institution who plans to graduate from that institution and who is admitted to QU for a limited period.

Warning, Academic
An official notification to students who failed to achieve in any particular semester a term GPA equal to or at least the minimum cumulative GPA requirement for “Good Standing” or whose additional failure in a particular course will result in an Academic Dismissal.

Warning, Disciplinary
An official notification that the student’s behavior violates the Student Integrity Code.

Withdrawal from a Course
After the regular drop/add period, students may withdraw from one or more courses before the withdrawal deadline for the semester, provided that the total number of credit hours carried does not fall below the minimum credit hour requirement of the program.

Withdrawal from the Semester
Withdrawal from all registered courses for the semester of withdrawal.

Withdrawal from the University
Suspends enrollment in QU for a period not to exceed four semesters.
DISCLAIMER

The Undergraduate Catalog is intended to reflect current academic policies, procedures, degree offerings, course descriptions, and other information pertinent to undergraduate study at Qatar University. This catalog identifies the minimum University requirements. Individual programs may prescribe additional requirements. Students should consult with their respective college and/or program director for a comprehensive listing of major/programmatic requirements. As it is not possible in a publication of this size to include all of the rules, policies and other information that pertain to students and Qatar University; more current or complete information may be obtained from the appropriate college, academic department, or administrative office.

The QU Undergraduate Catalog contains the most accurate and recent information available for students of the university. However, due to potential issues in publication, readers are cautioned on the following:

1. Errors of typographical or editorial nature, or technological compatibility issues may be present due to the publication process, and the University assumes no responsibility for such errors.

2. There is an inevitable delay between the time new policies are approved and their appearance in the publication.

3. Degree-seeking students are held to the provisions of the catalog in effect at the time of their first semester of enrollment. Students who re-enroll will be subject to the new terms and conditions of their first semester back.

4. The University reserves the right to change any provisions of this catalog at any time, including, but not limited to, course offerings, degree requirements, fees, and calendar listings, as required by the University or the State of Qatar.

The Undergraduate catalog is made available in printable format and online at www.qu.edu.qa/students/catalog.php. In the event that information in the online catalog differs from that of the printable form, the online catalog shall prevail as the governing document for the current academic year.

The content of this catalog is for internal use only. However, since it may become accessible to others outside the University, QU reserves all rights to the contents of this document. For further information, please visit the following website http://www.qu.edu.qa.
CHAPTER 1
ABOUT THE UNIVERSITY

Since its inception in 1973, Qatar University (QU) has served as Qatar’s prominent national institution of higher education, and is positioned as a beacon of academic and research excellence in the region. Serving over 15,000 students, the organization provides a teaching and learning environment enhanced by top-rate faculty, facilities, resources, and student-driven services that enhance academic performance and produce quality student outcomes.

Seven colleges – Arts and Sciences (CAS), Business and Economics (CBE), Education (CED), Engineering (CENG), Law (LAWC), Pharmacy (CPH), and Sharia and Islamic Studies (CSSIS) – offer over 70 specializations at the undergraduate level – the widest range of academic programs in the State of Qatar.

QU has continued to respond to labor market needs for specialist professionals and national aspirations towards a knowledge-based economy by establishing a number of graduate programs which number 26 to date – 19 Masters, four Diplomas, one PharmD and two PhDs, fielding current and emerging issues relevant to Qatar and the Gulf. They are distributed among CAS (5 Masters, 1 PhD); CBE (2 Masters); CED (2 Masters, 4 diplomas); CENG (7 Masters, 1 PhD); CPH (1 Masters, 1 PharmD); and CSSIS (2 Masters).

The Foundation Program which was restrucutred in 2012 focuses on improving students’ language and Math skills, and caters to individual learning needs and facilitates movement from one level of the Program to the next based on individual progress. The Program does not require student achievement of minimum scores in IELTS or TOEFL proficiency tests – a passing score of 70% will allow students to enroll in their respective college/program. QU has committed considerable resources to upgrading its classroom and campus infrastructure with modern technology-enabled resources such as Lecture Capture, Blackboard, CiscoWebEx, and special needs assistive technology; advanced research labs, new and environmentally-friendly buildings, and well-equipped library facilities. These have made a positive impact on both teaching approaches and students’ enjoyment of learning.

A diverse student body at QU comprises over fifty-two nationalities, the majority of which are Qatari nationals. Women make up approximately 77% of the student population.

QU has an alumni body of over 33,000 graduates and boasts a vibrant Alumni Association comprising 15 chapters. Its fifth and current President, Prof Sheikha Abdulla Al-Misnad, is a QU graduate of the Class of 1977. Also among its distinguished alumni is Her Highness Sheikha Mozah Bint Nasser, Class of 1986, as well as leaders in business, industry, government, academia and civil society.

VISION
Qatar University shall be a model national university in the region, recognized for high-quality education and research and for being a leader of economic and social development.

MISSION
Qatar University is the national institution of higher education in Qatar. It provides high quality undergraduate and graduate programs that prepare competent graduates, destined to shape the future of Qatar. The university community has a diverse and committed faculty who teach and conduct research, which addresses relevant local and regional challenges, advances knowledge, and contributes actively to the needs and aspirations of society.

HISTORY
The University originally began as the College of Education in 1973, instituted by an Emiri decree as the first national higher education institution to be established in the state of Qatar. The country’s burgeoning economic growth saw a push toward education reform to provide post-secondary education opportunities for Qatari citizens with the goal to building a workforce of competent and skilled graduates in line with labor market needs and adhering to the principles of Qatar National Vision 2030, National Development Strategy, National Health Strategy, and the National Research Strategy. Intrinsic to QU’s position as an institution of academic and research excellence, best practice and international standard, is its adherence to preserving the language, history, and cultural traditions of Qatar and the Islamic world.

QU REFORM
Qatar University embarked on a comprehensive reform project in 2003, with a focus on three main goals: autonomy, academic reform, and administrative and financial reform. The objective was to modernize its academic programs, and upgrade and decentralize its administrative processes and procedures with a central objective towards overall efficiency and creating an edifying and motivating academic experience for its students.
The project was led by then-H.H. the Heir Apparent Sheikh Tamim Bin Hamad Al-Thani, Qatar President ProfSheikh Abdullah bin Ali Al-Thani of Institutional Planning and Development (OIPD). Reform efforts resulted in the establishment of a Board of Regents that essentially guides QU’s policies and operations. Reform Plan was the forerunner for the University’s comprehensive Strategic Plan 2009-2013, which highlighted a priority focus on promoting quality education, research, community service, and institutional efficiency. The current Strategic Plan 2013-2016 has enumerated 4 areas that will shape QU’s future development, enhance student experience, optimize institutional effectiveness, build international recognition, and recognize scholarly excellence.

An important component of the exercise was QU’s strengthened commitment to its students. With the implementation of a number of initiatives and strategies such as a new, student-centered Foundation Program, amended policies on student academic probation and retention and a self-study to gauge students’ first-year campus experience and readiness to develop knowledge in student engagement, motivation and success. These also include a refocused Student Learning Support Center, an award-winning Center for Academic Advising and Retention, Student Complaint System, peer tutoring and after-student mentoring, and counseling services. They form part of the organization’s growth strategy which puts each student’s interests at the heart of its plans by advancing the improvement of their learning skills and so advancing their competitiveness as students and later as graduates in the labor market. Student participation in the life of the campus comes in the form of the Qatar University Student Representative Board (QUSRB), which was established to serve and act in the interest of the students and the QU community. The institution considers research a priority area to develop and expand for the benefit of its students, faculty, the university as a whole and the Qatari community in general. This is evidenced by the incorporation of research in every aspect of the academic experience; a fact reflected in research faculty funding, which amounted to USD 200 million in 2011-2012.

The institution’s commitment to promoting a culture of research is also emphasized through its annual Qatar University Research Forum (QURF), the national and regional level of a research complex and several specialized research centers of excellence. These centers, which today number 12, focus on a wide range of research areas such as the environment, marine conservation, data collection and statistical analysis, road and traffic safety, materials processing, mobility innovations, laboratory management and safety, and educator development. Initiatives such as a ground-breaking biofuel project, a desalination plant, and water reuse study are among the research projects at QU that are geared towards addressing issues that present themselves in a country that is rapidly expanding. QU has had continued success in gaining a large percentage of National Priorities Research Program (NPRP) and Undergraduate Research Experience Program (UREP) projects fund from the Qatar National Research Fund (QNRF). In the 6th NPRP cycle, out of 512 million funds allocated, Qatar University received the largest amount of any institution, totaling $53,982,480 for 63 research projects. The University had submitted as many as 369 proposals out of a total of 710 proposals from 98 institutions. The organization also achieved a success percentage of 31.9% in the 13th cycle of UREP, gaining awards for 29 out of 91 submitted proposals.

Additionally, QU received its first-ever award in the Exceptional Proposal category in the NPRP cycle. This was for a novel schools-based obesity project, the Qatari School-based Obesity Pilot Project (QSOBP). A multi-million dollar Research Complex is soon to be launched; it will house the research centers which focus on a wide range of research areas, such as the environment, marine conservation, data collection and statistical analysis, road and traffic safety, materials processing, mobility innovations, laboratory management and safety, and educator development. Initiatives such as a ground-breaking biofuel project, a desalination plant, and water reuse study are among the results. Students joining Arabic-taught programs are exempt from Foundation requirements, and additional degree programs are being offered in Arabic, including International Affairs and Business & Economics. Arabic remains the official language of administrative communication at the organization. The University strives to provide as many course hours as possible, based on the capacity within the different disciplines. Admission to all QU programs continues to be based on student competitiveness and program capacity. It is, however, compulsory for all students to enroll in core curriculum courses. Information about the core curriculum can be found on QU website. The University continues to enhance its role through its student advisory board and the organization’s success in gaining awards for 29 out of 91 submitted faculty proposals. The institution has also altered its research priorities into partnerships with government, business, industry and civil society organizations. This has included the establishment of Chair positions in various research areas such as Sustainable Development, Qatar Shell at the College of Engineering, and Qatar National University’s (QNU) Environmental Science and Engineering (Maersk Oil Qatar) and Architecture (Msheireb) at the College of Architecture, to name a few. The organization also achieved a success percentage of 31.9% in the 13th cycle of UREP, gaining awards for 29 out of 91 submitted proposals. The institution has also altered its research priorities into partnerships with government, business, industry and civil society organizations. This has included the establishment of Chair positions in various research areas, and agreements and MOUs that advance research collaboration opportunities for students and faculty.

**STUDENT**

Qatar University pursues identity on its own qualities and alumni. It started with 150 students in 1973, and grew to a total of approximately 15,000 in the academic year 2011-2012. The University is committed to ensuring that campus life is an enriching environment for encouraging volunteerism, civic responsibility, and leadership. QU Arts was established as the only major arts campus of any national and community service activities such as the Qatar Career Fair, planning and execution of Eid charity projects, organization of the National Day parade at QU, as well as many academic societies and clubs. A number of student events and extracurricular activities, such as the Cultural Village, Sponsorship and Internship Day, as well as Clubs Day, have become staples on the academic calendar. The annual Student Activities Council (SAC) is a Student Council that advises and supports all SAC member clubs and individual members. The Student Athletics Council also represents the student-athletes. The Scholarships & Partnerships Office is a way in which the organization has encouraged students to pursue further studies at prestigious institutions in the region. In line with the organization’s commitment to Qatization, the Office facilitates national students’ needs and
aspirations in pursuing Masters and PhD studies at top tier universities around the world, so building a cadre of distinguished scholars to join QU’s ranks after graduation and contribute their expertise to the organization’s teaching and learning environment.

Today, 52 national scholars are studying at universities abroad and 20 are in preparation for their scholarship journey to pursue a wide range of studies which will be of considerable value to the “brain” of QU. Thirteen scholars have joined QU to date, bringing a wealth of knowledge and experience gained from their studies abroad. The Office for Graduate Studies plays a major role in supporting graduate studies and research and scholarship. Its Grad Faculty Forum serves as a platform to build student/faculty relationships to advance quality research and collaboration.

During the academic year 2012-2013, QU awarded internal student grants totaling over QR11 million. The grants create a positive competitive environment, encouraging students to engage and excel in projects of academic and social import, and advance the institution’s reputation for talented studentship. QU also supports exchange visits with foreign universities, and study and training trips abroad for its students to gain exposure and perspective on an international level.

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FACULTY

QU recruits qualified professionals and experts in their respective fields to ensure a continuum of academic excellence throughout the colleges, so guaranteeing the value and quality of the student experience. The faculty framework at QU includes (by qualification) Professor, Associate Professor, and Assistant Professor. These positions are supported by lecturers and teaching assistants. Visiting professors also bring added expertise to the teaching/learning experience.

In addition, experts appointed to Chair positions at QU facilitate graduate research and training activities in conjunction with industry companies to provide students with hands-on experience at field sites and workplace environments.

COMMUNITY SERVICE

Community service is another priority area at QU. Like research, it forms part of the learning environment, and enhances students’ academic and extra-curricular life at the university. The provision of optimum community service is an intrinsic part of the organization’s Strategic Plan and is closely aligned with the goals outlined in Qatar National Vision 2030 and the National Development Strategy (2011-16). It is also detailed in the requirements of SACS, the accrediting body from whom QU is currently seeking institutional accreditation.

The wide range of community service activities by QU at the institution, college, department, and student and faculty level include national capacity building, alumni engagement, professional development training, health and wellness campaigns, high school outreach programs, environmental conservation, library facilities, consultancy support services, and research and collaboration.

ACCREDITATION

Qatar University regards international accreditation as a crucial step in achieving its goal as an institution of quality and excellence. With this in mind, the organization has embarked on a long-term project of achieving international accreditation status for its colleges, programs and courses. It has been successful in gaining accreditation from leading international accrediting bodies and is currently undergoing an institution-wide exercise to gain accreditation status with the US-based Southern Association of Colleges and Schools (SACS).
CHAPTER 2 CAMPUS SERVICES

THE CAMPUS
Qatar University is situated on the northern edge of Doha, approximately 16 kilometers from the center of the city. In addition to the main campus, the University has an experimental farm located 65 km north of Doha. QU’s main campus is built on a total area of approximately 8 square kilometers, with architecture that integrates distinct and modernism with the ideals of traditional Qatari design. Students are readily provided with a wide range of services offered on campus to enrich their academic and social experiences, both during the day and after class hours.

INFORMATION TECHNOLOGY
Information Technology Services is committed to the provision of the best infrastructure, applications, and services to faculty, students and staff of Qatar University. All QU students, faculty and staff are given secure access to the following University services:

• myQU: myQU is the University’s web portal, a web-based tool that provides centralized access to e-mail, calendars, administrative services and classroom tools, and information through a single username and password. To access myQU, users can direct their web browser to http://my.qu.edu.qa and log in with their QU credentials.

• myBanner: Banner is an effective information system to the following University services:

• Email: http://my.qu.edu.qa and log in with their QU credentials.

• BYOD: Students, Faculty and Staff can use ‘Bring Your Own Device’ services at QU. Users can register and connect up to four different wireless devices to the QU WiFi system.

IT Helpdesk contact information:
Phone: (+974) 4403-3450
Email: helpdesk@qu.edu.qa
Website: itis.qu.edu.qa/
Operating Hours:
Sundays – Wednesdays: 7:30 am – 7:30 pm,
Saturdays: 8:00 am – 3:00 pm

FACILITIES AND RESOURCES

Athletics
Qatar University provides students, faculty, staff, and the Qatari community with a wealth of athletic and recreational facilities to enrich their academic experience. Equipment, play courts and coaching are available for many popular pastimes. QU supports several sports facilities including the stadium, the aquatic complex which offers a variety of cardiovascular machines, free weights, and weight machines, and a women’s sports facility that hosts a wide range of games and activities, and contains a gymnasium. All facilities are open weekdays from 8:00 am to 10:00 pm. For further information, please contact the Sports and Recreational Section at sports@qu.edu.qa or 4403-3800.

Banking
Students and employees are offered convenient access to banking services through two local bank branch offices and several ATM machines in key locations on campus. Qatar National Bank (QNB) and Al-Rayyan Bank both offer a full range of services, and their campus branches are open weekdays from 8:00 am to 1:00 pm.

Bookshop
The Bookshop is located at the Food Court Building in the women’s section, and sells a wide selection of stationery and classroom supplies, study and research aides, paint and art materials, and books in Arabic and English, as well as magazines and computer equipment. The bookshop also offers photocopy services.

Textbooks
The Textbook Hall provides faculty and students with textbooks and eBooks designed to support their course curricula. As part of a University-wide initiative to boost learning skill acquisition and enhance research, QU provides a subsidy that equals 50% of the total price for textbooks and eBooks costing over QR 50. For more information, please see: http://www.qu.edu.qa/students/services/textbooks/index.php.

Food Services
Qatar University offers extensive dining facilities across its campus, with services catering to a large variety of tastes and concepts. The women’s section has a Food Court and 14 cafeterias. The men’s section has 9 separate cafeterias. There are international cafes on campus, including Starbucks, Coffee Time, Coffee Bean & Tea Leaf and Costa.

Location:
Main office: Food Court, Mezzanine Floor, Office #2
Dining Outlets:
Women: College of Arts & Sciences, Women’s Main Building, Activities Building. Parking Lot, Sports Facility Building, College of Business & Economics, College of Education, Food Court, New Library
Men: College of Engineering- Corridor 08, Men’s Main Building, Activities Building, Foundation Building, College of Business & Economics, Water Complex, New Library
Phone: 4403-3865 /5970 /5975
Email: foodservices@qu.edu.qa
Twitter: @QUFSS
Facebook: www.facebook.com/QUFSS
Working hours (Food Services Section):
Sunday-Thursday 7:30am- 2:30pm
Working hours (Dining Outlets):

<table>
<thead>
<tr>
<th>Cafeteria</th>
<th>Opening and Closing Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>Women’s Main Building</td>
<td>7:00 am to 7:00 pm &amp; 7:00 am to 6:30 pm</td>
</tr>
<tr>
<td>College of Arts &amp; Sciences-1 &amp; 2</td>
<td>7:00 am to 7:00 pm &amp; 7:00 am to 4:30 pm</td>
</tr>
<tr>
<td>Women’s Activities Building</td>
<td>7:00 am</td>
</tr>
<tr>
<td>Parking Lot</td>
<td>7:00 am</td>
</tr>
<tr>
<td>Sports Facility Building</td>
<td>7:00 am</td>
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<tr>
<td>College of Business &amp; Economics</td>
<td>7:00 am to 6:30 pm</td>
</tr>
<tr>
<td>College of Education</td>
<td>7:00 am</td>
</tr>
<tr>
<td>Female Activities</td>
<td>7:00 am</td>
</tr>
<tr>
<td>Food Court</td>
<td>7:00 am</td>
</tr>
<tr>
<td>New Library</td>
<td>7:00 am</td>
</tr>
</tbody>
</table>

Working hours (Food Services Section):
Sunday-Thursday 7:30am- 2:30pm

Working hours (Dining Outlets):

<table>
<thead>
<tr>
<th>Men</th>
<th>Opening and Closing Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>Men’s Main Building- 135 &amp; 136</td>
<td>7:00 am to 7:00 pm &amp; 7:00 am to 4:30 pm</td>
</tr>
<tr>
<td>Men’s Activities Building</td>
<td>7:00 am</td>
</tr>
<tr>
<td>Men’s Foundation Building</td>
<td>7:00 am</td>
</tr>
<tr>
<td>College of Business &amp; Economics</td>
<td>7:00 am to 8:30 pm</td>
</tr>
<tr>
<td>Water Complex</td>
<td>9:30 am</td>
</tr>
<tr>
<td>New Library</td>
<td>7:00 am</td>
</tr>
</tbody>
</table>

Computer Labs
A large number of academic computer laboratories are available throughout campus for student research and assignments. Students should contact academic departments directly for specific information regarding individual college computer labs and resources.

Copying and Printing Services Centers
Qatar University provides copying, printing, laminating, and scanning services at the copy centers, which are located in both the Women’s and Men’s Activities Buildings and Library Building. Students may also request copying and printing service online via the University Portal (myQU).
Internet Lounges
Internet lounges are available to students in both the Women’s and Men’s Activities Buildings. The internet lounges also offer wireless connectivity and are open weekdays from 8:00 am to 5:00 pm. For more information, see: http://www.qu.edu.qa/student/services/primary_services/copy_print.php

Lockers
Qatar University provides lockers in various buildings in both the men’s and women’s sections. For more information, please see: http://www.qu.edu.qa/student/services/lockers/index.php

Student Campus Card
The Student Campus Card is a part of the One Card program, which is used mainly on campus as an identification card and for other important purposes, such as accessing university facilities, checking out library materials, purchasing books at the University Book Store, and accessing many other services at QU, etc. For additional information regarding the student campus card, please visit their website at: http://www.qu.edu.qa/student/services/uni_id-card/index.php

Central Laboratory Unit (CLU)
The CLU provides analytical and technical support and consultancy to serve research activities and testing needs. The Unit also works to optimize and upgrade the practical performance of technical staff and students, as well as to provide hands-on experience on using the analytical instruments for university members.

Environmental Studies Center (ESC)
The ESC conducts multidisciplinary environmental analysis on the important natural flora and fauna of the region. The Center is often contracted by government or private organizations for activities related to the development and welfare of Qatar society in the social, economic, and cultural areas. With a sophisticated Survey Operations Unit, the Center regularly conducts surveys and research assistants, SESRI conducts national and regional studies utilizing best practices in survey research. It is also encouraged to visit and learn more about the centers, and to envision Qatar University mission to provide our customers with best quality services.

Gas Processing Center (GPC)
The GPC supports a large industrial consortium of National and Multi-National companies and addresses the problems, challenges, and opportunities facing the state of Qatar’s gas processing industry. The Center conducts research and development in areas pertinent to the consortium members’ needs and directed resources towards two areas; asset management/ process optimization, and sustainable development. The GPC offers an extensive training program and engages with the broader community through its annual GASNA competition.

Office of Academic Research (OAR)
Established in 2007, the OAR reports to the Office of the Vice President for Research. Since then, the OAR has served as a vital source to faculty regarding the preparation and submission of proposals, sources and opportunities of funding, review of budgets, compliance with University policies and procedures and promoting technology throughout the University.

Office of Quality Management (OQM)
In conjunction with the Vice President for Research, the OQM seeks to enhance the organizational effectiveness, expand its capability, and engender a culture of continual improvement and development.

The OQM was established to ensure consistent management policies and practices, establish a linkage between the testing and quality control results, encourage best practice share experiences, and eliminate duplication of efforts. In other words, it serves to help guide the centers and units on their journey toward performance excellence. To achieve great performance, the Office works with research centers and units to make smart investments in research, our most valuable resource; our people, and to envision Qatar University mission to provide our customers with best quality services.

Social and Economic Survey Research Institute (SESRI)
Reporting directly to the Office of the President, the SESRI was established in 2008 with a mandate to conduct high quality survey research related to the development and welfare of Qatar society in the social, economic, and cultural areas. With a sophisticated Survey Operations Unit and an experienced staff of researchers and research assistants, SESRI conducts national and regional studies utilizing best practices in survey research. It is also encouraged to visit and learn more about the centers, and to envision Qatar University mission to provide our customers with best quality services.

Continuing Education Office (CEO)
The CEO is a link between the University and society. The Office is responsible for the development of needs of society through specialized training programs, in addition to preparedness programs for professional and international certifications. It enables the greater community to benefit from the expertise, experience and resources available at the university.

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As an institution committed to academic excellence, as well as the preservation and expansion of Arabic culture, Qatar University maintains a robust library system to meet the needs of students, employees, and the Qatar community.

For more information on these programs and how to apply, please visit the Continuing Education Office Website: http://www.qu.edu.qa/offices/ceo/programs/certificate_programs/index.php.

Library
Qatar University has four research centers: the Gas Processing Center, Environmental Studies Center, Center of Advanced Materials, and Center of Advanced Materials (CAM) which provides a vast range of library materials, purchasing books at the University Book Store, and accessing many other services at QU, etc. For additional information regarding the student campus card, please visit their website at: http://www.qu.edu.qa/student/services/uni_id-card/index.php

Mosque
The University mosque serves not only as a religious and spiritual center, but a striking visual landmark at the edge of the campus, and has served as a vital source to faculty regarding the preparation and submission of proposals, sources and opportunities of funding, review of budgets, compliance with University policies and procedures and promoting technology throughout the University.

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For more information, please see: http://www.qu.edu.qa/offices/quality/index.php
check out, reserve, and even request books from other libraries through interlibrary loan services. Photocopy and computing services are also available during standard library working hours 7:30am – 7:30pm. The QU Library also features a prominent set of E-Resources, including subscriptions to many renowned Journals, E-books, and other electronic publications. These resources may be freely accessed anywhere. Additional information is available at:  
http://library.qu.edu.qa

MEDICAL CLINIC

The clinic at QU is an outpatient clinic staffed by physicians, nurses and pharmacists who provide medical care to students, faculty and staff of the University in accordance with policies set by Qatar Supreme Council of Health. A team of dedicated staff is constantly on hand, working to secure the safety and well-being of the University’s attendants, as well as contributing to health education and awareness programs.

Services

In order to best address the needs and health of the University’s attendants, the clinic is continuously expanding the scope of its services. Presently, the following are addressed:

1. Emergency medical response at accident sites.
2. Transfer of urgent or critical medical cases to Hamad Hospital emergency ward, accompanied by a clinic nurse.
3. Routine medical procedures for patients, including medical checkups, diagnosis and prescription of treatments.
4. Antenatal healthcare to promote the health of the mother and her fetus during pregnancy.
5. Healthcare program to the children at the Childhood Center.
6. Referral of patients to different specialist clinics approved by the Supreme Council of Health.
7. Medical support during the exam periods, campus events and graduation days as required.
8. Contributing to University-wide Health Education and awareness programs.

Location, Working Hours, and Contact numbers

Emergency number: (974) 4403 5050

Main Clinic: Located in the women’s section, at the main square. The clinic currently accepts walk-ins and appointments for female students and employees. Anyone may call the clinic to request support at their location. Working hours: 7:30am – 7:30pm

Phone: (+974) 4403 3294
Fax: (+974) 4403 3296

College of Arts and Sciences Clinic: Located in the women’s College of Arts and Sciences building (at the main entrance), where nurses are available to provide basic medical services.

Working hours: 7:30am – 2:30pm
Phone: (+974) 4403 3295

Men’s Clinic: Located in the Men’s Student Activities building (on the ground floor), where nurses are available to provide basic medical services.

Working hours: 7:30am – 2:30pm
Phone: (+974) 4403 3287

STUDENT HOUSING

Students attending Qatar University are eligible to apply for student housing. The University provides a safe and secure environment for students to enjoy their academic experience away from home. A purpose built, state-of-the-art student housing and learning community is under construction and will soon provide on-campus housing to students.

At present, student accommodation is off-campus, offering a convenient location, positive learning environment and scheduled transportation to-and-from the university. Rooms are fully furnished and offer comfortable and practical living space for active students. Lounges and common areas are located throughout the building, enabling students to get together for studies and recreation. A computer lab is also available. In order to ensure the best possible experience for everyone, QU has implemented guidelines and safety policies, which can be found online: http://www.qu.edu.qa/offices/housing/

CAMPUS PARKING

Many parking lots are available for vehicles of faculty, staff, students and visitors, including areas designated specifically for students or employees. The University has prepared for the expansion of campus by adding more parking spaces, and reducing walking distances to the premises wherever possible.

CAMPUS SECURITY & SAFETY

The Department of Security and Safety is committed to providing students with a safe learning environment while keeping the university community informed about campus security. Visitor permits are issued to individuals, companies, alumni and conference attendees. Car permits are also issued for all students. For additional information, refer to the website at: http://www.qu.edu.qa/offices/businessop/services/index.php

LOST AND FOUND

The Lost and Found center makes every effort to oversee the caretaking and delivery of lost and found items inside QU campus. There are two ways to report a claim: either by visiting the primary services section in the activities building, or by filling an online claim form via the QU website. For more information, please see: http://www.qu.edu.qa/students/services/lost-and-found.php

TRANSPORTATION

Qatar University provides the following transportation services:

• Bus transportation for female students to and from the university.
• Bus transportation between the student residencies and the university for men and women.
• Bus transportation for scientific and educational trips organized by various university departments.
• Campus Express: This is a free shuttle bus service that safely transports students around campus.

For additional information, please see the Transportation Services website at: http://www.qu.edu.qa/students/services/tra/index.php

Department website at: http://www.qu.edu.qa/offices/businessop/services/index.php
CHAPTER 3
STUDENT SUPPORT AND SERVICES

COMMUNITY INVOLVEMENT AND SERVICE LEARNING
Qatar University provides students with a support system and services that encourage them to make valuable choices towards their social, emotional and learning experiences, as well as their overall development. QU is devoted to the building of a conscientious community, and involves students in various community service initiatives which result in individual growth. Qatar University's students are encouraged to participate in a wide array of Community and Learning Service Programs aimed at fostering civic engagement and responsibility, both in appreciation of the uniqueness of Qatari culture, as well as their exposure to a diversified experience.

STUDENT ACTIVITIES
QU recognizes that much of the learning that a student experiences on campus takes place outside the classroom. It is the belief of the University that student activities assist in the growth of students to their fullest potential. Student activities aim to support the academic goals of the student by providing activities and programs designed to promote and maximize students’ curricular and co-curricular experience in education, recreation, social interaction, and personal growth. For additional information, please visit the Student Activities Department’s website at www.qu.edu.qa/students/activities.

STUDENT LIFE
Campus Events
All students are encouraged to develop their unique personal as well as academic potential by participating in a wide variety of University sponsored student activities, programs, and events that combine culture, learning and entertainment. Such events include the National Day Festival, Cultural Village, Talent Show, Annual Play and Club Days in addition to a wide variety of other co-curricular opportunities that are publicized on campus throughout the year.

Sports and Recreation
QU offers students, alumni, faculty and staff a wide range of opportunities for competitive and recreational sports. Through the year, students are given the opportunity to compete against other QU teams, teams of other universities, or the community. These programs are designed to promote a team-oriented atmosphere and leadership opportunities for all participants. The University also provides instructional classes in swimming, first aid and similar classes that interest students. Additionally, certified workshops and training sessions in a variety of fields are frequently available. Moreover, the QU community has accessibility to three well-equipped sports facilities, including an aquatic complex for men, and a stadium and Indoor Sports Complex for women. The aquatic complex includes a diving pool, an Olympic size pool, and a children's training pool. A variety of sports can be played in the outdoor courts, including tennis, volleyball, and basketball. In addition, an all-year football field and athletic track is also available for student use. A well-equipped gymnasium receives a large number of students and QU staff or faculty.

Table tennis, billiards, and other recreational games are available in the Student Activities Buildings. Daily passes and yearly membership are available to the QU community and the public at nominal fees. For more information or any inquiries please contact sports@qu.edu.qa.

Culture and Exchange Programs
Qatar University students enjoy a diversity of programs and trips through which they can explore other institutions and cultures. The Student Activities Department facilitates and supports incoming and outgoing exchange students as well as any QU student who should travel to benefit from the educational opportunities offered through Qatar University.

Numerous and diverse off-campus opportunities are also available, including:
- Academic/research conferences where students represent Qatar University by presenting and defending their research in various forums, both regionally and internationally.
- Cultural / Educational excursions where select Qatar University students visit reputable educational institutions. Students from these institutions reciprocate by visiting QU. An example of this type of program is the program with Peace College located in North Carolina, USA.
- Students may be selected to officially represent QU regionally or internationally in sports, recreational or educational activities. Currently, QU students regularly participate in the Cultural and Scientific Week in Saudi Arabia, as well as sport tournaments in Egypt and Oman.
- For-credit study abroad and exchange programs.

Students who are interested in any off-campus opportunity can apply online or contact studentexchange@qu.edu.qa.
Academic Support Services

The Student Learning Support Center (SLSC) provides academic support services to all students at QU. The SLSC is a supportive environment where students can seek assistance with course assignments, the transition to college academic life, or other academic issues. SLSC programs include: Peer Tutoring, the Writing Lab, Supplemental Instruction (SI), the Math Lab, and academic success and writing workshops. All programs are designed to help students become independent and successful learners by improving their study skills and self-confidence, increasing their knowledge of course material, encouraging a positive attitude toward education, and preparing them for lifelong learning.

The SLSC promotes peer tutoring in core curriculum courses and Foundation Program courses, and special programs are offered to assist students in improving their English speaking ability. Academic coaching is also available to students who are struggling in their courses.

The SLSC Math Lab offers individual tutoring, math review sessions, and a variety of math resources to assist students in their courses. Additional support is available for students enrolled in historically difficult math courses at QU.

The SLSC Writing Lab supports student writers in their efforts to become better writers in English and in Arabic. At the Writing Lab, students receive assistance with every stage of the writing process, from generating ideas to completing a final draft. Students are welcome to use the Writing Lab services for any course at QU. The SLSC has several offices. The Registration Building and the Women’s Activities Buildings, and all services are free of charge to QU students. For additional information on academic support services, visit the Student Learning Support Center website:

http://www.qu.edu.qa/students/services/sls/index.php

Career Services

The Student Career Services Center provides counseling, training, and professional opportunities and helps to prepare students to engage and compete for the best career opportunities. It specializes in providing QU students with student employment during their study at QU. Additionally, the Center assists students with sponsorship, internship and full-time job opportunities and provides numerous career-related resources, programs and activities. For additional information, visit the Career Services Center website at:

http://www.qu.edu.qa/students/services/csc/index.php

Counseling Services

The Student Counseling Center provides the QU community with a variety of counseling and psychological services, which include individual and group counseling services that help students overcome any impediments affecting their studies. The Center promotes personal and social growth via sessions and groups on self-development, marriage, community outreach programs, top vectors, role models and First Year Success. The 1st Year Success sessions help freshmen students adjust to the demands of college in their first year of studies. All students receiving training in time and stress management, study skills, achieving academic success, personality assessments, goal setting, relationship issues, building self-confidence and other coping strategies. The Top Readers Program promotes a reading culture, critical thinking and acceptance among students. The Center also offers various workshops that enhance students' self-development. Literature on self-help topics is available at the Center, as well as contacts in the community if needed. Confidentiality is very crucial; no student's information will be exchanged with other parties unless the student signs a release of information form. Students' information is taken during counseling sessions is not part of the student academic record.

Students can book their appointments online, in person or via phone. For additional information regarding these services, please visit the Student Counseling Center website at: http://www.qu.edu.qa/students/services/csc, twitter@QUQSCC, instagram@QUQSCC, facebook@QUQSCC.

Student Helpdesk

The Student Helpdesk provides students with a single point of reference for all general inquiries. Communication between the student and staff is done through the Reception desk, Student Call Center, and the official accounts of Qatar Academy on social media (Facebook and Twitter). Furthermore, the Student Helpdesk provides a campus tour service “Explore QU” to introduce QU’s buildings and services.

Students can contact the Student Helpdesk through:

- Email: studentservices@qu.edu.qa
- Telephone: 4403 4444
- Visit the Helpdesk in person; please see:

http://www.qu.edu.qa/students/services/helpdesk/

Reception Desk

The Reception Desk responds directly to the walk-in students or students who need immediate help, helping students to ease any procedures that they may face difficulty with, in addition to trying to find the best solutions to complicated problems that need study and follow-ups. The Reception Desk is located in the Administration and Registration building, on the ground Floor.

Student Call Center

The Student Call Center receives calls from prospective, current or graduate students, parents, and any external stakeholders, and provides them with answers to issues related to all services offered by the University, and direct them to the related departments as necessary. The Student Call Center is available during university working hours: weekdays from 7:30 am to 2:30 pm.

Phone: 4403-4444.

For more information, please see:

http://www.qu.edu.qa/students/services/helpdesk/call_center.php

Explore QU Service

The Explore QU Service is a campus tour service offered by the Student Call Center. It includes a campus tour for newly admitted students, current students and students’ parents to get familiar with QU campus, and better understand of the facilities and services through well-organized, informative and entertaining tours.

Parents Program

The Parents Program provides communication between the University and parents of QU students, in order to support student success. generate good will for the University, and promote an appropriate role for parents within the QU family. The Unit accomplishes this by delivering high-quality, relevant and useful programming and communication to help families navigate their evolving role and establish a productive university-parent partnership.

Parents can contact the Unit at 4403-3768 / 4403-5967, or via email: parents@qu.edu.qa. The Parents Program provides communication between the University and parents of QU students in order to support student success. generate good will for the University, and promote an appropriate role for parents within the QU family. The Unit accomplishes this by delivering high-quality, relevant and useful programming and communication to help families navigate their evolving role and establish a productive university-parent partnership.

Students can contact the Student Helpdesk through:

- Email: studentservices@qu.edu.qa
- Telephone: 4403 4444
- Visit the Helpdesk in person; please see:

http://www.qu.edu.qa/students/services/helpdesk/

Special Needs

Qatar University is committed to providing all academically qualified students with educational opportunity. Every effort is exerted to ensure appropriate access to programs, services, facilities, and activities for students with special needs. The Special Needs Center provides services and support technologies that are tailored to the needs of individual students throughout their tenure at the University.

Currently, support services are provided to students with visual impairments (blindness or low vision), physical impairments, Dyslexia, anxiety, and social and hearing disabilities (who are not deaf but use hearing aids). The Center also caters to students who suffer from temporary disabilities.
or injuries. Some of the services and accommodations provided include academic testing accommodations, use of assistive technology, student note-takers/note taking technology, alternate text formatting for print materials; priority registration; and advocacy with faculty to assure appropriate academic accommodations.

For additional information on services offered by the Special Needs Center, please see: http://www.qu.edu.qa/students/services/special_needs/index.php
Admission to Qatar University

Applications from candidates who satisfy QU’s minimum admission requirements are considered for admission. The minimum admission requirements are based on a number of academic qualifications that will ensure students success during their course of study. In addition to these qualifications, admission takes into consideration the capacity of each college and program, as well as the needs of the local community. Students are admitted to QU for the semester of their application on a competitive basis.

High School Requirements

In general, QU may admit students who have completed a minimum of 12 years of formal education and who have graduated from accredited secondary school programs of study, according to the requirements indicated below. It is important to note that the high school requirements mentioned in this section may change according to the competitiveness of the applicant pool and the available capacity in each college. Additionally, each college may have different high school requirements and colleges do reserve the right to stipulate additional requirements to the admission minimums listed below before the applicant is considered for admission.

Qatar Secondary School Certificate

1. General Secondary Schools

The 12th grade final high school percentage is used when considering applicants from General Secondary Schools.

2. Independent Schools

Effective from the 2009/2010 academic year, graduates from Independent Schools are considered for admission according to the Qatar Secondary School Certificate (QSSC) on the basis of the total result for the final year of high school. Students obtaining the Independent Certificate prior to the 2009/2010 academic year will be considered on the basis of the Table of Score Equivalency in the respective academic year.

Private and International School Certificates

The more common high school equivalency requirements are listed below. Additional high school equivalency information is available from the Admissions Department.

1. Grade Point Average (GPA) System

A graduate of an American secondary/high school or a holder of an AP (Advanced Placement) certificate must have fulfilled the following conditions:

- Earned with a High School Diploma in a General Studies Curriculum with a minimum cumulative GPA of 2.00 on a 4.00 scale ("C") and satisfies the minimum high school percentage requirement during the final year of high school.
- Passed at least six different subjects, including at least one science (biology, physics, chemistry), one mathematics (algebra, trigonometry, geometry), and one English Language course during the Junior or Senior year.

2. British Secondary School Certificates

A student who has sat for one of the British Secondary School Examinations must have fulfilled the following requirements:

- Completed grade 12 or year 13, depending on the system from which the applicant has graduated.
- Passed at least six different subjects with a minimum grade of "D".
- Passed a minimum of two subjects at the Advanced (A) or (AS) level, or a combination of (A) and (AS) -level subjects with a minimum grade of "D".

3. International Baccalaureate (IB) Certificate

A student holding a full IB Diploma or an IB Course Certificate and who has passed six subjects, at least two of which must be at the HL and the other four at the SL level, is eligible for admission to QU. These subjects should include a second language, one mathematics, and one science. The student should have attained a total score of 24 out of 42, excluding grades for Theory of Knowledge (TOK) and Extended Essay.

4. KS A School System

In order to be considered for admission to Qatar University, applicants from the Kingdom of Saudi Arabia must complete High School and pass the National Exam for Assessment in Higher Education, achieving the minimum grade percentage required by their major/program of choice.

High School Percentage Exception

Applicants who do not satisfy the initial high school percentage requirements listed above may still apply to the college of their choice by completing 12 years of formal education and satisfying the minimum competency requirements:

- Embroidered with a High School Diploma in a General Studies Curriculum with a minimum cumulative GPA of 2.00 on a 4.00 scale ("C") and satisfies the minimum high school percentage requirement during the final year of high school.
- Passed at least six different subjects, including at least one science (biology, physics, chemistry), one mathematics (algebra, trigonometry, geometry), and one English Language course during the Junior or Senior year.

Universities Located in Qatar

All applicants who have attended a university within the State of Qatar and who wish to transfer to Qatar University must ensure that the following transcript requirements are met:

1. Transcript is final.
2. Transcript is official.
3. The transcript must be stamped and signed by an appropriate university official.
4. The university must be recognized by the Qatar Ministry of Education.

Universities Located Outside of Qatar

All applicants who have attended a university outside of Qatar must ensure that the following transcript requirements are met:

1. Transcript is final.
2. Transcript is official.
3. The transcript must be stamped and signed by an appropriate university official.
4. The university must be recognized by the Qatar Ministry of Education.

Undergraduate Application Categories

Applicants are offered undergraduate admission to Qatar University under one of the following six categories:

1. First Year Admission

All applicants who have never attended a university, or who have not earned at least 24 credit hours at a university, and are applying to Qatar University as either Foundation Program or Undergraduate applicants are classified as First Year applicants. First Year applicants...
may apply for either Fall or Spring admission and are required to submit the following:
• Complete Online Admissions Application with an e-payment of QR 200.
• Final and official high school transcript.
• Health Certificate issued inside Qatar.
• Photocopy of the applicant’s Qatar ID card (Non-Qatari applicants must also submit a copy of their passport).
• Two (2) recent identical passport size photographs with white background.

First Year undergraduate applicants must satisfy all undergraduate admission requirements for the semester of intended admission and must submit all appropriate application materials and supporting documents to the Admissions Department by the admission deadline. First Year admits are not eligible to receive transfer credit consideration unless their application is completed prior to their semester of admission to QU.

2. Transfer Admission
All applicants who are currently attending or have previously attended another university and have earned at least 24 credit hours and attended a minimum of two semesters (Fall and Spring), are considered transfer applicants, and may apply for transfer admission to the University. Transfer applicants may apply for either the Fall or Spring semester and are eligible for Undergraduate admission only.

All transfer applicants who meet the following minimum criteria will be considered for admission:
1. Earned a General Secondary School Certificate or its equivalent.
2. Have completed a minimum of 24 credit hours and attended at least two semesters (Fall and Spring) of undergraduate coursework with a cumulative grade point average of 2.50 or 4.00 at a university accredited by an international accrediting association or by the Ministry of Higher Education or equivalent authority in that country.
3. Met Qatar University’s English competency requirement by satisfying either of the following:
   • Submit official English test score reports taken within the last two years.
   • Two (2) recent identical passport size photographs with white background.

Undergraduate transfer applicants must satisfy all QU undergraduate transfer admission requirements for the semester of intended admission, and must submit all appropriate application materials and supporting documents to the Admissions Department by the admission deadline. Applicants who are subject to disciplinary action or non-academic dismissal at a prior university/collage may not apply or enroll as a transfer student.

Requirements for Transfer of Credit
Transfer credit may be considered for evaluation after passing the following criteria:
• Applicant has submitted the following required documents for transfer credit:
  1. Final, official and certified University transcript.
  2. Submitted required documents by the admission deadline.
• Applicant is not subject to disciplinary action or non-academic dismissal at a prior university/collage.

To be considered for admission to Qatar University under this articulation agreement, applicants must satisfy the following requirements:
1. Earned a General Secondary School Certificate or its equivalent.
2. Have completed a minimum of 60 credit hours of undergraduate coursework from CCQ with a minimum cumulative GPA of 2.50/4.00.
3. Have completed a minimum of 50% of required credit hours for their specific degree program to be maintained at Qatar University, but the credits will count toward the total number required for graduation.

TRANSFER FROM THE COLLEGE OF NORTH ATLANTIC – QATAR (CNA-Q)
Under a special articulation agreement, students who have completed an advanced diploma degree from the Community College of the North Atlantic – Qatar (CNA-Q) are eligible to seek admission to a limited number of Qatar University degree programs.

Requirements for Transfer from CNA-Q to Qatar University:
To be considered for admission to Qatar University under this articulation agreement, applicants must satisfy the following requirements:
1. Have earned a minimum cumulative GPA of 3.00 in any of the following CNA-Q advanced diploma degree programs:
   • Business Management (Accounting)
   • Business Management (Human Resource Management)
   • Business Management (Marketing)
   • Electrical Engineering Technology “power and controls”
   • Mechatronics Engineering Technology
   • Instrumentation Engineering Technology
   • Telecommunication Engineering Technology
   • Internet Applications Development
   • Programmer Analyst (Business)
   • Computer Support Specialist

2. Submitted required documents by the admission deadline.

To be considered for admission to Qatar University under this articulation agreement, applicants must satisfy the following criteria:
1. Complete Online Admissions Application with an e-payment of QR 200.
2. Final, official and certified CNA-Q transcript.
4. Photocopy of the applicant’s Qatar ID card (Non-Qatari applicants must also submit a copy of their passport).
5. Two (2) recent identical passport size photographs with white background.

CNA-Q articulation agreement applicants must satisfy all QU undergraduate admission requirements for the semester of intended admission and must submit all appropriate application materials and supporting documents to the Admissions Department by the admission deadline. Applicants who were subject to disciplinary action or non-academic dismissal at a prior university/collage may not apply or enroll as a transfer student.

To be considered for admission to Qatar University under this articulation agreement, applicants must satisfy the following criteria:
1. Complete Online Admissions Application with an e-payment of QR 200.
2. Final, official and certified CNA-Q transcript.
4. Photocopy of the applicant’s Qatar ID card (Non-Qatari applicants must also submit a copy of their passport).
5. Two (2) recent identical passport size photographs with white background.

CNA-Q articulation agreement applicants must satisfy all QU undergraduate admission requirements for the semester of intended admission and must submit all appropriate application materials and supporting documents to the Admissions Department by the admission deadline. Applicants who were subject to disciplinary action or non-academic dismissal at a prior university/collage may not apply or enroll as a transfer student.

To be considered for admission to Qatar University under this articulation agreement, applicants must satisfy the following criteria:
1. Complete Online Admissions Application with an e-payment of QR 200.
2. Final, official and certified CNA-Q transcript.
4. Photocopy of the applicant’s Qatar ID card (Non-Qatari applicants must also submit a copy of their passport).
5. Two (2) recent identical passport size photographs with white background.

CNA-Q articulation agreement applicants must satisfy all QU undergraduate admission requirements for the semester of intended admission and must submit all appropriate application materials and supporting documents to the Admissions Department by the admission deadline. Applicants who were subject to disciplinary action or non-academic dismissal at a prior university/collage may not apply or enroll as a transfer student.

To be considered for admission to Qatar University under this articulation agreement, applicants must satisfy the following criteria:
1. Complete Online Admissions Application with an e-payment of QR 200.
2. Final, official and certified CNA-Q transcript.
4. Photocopy of the applicant’s Qatar ID card (Non-Qatari applicants must also submit a copy of their passport).
5. Two (2) recent identical passport size photographs with white background.

CNA-Q articulation agreement applicants must satisfy all QU undergraduate admission requirements for the semester of intended admission and must submit all appropriate application materials and supporting documents to the Admissions Department by the admission deadline. Applicants who were subject to disciplinary action or non-academic dismissal at a prior university/collage may not apply or enroll as a transfer student.

To be considered for admission to Qatar University under this articulation agreement, applicants must satisfy the following criteria:
1. Complete Online Admissions Application with an e-payment of QR 200.
2. Final, official and certified CNA-Q transcript.
4. Photocopy of the applicant’s Qatar ID card (Non-Qatari applicants must also submit a copy of their passport).
5. Two (2) recent identical passport size photographs with white background.

CNA-Q articulation agreement applicants must satisfy all QU undergraduate admission requirements for the semester of intended admission and must submit all appropriate application materials and supporting documents to the Admissions Department by the admission deadline. Applicants who were subject to disciplinary action or non-academic dismissal at a prior university/collage may not apply or enroll as a transfer student.

To be considered for admission to Qatar University under this articulation agreement, applicants must satisfy the following criteria:
1. Complete Online Admissions Application with an e-payment of QR 200.
2. Final, official and certified CNA-Q transcript.
4. Photocopy of the applicant’s Qatar ID card (Non-Qatari applicants must also submit a copy of their passport).
5. Two (2) recent identical passport size photographs with white background.

CNA-Q articulation agreement applicants must satisfy all QU undergraduate admission requirements for the semester of intended admission and must submit all appropriate application materials and supporting documents to the Admissions Department by the admission deadline. Applicants who were subject to disciplinary action or non-academic dismissal at a prior university/collage may not apply or enroll as a transfer student. 
4. Applicants who were subject to disciplinary action or non-academic dismissal from a prior university/college may apply or enroll as a transfer student.
5. Submitted required documents by the admission deadline.

Transfer of Credit from CCQ:
Transfer credit may be considered for transfer credit evaluation if it passes the following criteria:
• A minimum grade of C is needed for any credit hours submitted for transfer credit evaluation, and must have been completed within the last 5 years.
• Submitted with official and certified CCQ transcript
• A maximum of 50% of required credit hours for submitted programs to be considered for transfer credit evaluation;
the colleges will individually determine the exact number of credit hours that may be transferred and applied towards their specific programs.
• Grades and quality points earned in courses accepted for transfer will not be included in the grade point average to be maintained at Qatar University, but the credits will count toward the total number required for graduation.

3. Visiting Students
Applicants who are currently attending another university and who do not intend to graduate from Qatar University may be considered for admission as a Visiting Student. Visiting admission is available for the Fall, Spring and/or Summer semesters. Non-degree students and visiting students may register in a maximum of 48 credit hours or 4 semesters of course work at Qatar University, whichever comes first. All students must meet the following minimum criteria will be considered for admission to Qatar University:
1. Have earned a minimum cumulative GPA of 2.00. Applicants who have been admitted to a university for a future semester and who wish to take classes at QU before enrolling at that university are required to provide a copy of their admission letter in lieu of an official university transcript.
2. Must submit all appropriate application requirements to the Admissions Department by the admission deadline.

In all cases, the home university must be accredited by an international accrediting association or by the Ministry of Higher Education or equivalent in that country. The student must submit all appropriate application requirements to the Admission Department by the admission deadline.

Visiting Admission Requirements
All visiting applicants are required to submit the following documents to the Admissions Department:
• Complete Online Admissions Application With an e-payment of QR 200
• Official and certified university transcript or letter of admission to their home university if not yet enrolled.
• Health Certificate issued inside Qatar.
• Photocopy of the applicant's Qatar ID card (Non-Qatari applicants must also submit a copy of their passport)
• Two (2) recent identical passport size photographs with white background.

Undergraduate visiting applicants must satisfy all QU undergraduate visiting admission requirements for the semester of intended admission and must submit all appropriate application materials and supporting documents to the Admissions Department by the admission deadline.

Visiting students may apply for transfer admission to Qatar University. To be considered for transfer admission to Qatar University, applicants must satisfy the following requirements:
1. Have completed a minimum of 24 credit hours of undergraduate coursework in residence at Qatar University with a minimum cumulative GPA of 2.00.
2. Met Qatar University’s English and Mathematics competency requirements as required by the College.
3. Submitted required documents by the Admission Department by the admission deadline.

Undergraduate visiting applicants must satisfy all QU undergraduate admission requirements for the semester of intended admission and must submit all appropriate application materials and supporting documents to the Admissions Department by the admission deadline.

All non-degree applicants are required to submit the following documents to the Admissions Department:
• Complete Online Admissions Application with an e-payment of QR 200
• Final, official and certified university transcript
• Health Certificate issued inside Qatar.
• Photocopy of the applicant's Qatar ID card (Non-Qatari applicants must also submit a copy of their passport)
• Two (2) recent identical passport size photographs with white background.

Non-degree applicants must satisfy all QU undergraduate admission requirements for the semester of intended admission, and must submit all appropriate application materials and supporting documents to the Admissions Department by the admission deadline.

At Qatar University, non-degree students may apply coursework taken during a non-degree status towards a second bachelor’s degree. Non-degree students may apply a maximum of 48 undergraduate credit hours earned at Qatar University in courses passed with a grade of “D” or higher toward a second bachelor’s degree. All second bachelor’s degree requirements apply.

Second Bachelor’s Degree
A student who has previously earned a bachelor’s degree and wishes to pursue further undergraduate work in a different major, may apply for admission to a second bachelor’s degree at Qatar University.

All applicants seeking a second bachelor’s degree who meet the following minimum criteria will be considered for admission to Qatar University:
1. Earned a previous degree with a minimum cumulative GPA of 2.00/4.00 from a university accredited by an international accrediting association or by the Ministry of Higher Education or equivalent in that country.
2. Met Qatar University’s English competency requirements by satisfying either of the following:
   • Official English test score results taken within the last two years.
   • Earned a previous undergraduate degree from an institution of higher education in a program where English was the primary medium of instruction. Official statement proving this must be submitted at the time of application in order for exemption to be considered.

Applicants who do not satisfy these competency requirements are not eligible for Foundation Program admission.

3. Met Qatar University’s Mathematics competency requirements. Applicants who do not satisfy these competency requirements are not eligible for Foundation Program admission.

4. Pursue a program different than was earned in the first bachelor’s degree.

Required Documents:
- All second bachelor’s degree applicants are required to submit the following documents to the Admissions Department:
  • Complete Online Admissions Application with an e-payment of QR 200
  • Final, official and certified university transcript
  • Official English and Mathematics competency test scores as required by the College.
  • Health Certificate issued inside Qatar.
  • Photocopy of the applicant’s Qatar ID card (Non-Qatari applicants must also submit a copy of their passport)
  • Two (2) recent identical passport size photographs with white background.

- The Qatar University cumulative Grade Point Average (GPA) and earned credit hours will be assessed continuously through the period of study of the student at the Undergraduate level. Qatar University will assess appropriate tuition and associated fees for all stu

RE-ADMISSION
Re-admission to Qatar University is competitive and considers the academic qualifications of applicants, as well as the capacity of each college and department for the intended semester of admission. Applicants seeking re-admission must satisfy all undergraduate admission requirements for the semester of intended admission and must submit all appropriate application materials to the Admissions Department by the admission deadline.

Academically Dismissed Students
Students who are academically dismissed from Qatar
University may seek re-admission by satisfying QU’s transfer admission requirements. Courses and grades earned prior to the student’s academic dismissal will remain on the QU transcript but the student’s attempted hours, earned hours, and cumulative grade point average will start fresh upon re-admission. Re-admitted students may be considered for possible transfer credit according to QU’s transfer credit rules.

Termination of Admission

Students admitted to Qatar University who are not registered in classes by the end of the Drop/Add period for the semester of their admission are considered terminated students, resulting in their admission being revoked and their admission file destroyed. Terminated students who wish to attend Qatar University in a future semester will need to re-apply for admission.

COMPETENCY REQUIREMENTS

All students are expected to possess minimum basic skills in order to be eligible for enrollment in their desired academic programs. In order to be considered for undergraduate admission to Qatar University, only applicants applying to the following colleges must demonstrate proficiency in English and Mathematics, by satisfying the following minimum competency requirements as set by the University or pass the Foundation Program:

1. College of Arts and Sciences (Science track only)
2. College of Education (Secondary Education with concentrations in Mathematics and Sciences only)
3. College of Engineering
4. College of Pharmacy

1. English Competency

<table>
<thead>
<tr>
<th>Tests</th>
<th>Minimum Score for Exemption</th>
</tr>
</thead>
<tbody>
<tr>
<td>Test of English as a Foreign Language (TOEFL)</td>
<td></td>
</tr>
<tr>
<td>Paper Based (pBT)</td>
<td>500</td>
</tr>
<tr>
<td>Internet Based (iBT)</td>
<td>61</td>
</tr>
<tr>
<td>Computer Based (cBT)</td>
<td>173</td>
</tr>
<tr>
<td>International English Language Testing System (IELTS)</td>
<td>5.5</td>
</tr>
</tbody>
</table>

2. Mathematics Competency

<table>
<thead>
<tr>
<th>Standardized Test</th>
<th>Minimum Score for Exemption</th>
</tr>
</thead>
<tbody>
<tr>
<td>Scholastic Aptitude Test (SAT)</td>
<td>500</td>
</tr>
<tr>
<td>(General Math component)</td>
<td></td>
</tr>
<tr>
<td>American College Test (ACT)</td>
<td>21</td>
</tr>
<tr>
<td>ACCUPLACER Math- APL</td>
<td>82</td>
</tr>
<tr>
<td>Elementary Algebra</td>
<td>82</td>
</tr>
</tbody>
</table>

- Foundation Program reserves the right to verify any standardized test score and retest students.
- A test score is no longer valid if it is older than the validity period from the start of the first day of the class. Students with scores older than the validity period should retake the test. SAT and ACT scores are valid for 5 years. Students with IELTS/TOEFL scores older than 2 years must re-take the required test to validate the scores.
- Applicants who fail to satisfy the minimum English and Mathematics competencies identified above will be considered for admission to the Foundation Program and will be placed in their relevant levels based on their English and Math ACCUPLACER test scores.

ADMISSION DATES AND DEADLINES

Admission into the incoming class is both extremely competitive and limited. Therefore, applicants are strongly encouraged to submit their applications and all required documentation as early as possible. Qatar University will not accept applications after the published application deadline. A comprehensive listing of admission application deadlines can be found on the Qatar University website at: www.qu.edu.qa .

STUDENT CLASSIFICATION

Students are classified according to the following categories:

1. Regular Degree-Seeking Students

Regular students are those admitted to an academic program at QU that leads to a degree.

Regular full-time students are expected to maintain a minimum load of 12 credit hours per semester.

2. Visiting and Non-Degree Students

Visiting and non-degree students are not classified as regular degree-seeking, as their admission status does not allow them to earn a degree from QU. Visiting and non-degree students may register in a maximum load of 18 credit hours per semester. Visiting and non-degree students are held to the same academic and Student Code of Conduct standards as all other degree-seeking students at Qatar University. All University coursework is applied to the academic record of the student, and remains on the transcript. If a visiting or non-degree student is dismissed from Qatar University, this dismissal is permanent and the student is not eligible to return to Qatar University at any point in the future.

NEW STUDENT ORIENTATION

New Student Orientation is a full-day event designed to assist new Foundation Program and Undergraduate students in becoming familiar with the exciting and challenging opportunities that Qatar University offers, such as its programs, services, academic advisement, career services, campus life, registration process, and social services.

Throughout the orientation day activities, students will be organized into smaller college groupings, allowing them to become familiar with their academic program and to better connect with their college peers and academic advisors. Advisors will be an important resource for students, and will meet with them to review their academic record and placement test results, and make recommendations regarding appropriate courses that the student needs to register for during each semester.

Attendance at the New Student Orientation is mandatory for all new Foundation Program and undergraduate students. Students who fail to attend their assigned orientation day may not be able to attend Qatar University and will need to re-apply for admission in a future semester.
CHAPTER 5
TUITION, FINANCIAL AID, AND ACADEMIC SCHOLARSHIPS

TUITION FEES

Foundation Program and Undergraduate Students
Tuition fees at QU are based on the academic major (e.g., science, business, engineering, etc...) of the course in which the student is registered. The fee payable for a given course will be the same for all students registered in the course, irrespective of their major area of study, and according to the schedules shown in this section. Qatari students are exempted from tuition fees unless explicitly expressed under certain conditions. Tuition-exempted students are required to pay tuition fees for all courses they repeat beyond 12 credit hours. Tuition fees are due prior to the first day of classes.

<table>
<thead>
<tr>
<th>Course Major</th>
<th>Tuition Fees per credit hour in QR</th>
</tr>
</thead>
<tbody>
<tr>
<td>Art</td>
<td>400</td>
</tr>
<tr>
<td>Education</td>
<td>400</td>
</tr>
<tr>
<td>Law</td>
<td>400</td>
</tr>
<tr>
<td>Shari’a and Islamic Studies</td>
<td>400</td>
</tr>
<tr>
<td>Business</td>
<td>500</td>
</tr>
<tr>
<td>Foundation Program</td>
<td>500</td>
</tr>
<tr>
<td>Science</td>
<td>500</td>
</tr>
<tr>
<td>Engineering</td>
<td>600</td>
</tr>
<tr>
<td>Pharmacy</td>
<td>600</td>
</tr>
</tbody>
</table>

*Tuition fees listed above are effective for students admitted since Fall 2009. Students admitted in prior semesters may be assessed differently.

Diploma Level Students
Tuition fees for students enrolled in any Diploma Program are QR 1,000 per credit hour.

Master Level Students
Tuition fees for students enrolled in any Master’s Program are QR 1,250 per credit hour.

Doctorate Level Students
Tuition fees for students enrolled in any Doctorate Program are QR 1,250 per credit hour.

Students enrolled in the Arabic for Non-Native Speakers Program
Tuition fees for students enrolled in the Arabic for Non-Native Speakers Program are QR 600 per credit hour.

Tuition Exemption
Qatari and tuition-exempted students are relieved from Foundation Program and Undergraduate tuition fees unless explicitly expressed under certain conditions. Qatari and exempted students who do not complete their bachelor’s degree requirements by the following credit hour limits will be assessed tuition fees for all additional credit hours taken until graduation:

<table>
<thead>
<tr>
<th>Student’s Category</th>
<th>Credit Hour Limit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Undergraduate students</td>
<td>Graduation with a maximum of one major and one minor + 12 credit hours.</td>
</tr>
<tr>
<td>Students who changed their major and minor after being admitted at the Undergraduate level</td>
<td>Minimum credit hours required for graduation in the declared major and minor, if any + 12 credit hours.</td>
</tr>
<tr>
<td>Transfer students</td>
<td>Credit hours remaining (beyond the transferred credit) for one major and one minor (if any) + 12 credit hours.</td>
</tr>
</tbody>
</table>

Tuition fees for Qatari students attending part-time are QR 100 less per credit hour than the amounts shown above.
Tuition Fees Refund Policy
Students who drop one or more courses, or withdraw from the semester after the add and drop period, are subjected to the penalties shown in the following table.

<table>
<thead>
<tr>
<th>Semester</th>
<th>Time of Drop or Withdrawal after End of Add/ Drop Period</th>
<th>Penalty</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall and Spring</td>
<td>Up to 2 weeks</td>
<td>20%</td>
</tr>
<tr>
<td>Semester</td>
<td>and up to 4 weeks</td>
<td>50%</td>
</tr>
<tr>
<td></td>
<td>After 4 weeks</td>
<td>75%</td>
</tr>
<tr>
<td></td>
<td>and up to 8 weeks</td>
<td>100%</td>
</tr>
<tr>
<td>Summer Semester</td>
<td>Up to 1 week</td>
<td>20%</td>
</tr>
<tr>
<td></td>
<td>After 1 week and up to 2 weeks</td>
<td>50%</td>
</tr>
<tr>
<td></td>
<td>After 2 weeks</td>
<td>100%</td>
</tr>
</tbody>
</table>

- If a full week falls within an official holiday, it is not counted in the weeks shown in the above table.
- Penalties shown in the above table apply to both tuition-paying and tuition-exempted students.

OTHER UNIVERSITY FEES
Lockers
University lockers are available at a rate of QR 25 per semester; no refund is available.

Campus Card
Student ID cards require a fee of QR 50. This fee will be required again for replacement in the event that card is damaged or lost.

University Housing
Students living in the student accommodation facilities provided by the University are charged QR 800 per month for room and board, as well as transportation to and from the university. This is a non-refundable charge.

University Transport
Transportation provided from home to university is available at a rate of QR 700 per semester for female students. This is a non-refundable charge.

Financial Aid
Qatar University provides a variety of financial aid options to students. These programs are available to students whose financial situation may prevent them from continuing their university education. For additional information regarding financial aid, please contact the Financial Aid Section by e-mail at studentfund@qu.edu.qa, or visit their website at: http://www.qu.edu.qa/students/services/financial_aid/index.php.

Textbook Section
The Textbook Section assumes responsibility for selling textbooks and eBooks to QU students and faculty. The University provides a subsidy equaling 50% of the total price for books over QR 50, and the payment non-refundable. The section announces a book selling table before each semester, which is made available to students and faculty. For more information, please see: http://www.qu.edu.qa/students/services/textbooks/index.php.

SCHOLARSHIPS
Qatar University offers numerous scholarships to attract and support academically qualified students. Although scholarships are granted on a competitive basis, QU does consider financial need when considering scholarship awards. All scholarships cover tuition fees; however, some scholarships may also include one or more of the following:
- Accommodation in university housing and transportation to and from the campus.
- Annual ticket to the home country for non-resident students in Qatar.

Scholarship Types
The following competitive and non-competitive academic scholarships are offered by Qatar University:

Undergraduate Scholarships:

GCC Countries
These scholarships are awarded to GCC nationals who earn their Qatari secondary certificate or equivalent from a country other than the State of Qatar. Certain GCC scholarship recipients may be nominated through their embassies.

GCC Students
These scholarships are awarded to children of Qatari mothers married to GCC nationals, or female GCC students married to Qatari nationals.

Qatari National’s Children
These scholarships are allocated for non-Qatari students of a Qatari mother or a Qatari father. Recipients of these scholarships are only exempted from tuition fees and there are no other benefits.

H.H. Emir Scholarship for Academic Excellence
These scholarships are awarded on a competitive basis to 10 male and 10 female students of expatriates residing in Qatar.

Islamic and Other Countries
These scholarships are available to students from the Islamic world and countries other than those of the GCC.

Outstanding Performance
These scholarships are awarded to QU students who have shown outstanding academic performance in their course work at QU.

Qatar Inhabitants
These scholarships are granted to bearers of the Qatari inhabitant document (Qatar inhabitants).

Short Arabic Language (for Arabic Non-Native Speakers)
Granted to students enrolled in the Arabic for Non-Native Speakers program.

In order to maintain a scholarship award, students must satisfy the minimum GPA and academic load requirements of the scholarship. Additionally, most scholarship awards are of a fixed award duration which may vary by scholarship type. Scholarship recipients are bound by all QU rules and regulations, and are responsible for all financial penalties incurred.

For additional information regarding academic scholarships, please contact the Scholarship Section by e-mail at scholarships@qu.edu.qa or visit their website at: http://www.qu.edu.qa/students/admission/scholarships/index.php.
CHAPTER 6
ACADEMIC INTEGRITY
STUDENT INTEGRITY CODE

Universities are unique communities committed to creating and transmitting knowledge. They depend on the freedom of individuals to explore ideas and advance their capabilities. Such freedom, in turn, depends on the good will and responsible behavior of all members of the community, who must treat each other with tolerance and respect. They must allow each other to develop to the full range of their capabilities and take full advantage of the institutions’ resources.

The Student Integrity Code aims at providing all students at QU with clear standards of behavior. By registering as a student, all students acknowledge their awareness and knowledge of the student integrity code and its procedures. Moreover, they understand the consequences of their violation of these standards; violations may be of an academic or non-academic nature.

Students attending an off-campus event as representatives of the University (such as conferences, or athletic teams or engaging in club activities) are subject to this code. QU expects its students to adopt and abide by the highest standards of conduct in their interaction with their professors, peers, staff members and the wider University community. Moreover, QU expects its students to act maturely and responsibly in their relationships with others. Every student is expected to assume the obligations and responsibilities of membership required by the QU community. As such, a student is expected not to engage in behaviors that compromise the integrity of themselves, as well as that of QU. While the University encourages its students to express themselves freely, this freedom is forfeited when it infringes on the rights and respect of others. Specifically, a student is expected to abide by the principles within the academic and non-academic domains as outlined below.

STUDENTS’ RIGHTS AND RESPONSIBILITIES

Student Rights
QU recognizes the rights of its students to include:
- Access to the academic and non-academic opportunities available to them at the University, providing such opportunities fall within the standards and/or requirements adopted by the University.
- Freedom of thought and expression, subject to applicable policies, rules and laws adopted by the University.
- Equal opportunities regardless of race, color, gender, religion, ethnicity, age or disability.
- A fair University judicial process whenever applicable.
- The student’s university records are kept confidential and are not disclosed to other parties unless the student provides explicit written consent, with the exception of authorized persons as stated in section “Confidentiality of Student Records”.

Student’s Responsibilities
QU students should:
- Contribute to maintaining a safe and orderly University educational environment.
- Show respect to other individuals at QU; students, staff and visitors.
- Be familiar with and abide by all students bylaws, policies and procedures.
- Work to the best of their ability in all academic pursuits.
- Behave in a responsible manner.
- Pursue knowledge.
- Dress appropriately and according to the University rules and regulations in this regard.
- Accept responsibility for their actions.

JURISDICTION

All charges involving any violation of the Student Integrity Code will be transferred to the Vice President for Student Affairs (VP SA) for recording purposes and to determine appropriate action in consultation with concerned parties when the need arises.

DEFINITIONS OF ACADEMIC AND NON-ACADEMIC VIOLATIONS

Academic violations include, but are not limited to, the following:

- Plagiarism
  Plagiarism includes the following examples and it applies to all student assignments or submitted work: use of the work, ideas, images or words of someone else without his/her permission; use of someone else’s wording, name, phrase, sentence, paragraph or essay without using quotation marks, and misrepresentation of the sources that were used.

- Inappropriate Collaboration
  Inappropriate Collaboration includes the following examples: working with someone else in developing, organizing or revising a submitted work without acknowledging that person’s help. This work may include: projects, papers, oral presentations, research, design projects or take-home examinations, use of tutors for writing, editing or fabricating a submitted work, and use of unauthorized assistance in all cases of submitted work.
Inappropriate Proxy
Inappropriate Proxy is the state in which a student attends any academic activity or obligation in replace- menter of another student.

Dishonesty
Dishonesty in examinations and submitted work may include the following forms: Submission of non-original paper, test result, work, and materials; any form of commu- nication between or among students during examination; cheating from another student during examination; copying from another’s paper, giving unauthorized assistance, obtaining unauthorized advance knowledge of examination questions, and the use of mechanical or marking devices or pre-existing papers for the purpose of obtaining false scores on machine-graded examinations; submitting any material prepared by or purchased from another person or com- munity.

Work completed for one course and submitted to another In general, any work for one course should not be present- ed as another’s work. If students are reminded that when incorporating their own past research in current projects, they must refer to such previous work.

Deliberate falsification of data It involves the deliberate act of falsifying any kind of data or (manipulating) distorting any supporting documentation for a course work or other academic activity.

Complicity in academic dishonesty Complicity in academic dishonesty means helping or attempting to assist a student to commit an act of academic dishonesty, such as doing work for another student; designing or producing a project for another student; helping with unauthorizing an exam or quiz; copying a student on a mobile device while taking an exam and providing information; providing a student with an advance copy of a test; leaving inappropriate materials behind at the site of an exam or test and altering outcome results.

Interference with other students’ work It involves the intentional interference with the work of other students; sabotaging another student’s test, laboratory ex- periments, research or digital files; and giving any misleading information or disrupting other students’ class work.

Intellectual Property (IP) violations Respect for original intellectual creativity is vital to aca- demic discourse. This principle applies to works of all authors and publishers in all forms. This encompasses re- spect for the right to acknowledgement; the right to privacy and recognition of intellectual property, and the right to intellectual property.

Adjudication of offenses
Categories result from alleged violations of the student integrity code. Categories are assigned by the student’s faculty advisor, department head, Dean of the College, and the Vice Presi- dent for Student Affairs. A student who will consult with the Student Judiciary Committee (SJC), a university-wide committee to investigate cases of violations. The mandate of the Student Judiciary Committee is to advise the Vice-President for Stu- dent Affairs on individual cases with respect to academic or non-academic violation of the integrity code. The commit- tee, in conducting its business, will observe: a) The concepts of procedural fairness; and b) The existing QU Student Integrity Code.

This will be accomplished by considering the facts of each specific case, interpreting the preceding deliberations to ensure that the procedures were consistent with QU policy. In cases of academic offenses, if they are not resolved by the faculty member or within the department, the Dean of the College in which the alleged academic offense took place will meet with the student and faculty member to investigate these cases. However, academic offenses which may lead to a student’s dismissal from the University should be forwarded to the Vice President for Student Affairs, who shall communicate the decision to the Vice President and the Dean Academic Officer and President of the University for taking the decision. The ultimate deci- sion to dismiss a student from the University lies within the jurisdiction of the University President.

DISCIPLINARY ACTIONS
A student is advised that violations of the Student Integrity Code will be treated seriously, with special attention given to cases of disruption or destruction of college property. A notation of the offense is placed in the student’s permanent record. Penalties for violations of QU rules and regulations, and for acts of student misconduct may include one or more of the following:

Category One
• Resubmission of work assigned by the faculty member.
• Students may be required to complete an additional work for the course in which the offense occurred.
• A lowered grade or loss of credit for the work found to be in violation of the integrity code.
• A failing grade of (F) or (WF) or denial of credit for the work found to be in violation of the integrity code.
• A lowered grade or loss of credit for the work found to be in violation of the integrity code.
• A lowered grade or loss of credit for the work found to be in violation of the integrity code.
• A lowered grade or loss of credit for the work found to be in violation of the integrity code.

Category Two
• University Service: A student may be required to do a number of service hours, on or off campus, such as the maintenance of College / University property and/or clerical work.
• Loss of student employment eligibility and/or merit scholarship.
• Restitution or reimbursement for the University for any dam- age or misappropriation of University property.
• Restriction by exclusion from participation in social activities which includes but not limited to being prohibited from: representing QU in any official activity or event be it cultural or athletic; entering any of university facilities; or serving as an officer of any students’ organizations.
• Warning: It is an official written notice that the student’s behavior violates the Student Integrity Code; that the action or behavior must cease; and that further miscon- duct shall result in additional disciplinary action.
• Probation: Disciplinary probation is a formal notice, af- fecting the non-academic status of the student that the student’s behavior is under review by Academic Offi- cers.

Category Three:
• Exclusion from academic privileges including Dean’s List and Honors.

Procedures and Guidelines
The following procedures are to be followed in case of academic offenses by students:

1. The immediate responsibility for dealing with instances of academic dishonesty, plagiarism, disruption in classroom and other forms of misconduct lies with the faculty member. In any case of an academic offense committed by a student, the faculty member should refer the student to the VPSA. This action will allow the University to monitor and record multiple cases of students’ offenses at the University level.

2. In the case that a faculty member is convinced that the alleged offense has resulted from the student’s part rather than an intended dishonesty, the faculty member should instruct the student for an accept-
Implement the dean of the college in which the student is enrolled to correct the original work or assignment or to resubmit a substitute work or assignment.

3. The faculty member who is reporting an allegation of dishonesty must report such action within 3 working days of the date of occurrence or discovery of the alleged offense. The form Offense Record Form should be forwarded to the VPSA and the Department Head in which the alleged offense took place.

4. Based on the level of severity of the alleged offense and after consultation with the faculty member concerned, the Department Head records his/her opinion (on the form) after meeting with both the faculty member and the student.

5. The form is then forwarded to the Dean of the College for either the final decision, or to be forwarded to the Vice President for Student Affairs. At the college level the Dean’s decision must be based on the recommendations given by The College Student Affairs Committee whose members are elected at the beginning of the academic year. Members of this committee serve for two years and they include the Associate Dean of Student Affairs of the college, one or two elected faculty member(s) depending on the enrollment number in the college, and a student.

6. Recommendations for disciplinary actions of the first category (refer to previous section) may be approved and implemented by the dean of the college in which the student is enrolled. Significant cases and those that require second and third category actions should be referred to the Vice President of Student Affairs for further review by the Student Judiciary Committee.

SCOPEDISCIPLINARY ACTIONS

Records of the violation and disciplinary actions—charges and sanctions will be maintained as part of the confidential records in the office of the VPSA and the respective dean of the college for a period of two years after the student graduates or ceases to be a student. Suspension and expulsion charges will become part of the student’s official transcript of record.

ACADEMICCOMPLAINTS

Academic disputes may include, but are not limited to: admission, grades during the academic semester, academic suspension, charges of dishonesty, plagiarism, deliberate forgery of data, or ceasing to be a student. The concerned party should fill out a non-academic offense record form within three days of the occurrence of the incident.

INFORMAL RESOLUTION

The student should first try to resolve the grievance informally by discussing the grievance with the faculty member as soon as the student is aware of the matter. If the student and faculty member were not able to reach an agreement, the student should discuss the complaint with the faculty member’s department head or dean. If the complaint remains unresolved, the student should discuss it with the College Dean. In these informal discussions, the department head or dean is encouraged to mediate the dispute. In particular he/she should talk to both the student and the faculty member, separately or together, and should examine any relevant evidence, including any documentation the parties wish to submit. If the student objection is against the department head or the dean, the student should discuss it with one administrative level higher than that of the department head.

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FORMAL RESOLUTION

1. Submit the official online application through myBanner within ten (10) business days of the incident outlining the complaint, the individuals involved, the date and the location of the incident. The student will be informed of the decision by mail within ten (10) business days of the complaint’s submission. Note that this process is confidential.

2. If the student is not satisfied with the outcome, he/she has the right to appeal the decision within ten (10) business days of the date of the appeal. The result of the appeal will be e-mailed to the student within ten (10) business days of submitting the appeal.

3. In all cases, if the student does not receive a formal response within ten (10) business days of the complaint/appeal submission, he/she should consider the request rejected.

4. In cases where the student believes that the procedures were not properly followed, he/she has the right to appeal the decision to the Vice President for Student Affairs. The appeal must be filed within ten (10) business days of the date of the decision. The Vice President for Student Affairs shall review all documents related to the complaint, appeal, and decision.

5. If all documents related to the complaint, appeal, and decision shall be kept at the Office of Vice President for Student Affairs.

NON-ACADEMIC COMPLAINTS

Non-academic issues may include, but are not limited to: harassment (verbal or physical), intimidation, disruptive or abusive behavior within the limitations of QU campus, fines, exclusion from a use of service, discrimination, record access, and violation of policy.

SCOPE

This section sets forth the procedures which should be followed by a student who believes that he/she has been unfairly or improperly treated by a member of the University community with regard to a non-academic matter.

INFORMAL RESOLUTION

The student should first try to resolve the complaint informally by discussing the grievance with the faculty member as soon as the student is aware of the matter. If the student and faculty member were not able to reach an agreement, the student should discuss the complaint with the faculty member’s department head or dean. If the complaint remains unresolved, the student should discuss it with the College Dean. In these informal discussions, the department head or dean is encouraged to mediate the dispute. In particular he/she should talk to both the student and the faculty member, separately or together, and should examine any relevant evidence, including any documentation the parties wish to submit. If the student objection is against the department head or the dean, the student should discuss it with one administrative level higher than that of the department head.

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5. If all documents related to the complaint, appeal, and decision shall be kept at the Office of Vice President for Student Affairs.

NOTIFICATION OF OUTSIDE PARTIES

When deemed appropriate, the University reserves the right to notify a student’s parents or guardians at any time during a disciplinary process.
CHAPTER 7
ACADEMIC POLICIES AND REGULATIONS

REGISTRATION

Once admitted to QU, students must select and register in courses required for their degrees. Registration for classes takes place prior to the beginning of every semester. Students are assisted by academic advisors to ensure that they have registered for the appropriate courses for each semester. Students should check with their advisors before registering. The following information identifies the steps and requirements necessary for a successful course registration process.

Methods of Registration

Students should register for courses online through their myQU portal after consulting with their academic advisor. In order to access the myQU portal, new students must use their username and password information as provided in their admission letter. Upon successful registration, students can view their schedule of courses, classroom locations, meeting times, and faculty assignments for all registered courses. Students experiencing difficulty accessing their myQU portal should contact the ITS Help Desk by e-mail at helpdesk@qu.edu.qa.

Important Registration Information

Students are responsible for their own registration. They are only officially registered in a course when the course appears on their myQU schedule. It is sometimes necessary for an academic department or college to make changes to its class schedule, such as a change of class time, location, instructor, merging sections, or even canceling a course. Departments will make every effort to announce such changes in advance; however, it is the student’s responsibility to follow up their registration status according to such changes. The first week of classes in the semester is allotted for this purpose. Changes to a student’s registration are not permitted beyond the last date for the drop and add period.

A student is allowed to pre-register for a course whose prerequisite(s) have not yet been completed, on the assumption that a student will pass the prerequisite course(s) during the semester in which the pre-registration takes place. If the student fails in any pre-requisite course(s), the Registration Department will drop, without notification, all the courses pre-registered by the student. Consequently, students are responsible for checking their final grades to make sure that they have successfully completed the prerequisite(s) and that they are successfully registered for the courses selected for the following semester. If a student is not allowed to register for a course because of failing or dropping a prerequisite course, it is the student’s responsibility to ensure that the course load does not fall below the minimum number of credit hours allowed. Dates for pre-registration and registration are determined by the University and stated in each year’s academic calendar. These dates are communicated to the University community and updated regularly on the University’s web site.
The minimum and maximum number of credit hours allowed per semester is as follows:

<table>
<thead>
<tr>
<th>Semester</th>
<th>Academic Standing</th>
<th>Level</th>
<th>Type of Study</th>
<th>Academic Load (per credit hour)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Undergraduates</td>
<td>Full Time</td>
<td>Min 18 Max 18</td>
</tr>
<tr>
<td>Fall and Spring</td>
<td>Good Standing</td>
<td>Foundation</td>
<td>Full Time</td>
<td>0 15</td>
</tr>
<tr>
<td></td>
<td>(2.00 and above)</td>
<td>Undergraduates</td>
<td>Part Time</td>
<td>1 11</td>
</tr>
<tr>
<td></td>
<td>Academic probation</td>
<td>Undergraduates</td>
<td>Full Time</td>
<td>9 12</td>
</tr>
<tr>
<td></td>
<td>(less than 2.00)</td>
<td>Undergraduates</td>
<td>Part Time</td>
<td>0 9</td>
</tr>
<tr>
<td>Summer</td>
<td>Good Standing</td>
<td>Undergraduates</td>
<td>Full Time</td>
<td>Min 18 Max 18</td>
</tr>
<tr>
<td></td>
<td>(2.00 and above)</td>
<td>Undergraduates</td>
<td>Part Time</td>
<td>0 6</td>
</tr>
<tr>
<td></td>
<td>Academic probation</td>
<td>Undergraduates</td>
<td>Full Time</td>
<td>0 6</td>
</tr>
</tbody>
</table>

New students at the University will be allowed to register for the maximum number of credit hours allowed by their program. Students who achieve a cumulative 3.50 GPA based on 15 credit hours or more will be allowed to increase their course load by 1-3 credit hours. A student expected to graduate by the end of a given semester may register, in that semester, for fewer than the minimum number of credit hours stipulated in the course loads shown above.

Dropping and Adding Courses:
A student may drop or add courses only during the designated period for drop/add. This period is determined by the University, and specified in the academic calendar and updated on the University website. A course that is dropped before the drop deadline will not appear on the student’s transcript.

Prerequisites:
When a student attempts to register for a course, the registration system will check the request against the student’s academic record. If the student has not satisfied the prerequisite, the student will be prevented from registering for the course. Students should contact their program director regarding prerequisite discrepancies.

Registration Holds:
Students with registration holds will not be allowed to register for classes until the hold is removed. The student should contact the department that placed the hold for a solution.

Withdrawal from a Course:
After the regular drop/add period at the beginning of each term, a student may withdraw from one or more courses only during the end of the eighth week of the semester, provided that the total number of credit hours carried does not fall below the minimum credit hour requirement of the program. This withdrawal period results in differing refund rates. Students are encouraged to consult the University academic calendar for specific dates. If a student withdraws from a course during the withdrawal period, the grade of “W” is entered on the student’s transcript.

Withdrawal from the Semester:
Withdrawal from a semester from (all courses) requires the approval of the student’s academic advisor and the Department Head. A student on academic probation will not be allowed to withdraw from the semester without providing a compelling reason. Withdrawal from a semester must be within the time limit set by the academic calendar. A student cannot withdraw from QU for more than four semesters; the exception to this policy could be a study adjournment (for emergency reasons). If a student withdraws from a semester, he/she must re-enroll before registering for the following semester. The Vice President for Student Affairs may grant exceptions to this regulation in extenuating circumstances.

Withdrawal from the University:
A student may apply for withdrawal from the University by contacting the Registration Department. Enrollment will be suspended and earned grades will be maintained in the student’s record given that the student has completed at least one semester. The maximum period for which a student can leave the University must not exceed four semesters.

RE-ENROLLMENT:
A student who withdraws from the University without approval, must re-enroll before being allowed to register. Re-enrollment may be pursued by contacting the Registration Department before the deadline specified in the academic calendar. The decision to proceed with a re-enrollment request is determined by the Registration Department, in consultation with the Director of Admissions, the Department Head, and the Dean of the College in which the student wants to re-enroll. A student seeking re-enrollment after an absence of two consecutive semesters may be required to re-enroll, according to the policies or the rules of the degree prevailing at the time of re-enrollment. Passed credit hours taken before withdrawal from QU may upon request of the student, be considered towards the completion of the degree prevailing at the time of re-enrollment. A student who withdraws from the University without approval, must re-enroll before being allowed to register. Re-enrollment may be pursued by contacting the Registration Department before the deadline specified in the academic calendar. The decision to proceed with a re-enrollment request is determined by the Registration Department, in consultation with the Director of Admissions, the Department Head, and the Dean of the College in which the student wants to re-enroll. A student seeking re-enrollment after an absence of two consecutive semesters may be required to re-enroll, according to the policies or the rules of the degree prevailing at the time of re-enrollment. Passed credit hours taken before withdrawal from QU may upon request of the student, be considered towards the completion of the degree prevailing at the time of re-enrollment. A student who withdraws from the University without approval, must re-enroll before being allowed to register. Re-enrollment may be pursued by contacting the Registration Department before the deadline specified in the academic calendar. The decision to proceed with a re-enrollment request is determined by the Registration Department, in consultation with the Director of Admissions, the Department Head, and the Dean of the College in which the student wants to re-enroll. A student seeking re-enrollment after an absence of two consecutive semesters may be required to re-enroll, according to the policies or the rules of the degree prevailing at the time of re-enrollment. Passed credit hours taken before withdrawal from QU may upon request of the student, be considered towards the completion of the degree prevailing at the time of re-enrollment. A student who withdraws from the University without approval, must re-enroll before being allowed to register. Re-enrollment may be pursued by contacting the Registration Department before the deadline specified in the academic calendar. The decision to proceed with a re-enrollment request is determined by the Registration Department, in consultation with the Director of Admissions, the Department Head, and the Dean of the College in which the student wants to re-enroll. A student seeking re-enrollment after an absence of two consecutive semesters may be required to re-enroll, according to the policies or the rules of the degree prevailing at the time of re-enrollment. Passed credit hours taken before withdrawal from QU may upon request of the student, be considered towards the completion of the degree prevailing at the time of re-enrollment.

The following rules are applied in determining attendance of the students:
• A student attends only part of class, the instructor determines whether he/she is considered present or absent for that day.
• Attendance record begins on the first day of class, irrespective of the period allotted to drop/add and late registration.
• If an instructor reschedules a class, the new timing must be suitable and agreed upon in writing by all students; otherwise, instructors cannot hold a student responsible for not meeting the attendance requirement.
• If more than 25% of the classes for a course are cancelled during a semester and not rescheduled appropriately, no student in that course will be failed for reasons of absenteeism.
• A student who does not take any exam may be determined as excused or unexcused by the instructor.

Class attendance is not used as a measurement of failure to attend classes within the allowed limits is not used as a reason to lower student grades.

This must take place by the time the instructor submits final grades to the Registrar. If the instructor accepts the excuse, the student is given an “Incomplete” grade and a date will be scheduled for a make-up exam to be given. Once the make-up exam has been taken and graded, the instructor, with the approval of the Department Head, will provide the Registrar with the final grade to replace the “Incomplete” grade.

STUDY PRINCIPLES AND POLICIES

Attendance
Class participation and attendance are important elements of every student’s learning experience at QU, and the student is expected to attend all classes. Keeping track of student attendance and observation of student performance in class are the responsibilities of the instructor. A student should not miss more than 25% of the classes during a semester. Those exceeding this limit will receive a failing grade, regardless of their performance. In exceptional cases, students, upon the request of the instructor and prior permission can be exempted from attending a class, provided that the number of such occasions does not exceed the limit allowed by the University. The instructor will determine the validity of an excuse for being absent. A student who misses more than 25% of classes and has a valid excuse for being absent will be allowed to withdraw from the course. This student will be exempted from fines associated with withdrawal.
Grading Policy
Instructors shall determine the grade for each undergraduate student registered in their courses according to the following table:

<table>
<thead>
<tr>
<th>Letter Grade</th>
<th>Description</th>
<th>Percentage</th>
<th>Grade Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Excellent</td>
<td>90 to 100</td>
<td>4.00</td>
</tr>
<tr>
<td>B+</td>
<td>Very Good</td>
<td>85 to &lt; 90</td>
<td>3.50</td>
</tr>
<tr>
<td>B</td>
<td>Very Good</td>
<td>80 to &lt; 85</td>
<td>3.00</td>
</tr>
<tr>
<td>C+</td>
<td>Good</td>
<td>75 to &lt; 80</td>
<td>2.50</td>
</tr>
<tr>
<td>C</td>
<td>Good</td>
<td>70 to &lt; 75</td>
<td>2.00</td>
</tr>
<tr>
<td>D+</td>
<td>Pass</td>
<td>65 to &lt; 70</td>
<td>1.50</td>
</tr>
<tr>
<td>D</td>
<td>Pass</td>
<td>60 to &lt; 65</td>
<td>1.00</td>
</tr>
<tr>
<td>F</td>
<td>Fail</td>
<td>less than 60</td>
<td>0.00</td>
</tr>
<tr>
<td>W</td>
<td>Not Pass</td>
<td></td>
<td></td>
</tr>
<tr>
<td>P</td>
<td>Withdrawal</td>
<td></td>
<td></td>
</tr>
<tr>
<td>W</td>
<td>Withdrawal Failing</td>
<td></td>
<td></td>
</tr>
<tr>
<td>A</td>
<td>Audit</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Grade Report Average (GPA)
Every letter grade has grade points corresponding to it. These constitute the basis for calculating the Grade Point Average (GPA). The total number of grade points earned for each course is calculated by multiplying the number of credit hours assigned to the course by the number of grade points corresponding to the letter grade received as shown above. The semester and cumulative GPA are determined by dividing the total number of grade points accumulated for all courses by the number of credit hours attempted. The GPA is an indicator of the student’s overall academic performance at QU.

Example:
Student’s number of courses registered in the current semester 4
Student’s total number of completed credit hours 34
Total of earned grade points 95.5
Student’s current GPA = 95.5/34 = 2.8

NB: The first two decimal digits that come after a proper (unbroken) number do count, while the rest do not (without rounding)

Student’s current registered courses are as follows:

<table>
<thead>
<tr>
<th>Subject</th>
<th>Credit hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>3</td>
</tr>
<tr>
<td>B</td>
<td>2</td>
</tr>
<tr>
<td>C</td>
<td>3</td>
</tr>
<tr>
<td>D</td>
<td>1</td>
</tr>
</tbody>
</table>

Total credit hours for current semester 9

Student’s GPA Calculations:

<table>
<thead>
<tr>
<th>Subject</th>
<th>Grade Points</th>
<th>Credit hours</th>
<th>Total Points Gained</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>4.0</td>
<td>3</td>
<td>4.0 x 3 = 12</td>
</tr>
<tr>
<td>B</td>
<td>2.5</td>
<td>2</td>
<td>2.5 x 2 = 5</td>
</tr>
<tr>
<td>C</td>
<td>1.0</td>
<td>3</td>
<td>1.0 x 3 = 3</td>
</tr>
<tr>
<td>D</td>
<td>0.5</td>
<td>1</td>
<td>0.5 x 1 = 0</td>
</tr>
</tbody>
</table>

Total points gained = total credit hours x Grade points of each grade attained by student in the same course.

Grade Reports and Transcripts
The QU transcript is a student’s official record of academic achievement. The transcript contains all the essential information pertaining to his or her course grades, academic level, scholarship, and degrees received – a summary of the student’s academic history. At the end of each semester, every student is issued a grade report summarizing the course grades they have completed in that semester. Students may obtain an official copy of their QU transcript from the Registration Department.

Major
A major is a curriculum component of an academic program intended to provide in-depth study in a discipline or a professional field of study. The major defines the student’s primary area of study and requires the completion of a defined set of courses and credit hour requirements.

Declaring a Major
1. Students are admitted into their college’s general program at the time of admission to Qatar University.
2. Students may seek to declare their major, after meeting the minimum academic requirements. Admission to the major is extremely competitive; and satisfying the minimum requirements does not guarantee admission into the major.
3. Majors are open to QU students, provided that:
   a. They meet the admission requirements for the major.
   b. They meet the high school subjects requirements.
   c. They pass the Foundation Program Requirements, if applicable.
4. The department offering the major approves the major declaration on the basis of department capacity.
5. Students may declare and pursue only one major.
6. Students should declare their selected major before completing 36 undergraduate credit hours.
7. Students must complete the graduation requirements for a Bachelor degree at Qatar University in order to receive recognition for the completed major.

Change of Minor
A student may change their minor only once and the change must occur before completing 12 credit hours in the minor and 90 undergraduate credit hours. The sought College or Department approves the change taking into consideration their transfer requirements and capacity.

Graduation Requirements
Every major has a study plan consisting of courses selected from the core curriculum, college requirements, major requirements, (major/minor) and electives. An academic degree is awarded to a student who completes all the requirements of the major in which he/she is enrolled with a minimum cumulative GPA of 2.00. The number of credit hours required by each academic major within individual colleges may vary. The minimum number of credit hours required for graduation is shown below:

Minor
A minor is a curriculum component of an academic program intended to provide a limited depth and/or breadth study in a discipline or a professional field of study. Its main objective is to provide students a fair measure of expertise and knowledge in more than one academic area.

Declaring a Minor
1. Minors are open to all QU students provided that:
   a. They meet the admission requirements for the minor.
   b. The department offering the minor approves the student’s enrollment in the minor based on the department capacity.
2. Students may not declare a minor before declaring their major.
3. Students may declare one or multiple minors.
4. Students may not declare a minor in the same field as the declared major.
5. At least half of the credit hours required to complete the minor must be taken in residence at QU.
6. A student must complete the graduation requirements for a Bachelor degree at Qatar University in order to receive recognition for the completed minor.
7. The only recognition delivered by the university for a minor completed by a student consists of the appearance of the minor on the student’s official transcript at the time of graduation and the student graduation statement.
8. Students should declare their selected minor before completing 36 undergraduate credit hours.
9. Students must complete the graduation requirements for a Bachelor degree at Qatar University in order to receive recognition for the completed major.
10. The only recognition delivered by the university for a minor completed by a student consists of the appearance of the minor on the student’s official transcript at the time of graduation and the student graduation statement.
11. A student may change their minor after completing 36 credit hours in the minor and 90 undergraduate credit hours. The sought College or Department approves the change taking into consideration their transfer requirements and capacity.

Change of Major
A student may change their major once only and the change must occur before completing 12 credit hours in the major and 90 undergraduate credit hours. The sought College or Department approves the change taking into consideration their transfer requirements and capacity.

The student’s GPA calculations:

<table>
<thead>
<tr>
<th>Subject</th>
<th>Grade Points</th>
<th>Credit hours</th>
<th>Total Points Gained</th>
</tr>
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<tr>
<td>D</td>
<td>0.5</td>
<td>1</td>
<td>0.5 x 1 = 0</td>
</tr>
</tbody>
</table>

Total points gained = total credit hours x Grade points of each grade attained by student in the same course.

In all cases, the sought College or Department approves the major change, taking into consideration their transfer requirements and capacity.

62
63
<table>
<thead>
<tr>
<th>College</th>
<th>Major</th>
<th>Total number of credit hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arts and Sciences</td>
<td>Arabic language</td>
<td>120</td>
</tr>
<tr>
<td></td>
<td>Biological sciences</td>
<td>120</td>
</tr>
<tr>
<td></td>
<td>Biomedical</td>
<td>135</td>
</tr>
<tr>
<td></td>
<td>Chemistry</td>
<td>120</td>
</tr>
<tr>
<td></td>
<td>English language</td>
<td>120</td>
</tr>
<tr>
<td></td>
<td>Environmental Sciences with Concentration Area in:</td>
<td>125 / 126</td>
</tr>
<tr>
<td></td>
<td>- Marine Sciences</td>
<td>125</td>
</tr>
<tr>
<td></td>
<td>- Biotechnology</td>
<td>126</td>
</tr>
<tr>
<td></td>
<td>History</td>
<td>120</td>
</tr>
<tr>
<td></td>
<td>Human Nutrition</td>
<td>132</td>
</tr>
<tr>
<td></td>
<td>International Affairs</td>
<td>120</td>
</tr>
<tr>
<td></td>
<td>Mass communication</td>
<td>126</td>
</tr>
<tr>
<td></td>
<td>Social Work</td>
<td>120</td>
</tr>
<tr>
<td></td>
<td>Sociology</td>
<td>120</td>
</tr>
<tr>
<td></td>
<td>Sport sciences</td>
<td>120</td>
</tr>
<tr>
<td></td>
<td>Statistics</td>
<td>120</td>
</tr>
<tr>
<td></td>
<td>Policy, Planning and Development</td>
<td>120</td>
</tr>
<tr>
<td></td>
<td>Psychology</td>
<td>120</td>
</tr>
<tr>
<td></td>
<td>Public Health</td>
<td>120</td>
</tr>
<tr>
<td>Business and Economics</td>
<td>Accounting</td>
<td>125</td>
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<tr>
<td></td>
<td>Finance</td>
<td>125</td>
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<td></td>
<td>Management</td>
<td>125</td>
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<tr>
<td></td>
<td>Marketing</td>
<td>125</td>
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<td>Education</td>
<td>Primary Education</td>
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<tr>
<td></td>
<td>Secondary Education</td>
<td>120</td>
</tr>
<tr>
<td></td>
<td>Architecture</td>
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<td></td>
<td>Civil Engineering</td>
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<td></td>
<td>Chemical Engineering</td>
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<tr>
<td></td>
<td>Computer Science</td>
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<td>Computer Engineering</td>
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<td></td>
<td>Electrical Engineering</td>
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<td></td>
<td>Industrial and Systems Engineering</td>
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<tr>
<td></td>
<td>Mechanical Engineering</td>
<td>131</td>
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<tr>
<td></td>
<td>Law</td>
<td>133</td>
</tr>
<tr>
<td>Sharia and Islamic Studies</td>
<td>Dawa</td>
<td>120</td>
</tr>
<tr>
<td></td>
<td>Islamic studies</td>
<td>120</td>
</tr>
<tr>
<td>Pharmacy</td>
<td>Pharmacy</td>
<td>173</td>
</tr>
</tbody>
</table>

Incomplete Grades
An incomplete (I) grade may be received in a course if the student attends but fails to complete all the course requirements. The Incomplete grade is not an alternative for an "F" when the student performs poorly. To be considered for an Incomplete grade, the student must provide an acceptable justification for failing to complete the required work to the course instructor, which the Department Head must also approve. If the justification is related to medical problems, it must be supported by a medical report that is certified by the Public Health Authority or Hamad Medical Corporation and submitted to the Registration Department. Any person presenting the medical report on behalf of a student must produce their ID and that of the student. If an incomplete grade is given because the student did not take the final exam, the student should arrange with the instructor to take the exam. The deadline for changing an (I) grade is the last day of the second week of classes in the ensuing semester. Upon successful completion of the required work, the course instructor will replace the (I) grade with a letter grade (A through F) and submit it to the Registration Department. If a grade of "F" is not changed by the end of the specified period, it will be changed automatically to an "F". Only the Vice President for Student Affairs may grant an extension beyond the specified time limit. At the end of the first week of classes in the following semester, the Registration Department will remind instructors who have given incomplete grades to change them before the deadline.

Grade Appeal and Changing a Grade
A student who believes that he/she has received an unfair or erroneous grade may contest the grade to the instructor of the course within ten (10) business days of the issuance of grade reports. If the instructor concurs with what the student claims, the instructor may submit a grade change to the Department Head. The student will be notified of the grade change once it has been updated by the Registration Department. If the instructor does not agree with the student’s claim, the student may submit a written, signed and dated appeal to the Department Head.

The Department Head will review the merits of the complaint and rule on it. The Department Head may consult with the relevant faculty in the Department before ruling on the claim. Should the course instructor also be the Department Head, the student should submit a written complaint directly to the Associate Dean of the College. If the student is not satisfied with the decision of the instructor or the Department Head, a written appeal may be submitted to the Associate Dean of the College who will then make the final decision on the appeal.

In cases where the student feels that proper procedures were not followed regarding his claim, he/she may appeal in writing to the Vice President for Student Affairs. It should be noted here that the Vice President for Student Affairs will only assess whether proper procedures were followed and will not make a decision regarding the grade change. Once the request is evaluated by the Committee, the student will be notified of the decision by email.

Academic Probation
While every effort is made by Qatar University to provide timely and accurate information to students about their academic standing, it is the sole responsibility of students to be aware of their academic standing at all times. Undergraduate students are placed under academic probation based on their cumulative GPA and the total number of GPA hours as detailed below:
- 0 - 24 GPAH - No academic probation is to be applied
- 25 GPAH or above - Placed under academic probation if cumulative GPA is below 2.00

Academic Probation is noted on the student transcript and academic records.

Once placed on academic probation, students have two (2) consecutive or three (3) separate semesters (summer session not included) to remove the academic probation before being dismissed from the University.

Once placed under Probation at the end of a semester, undergraduate students who fail to satisfy the 2.00 cumulative GPA requirement for “Good Standing” at the end of the following semester of enrollment, excluding the summer term, are placed under Final Probation.

Once placed under Final Probation at the end of a semester, undergraduate students who fail to satisfy the 2.00 cumulative GPA requirement for “Good Standing” at the end of the following semester of enrollment, excluding the summer term, are academically dismissed from the University.

Students under Final Probation who fail to register in courses in a given semester will, unless they received prior approval from the Student Affairs Committee, be academically dismissed at the end of that semester. Students under Final Probation may not withdraw from a semester, request a leave of absence, or leave the university for the remainder of the semester unless they receive prior approval from the Student Affairs Committee. Undergraduate students placed under Probation or Final Probation are allowed to register in a minimum of 9 CH and a maximum of 12 CH per regular semester and a maximum of 6 CH in the summer term. Students may be
allowed to register in more than the maximum number of credit hours, subject to prior approval from the Student Affairs Committee.

A hold is applied for all students placed under Probation, Reinstatement, Final Probation, or Final Academic Probation is granted to successful grade. A maximum of a 1 regular semester extension for reinstatement up to a maximum of one (1) year of the official notification of academic dismissal. Applicants may seek reinstatement after completing a minimum suspension period of 1 regular semester, excluding summer. The application for reinstatement should be submitted to the Director of the Registration Department by the application deadline.

Academic Dismissal

A student will be dismissed from the University for academic reasons under the following conditions:

• Failing a required course three (3) times.
• Failing to achieve a minimum GPA of 2.00 for three (3) consecutive or four (4) Non-Consecutive semesters since admission or three (3) semesters since reinstatement.
• Failing to meet graduation requirements within eight years from enrollments in the University (excluding Foundation Program) or within the maximum allowed additional time as indicated in the appeal or the reinstatement decision.
• Not registering in any course in a given semester, excluding the summer term, while placed under Final Probation and without having secured prior approval from the Student Affairs Committee.

Appealing Academic Dismissal

Any Qatar University student who is dismissed from the institution for academic deficiency may apply the decision to the Academic Dismissal, Appeal and Reinstatement Committee. The appeal should be submitted to the Director of the Registration Department within 10 business days of the official announcement of final grades. A maximum of a 1 regular semester extension (Fall or Spring) of Final Probation is granted to successful appeals. The following criteria will be applied by the Academic Dismissal, Appeal and Reinstatement Committee (Appendix A) when evaluating the appeal:

1. In the semester of academic dismissal, the student experienced a progressive, disabling, and/or medical condition resulting in extended hospitalization and/or medical treatment; or
2. The student was a minimum cumulative GPA of 1.90; or
3. The student requires a maximum of 15 credit hours to satisfy graduation requirements and can achieve a 2.00 cumulative GPA by earning a maximum of 15 credit hours with an A average.

If the student fails to appeal, is eligible to appeal but does not, or if the appeal is not successful, he/she may apply for Reinstatement.

Reinstatement

Any Qatar University student who is dismissed from the institution for academic deficiency may apply for reinstatement up to a maximum of one (1) year of the official notification of academic dismissal. Applicants may seek reinstatement after completing a minimum suspension period of 1 regular semester, excluding summer. The application for reinstatement should be submitted to the Director of the Registration Department by the application deadline.

The following applies to all applicants seeking reinstatement:

• All reinstatement applicants must satisfy all application deadlines.
• Reinstated students may return to the College in which they were declared at the time of academic dismissal or may be transferred to a different College as part of their reinstatement.
• Reinstated students are required to participate in the Successful Transitions Program.
• Students will only be reinstated once. If a student is academically dismissed for a second time, the student is not eligible for reinstatement.

The following applies to all applicants seeking reinstatement:

A. All QF coursework and cumulative GPA earned prior to academic dismissal will remain on the academic record. The student will be reinstated on Probation and will therefore have a minimum of 2 semesters to achieve Good Standing or pass academic dismissal.
B. Reinstated students who were academically dismissed due to repeated failure in a course are allowed to repeat the failed course one more time. Additional attempts in the repeated course will result in academic dismissal.
C. Reinstated students may be considered for possible transfer credit according to QF’s transfer credit rules.

Repeating a Course

A student may repeat any course taken at Qatar University in which a final grade of “D” or below was earned. The following applies to academic advisors:

• Undergraduate students who fail a course two times must obtain the approval of their academic advisor and the head of department of their program before repeating the course.
• The repeated course may only be counted once towards the maximum number of credit hours required for graduation.
• Courses transferred from another accredited college or university cannot be repeated for additional credit.
• For all courses taken prior to Spring 2013 and repeated in Spring 2013 or thereafter, the grade obtained in the prior attempt(s) of the course is excluded from the cumulative GPA calculation and only the grade obtained in the most recent attempt is used in the calculation of the cumulative GPA.
• Grades for all attempts of a course appear on the official transcript. A notation of “E” on the transcript indicates the attempt(s) excluded from the cumulative GPA calculation, with a notation of “R” denoting the attempt included in the cumulative GPA calculation.
• The degree GPA is not changed for any courses repeated after the degree is awarded.

Auditing Courses

QF allows a student to enroll in courses on a non-credit basis, provided that the student receives prior permission from the instructor of the course, and registers as an audit student. Permission to audit a course is contingent upon the availability of space and class size. Priority is given to a student who takes the course for credit. A student who audits a course, however, is charged the standard tuition, fees, and registration costs. An audit student is expected to attend class regularly, but is not obliged to take exams and so does not receive the normal grade (A-F); rather upon completion of the course, a grade of “AU” is recorded in the student’s transcript to denote that the course was taken on an audit basis. Should a student wish to take the course for credit, he/she must get the status changed at the Registration Department no later than two weeks from the commencement of classes. A student can audit a given course only once.

Internships

The University encourages its students to benefit from internships whenever possible. Internships combine what the student has learned in the classroom with a real world experience such as a company, school, government, or governmental project. The academic department determines the number of credit hours awarded to internships. Upon completing the requirements of an internship, the student receives a grade. To apply for an internship, the student must have the support of the academic advisor, Dean of the College in which he/she is enrolled.

Application forms for internships are available at the office of the Career Services Center, or from the office of the Dean of the student’s College. Students are selected for internships based on their ability to perform the work required by the position to which they are interned. At the time of application, the student must have a full-time status and be in good academic standing at the University. Maintaining academic credit requirements is necessary for job performance and a minimum cumulative GPA of 2.0. If a student is terminated from the internship due to failure to meet job expectations, he/she is eligible to reapply one year from the date of termination.

Transferring Credits to QF

Qatar University students may take courses at other accredited colleges or universities, and this academic credit may be transferred to QF under the following conditions:

• The student submits an application to the Registration Department, along with a copy of the course syllabi from the colleges and universities attended. The content of the transferred courses must match 90% of the course content and the credit hours earned must be worth a grade of “C” or above are transferable.

• The respective academic department at QF will make the final decision on transfer of credit into its program. Courses accepted for transfer will be given a grade of “TC” but will not bear on the GPA accumulated at QF; however, credit hours transferred will be used to satisfy graduation requirements provided they do not exceed 50% of the required credit hours needed for graduation from QF. If the student has successfully completed more than 50% of the courses required for a degree at QF or at another institution, he/she will have to determine the courses to be transferred to their record at QF given that they fall within their study plan at QF.

First year admits are not eligible to receive transfer credit consideration for coursework completed prior to their semester of admission to QF.

Transfer Students

QF welcomes students transferring from other accredited institutions of higher education. A comprehensive list of transfer admission requirements can be found in the admissions portion of the Undergraduate Catalog.

ACADEMIC ACHIEVEMENT AWARDS

The purpose of having the academic achievement awards is to recognize and acknowledge students whose academic performance is distinguished during their studies at QF. The levels of honor are reflected in the following list:

• Order of Excellence: Bachelor degree graduates who have demonstrated
distinguished academic performance during their study at QU are acknowledged and honored by the University during their graduation ceremony. A maximum of ten graduates are selected to receive Academic Excellence Medals. In order for a student to qualify for receiving this outstanding award, the following conditions must be met by the student:
1. Having attained a minimum overall GPA of 3.80, and never received a grade of less than ‘B’ during their undergraduate studies.
2. Having never received a written disciplinary warning or sanction while studying at QU.

Graduating With Honors: Students who are graduating with a Bachelor’s degree and have attained outstanding academic performance are acknowledged and honored by the University during the graduation ceremony, and are issued certificates that attest to their achievements. In order for a student to receive this outstanding award, he/she must meet the following conditions:
1. Graduated in the top 5% of the graduating class for that academic year with a minimum overall GPA of 3.50.
2. Having never been placed on academic probation, nor was subjected to disciplinary action while studying at QU.

The Vice-President and Chief Academic Officer’s List: The Vice-President and Chief Academic Officer List recognizes all students at the Undergraduate level who have shown distinguished academic performance. This award is issued at the completion of each fall and spring semester by the Vice President for Student Affairs, upon approval of the University’s Vice-President and Chief Academic Officer. This award is reflected on the student’s transcript for the semester of award. To achieve Vice-President and Chief Academic Officer recognition, a student must satisfy the following conditions in addition to all Dean’s List requirements:
1. Earn a minimum cumulative GPA of 3.50.
2. Complete a minimum of 30 credit hours.
3. Earn a minimum final grade of “C” for all courses taken in the semester, with the exception of courses taken on Pass/Fail basis.
4. Not placed on academic probation during the academic semester of award.
5. Not subjected to any disciplinary action by the University for two semesters prior to the award.

STUDENT NON-ACADEMIC AWARDS

The University bestows special service awards to students who have demonstrated exceptional contributions in the areas of campus life, student activities, athletics and services. Three categories of awards will be presented to both male and female students: (1) Student Leadership Award, (2) Student Services Award and (3) Student Athletic Award.

Nominations for the Student Non-Academic Awards can be made by individual faculty members, staff, other students, or the student, providing that the eligibility criteria stated for each award is met by the student. Should a student wish to make a nomination for any of these awards, he/she must submit at least one letter of recommendation attesting to their leadership qualities, service rendered, or athletic skills.

Student Leadership Award (one male student and one female student): This award is reserved for male and female students who have exhibited the most outstanding leadership qualities in student activities and/or student organizations. To be eligible for this award, the student must have:
1. Been active in a University sport activity.
2. Shown clear athletic achievement.
3. Maintained a practice or training regimen acceptable to their coach.
4. Completed a minimum of 60 credit hours.
5. Maintained a GPA of 2.00 for the previous two semesters.
6. Contributed to campus life and the community.
7. Set an example for other students through investment of their time and energy in order to impact campus life.
8. Completed a minimum of 60 credit hours.
9. Maintained a GPA of 2.00 for the previous two semesters.

Student Athletic Award (one male student and one female student): This award is given in recognition of the students who have achieved excellence in the sports they practice. To be eligible for this award, the student must have:
1. Been active in a University sport activity.
2. Shown clear athletic achievement.
3. Maintained a practice or training regimen acceptable to their coach.
4. Completed a minimum of 60 credit hours.
5. Maintained a GPA of 2.00 for the previous two semesters.

Student Services Award (three male students and three female students): This award is given to the three male and female students who have exhibited outstanding achievements in student activities, student services, and service to the community. To be eligible for this award, the student must have:
1. Been active in student activities, student services, or in the service of the community, and demonstrated clear achievement in this realm.
2. Completed a minimum of 60 credit hours.
3. Maintained a GPA of 2.00 for the previous two semesters.

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1. Been active in student activities, student services, or in the service of the community, and demonstrated clear achievement in this realm.
2. Completed a minimum of 60 credit hours.
3. Maintained a GPA of 2.00 for the previous two semesters.

STUDENT NON-ACADEMIC AWARDS

The University bestows special service awards to students who have demonstrated exceptional contributions in the areas of campus life, student activities, athletics and services. Three categories of awards will be presented to both male and female students: (1) Student Leadership Award, (2) Student Services Award and (3) Student Athletic Award.

Nominations for the Student Non-Academic Awards can be made by individual faculty members, staff, other students, or the student, providing that the eligibility criteria stated for each award is met by the student. Should a student wish to make a nomination for any of these awards, he/she must submit at least one letter of recommendation attesting to their leadership qualities, service rendered, or athletic skills.

Student Leadership Award (one male student and one female student): This award is reserved for male and female students who have exhibited the most outstanding leadership qualities in student activities and/or student organizations. To be eligible for this award, the student must have:
1. Been active in a University sport activity.
2. Shown clear athletic achievement.
3. Maintained a practice or training regimen acceptable to their coach.
4. Completed a minimum of 60 credit hours.
5. Maintained a GPA of 2.00 for the previous two semesters.

Student Athletic Award (one male student and one female student): This award is given in recognition of the students who have achieved excellence in the sports they practice. To be eligible for this award, the student must have:
1. Been active in a University sport activity.
2. Shown clear athletic achievement.
3. Maintained a practice or training regimen acceptable to their coach.
4. Completed a minimum of 60 credit hours.
5. Maintained a GPA of 2.00 for the previous two semesters.

Student Services Award (three male students and three female students): This award is given to the three male and female students who have exhibited outstanding achievements in student activities, student services, and service to the community. To be eligible for this award, the student must have:
1. Been active in student activities, student services, or in the service of the community, and demonstrated clear achievement in this realm.
CHAPTER 8
ACADEMIC ADVISING

Academic advising is an ongoing partnership between students and their advisors that helps students to attain their academic, personal, and career goals.

The academic advisor serves as the primary link between the student’s academic program and other resources available at the university. In order to assist students in making informed choices about their education and career goals, academic advisors help students identify available opportunities and options while also communicating accurate and timely information about academic policies and procedures, programs, resources, and career opportunities.

General academic advising is available to all students. In addition to this, students are assigned to academic advisors in their respective colleges. Advisors assist students with course selection, registration, and educational planning.

Although advisors at QU actively assist students in making effective academic choices, students are personally responsible for planning their academic program to meet all graduation requirements. Therefore, students are encouraged to take the lead in developing an association with their academic advisor by communicating with them on a routine basis. Through regular contact with their advisors, students develop essential communication, decision-making, and problem-solving skills and become actively engaged in their educational expedition, thereby making it a richer experience.
The Honors program is a community of exceptional, motivated, and innovative minds. It serves as a vehicle to enhance the intellectual quality and inspire the academic culture of the University. The program encompasses all undergraduate colleges and programs in the university.

HONORS BENEFITS

Members of the Qatar University Honors program have the following academic opportunities available to them:
• Recognition at graduation and on their transcript of successful participation in a challenging, high-quality honors program.
• Innovative courses created especially for the Honors Program by outstanding scholars/teachers.
• Participation and intensive faculty guidance.
• Priority for Undergraduate Research Funding.
• A scholarship, if the student persists in good standing as a member of the college-wide Honors Program and maintains a GPA of 3.5.
• Opportunities for outstanding Honors students for Conference Attendance Support.
• Annual Honors Program Awards for the best academic performance and best services award.
• Possibilities for Funding for Senior projects and Capstone Honors Thesis.
• Free joining fees for QU clubs or 25% reduction in other selected clubs.
• Honors students will have priority scholarship consideration for Master and PhD studies at QU and GTAs.
• Priority for students in the IAESTE exchange program.

HONORS ADMISSION REQUIREMENTS

For newly admitted undergraduate students:
• Minimum of 90% or higher in high school certificate or an equivalent certificate
• Successfully pass an interview.
• Recommendation letters
• Written essay

Regular undergraduate students can apply to enroll in the Honors Program if they satisfy the following requirements:
• Complete or about to complete min 12 to 18 credit hours in undergraduate level courses with 3.3 GPA
• Have no record of academic probation or disciplinary misconduct or violation.
• Recommendation letters from current or previous instructors, counselors, or academic advisors
• A written essay

Continuation in the program

All undergraduate students admitted to the Honors Program have to satisfy the following requirement in order to maintain their enrollment in the Honors Program.
• A minimum cumulative Qatar University GPA of 3.30.
• Progress towards completion of his/her degree requirements.
• Not having more than two consecutive semesters with no Honors course
• Having no violations, probation, or record of any misconduct.

Graduation from the program

Regular undergraduate students must complete the following requirements in order to graduate from the Honors Program:
• Earn a minimum cumulative Qatar University undergraduate GPA of 3.50 at graduation.
• Complete a minimum of 24 credit hours of Honors Program courses.
• Complete all Honors Program courses with a minimum grade of C.
• Have never been placed on academic probation, nor be subjected to disciplinary action while studying at QU.

2) For students who complete all the honors requirement but have a GPA of less than 3.5 and no lower than 3.3, they will be issued with a certificate of honors course completion (for students who have successfully completed all required courses in the honors study plan, course listing and grades will be identical to what is officially stated on the students’ official academic records.)

Dismissal and withdrawal from the Honors Program

An Honors student will be dismissed from the Honors Program when:
1. GPA drops below 3.3.
2. A student is found by the university to have committed or participated in an incident of academic dishonesty or any other violation.
3. Failure to successfully complete an Honors course in two consecutive semesters.

Students wishing to withdraw from the program should fill in the required “withdrawal form” and submit it to the Honors office for evaluation.
Reinstatement to the Honors Program

Any student dismissed/ withdrew from the Honors Program may apply for reinstatement to the program. A student who has been dismissed/ withdrew from the Honors Program may submit a formal petition in the form of a letter requesting re-instatement to the program. The typed letter must be submitted to the Director of the Honors Program explaining the circumstances of dismissal/ withdrawal and reasons for re-instatement. After considering the circumstances and the student’s academic history, current GPA and academic progress, the Honors Director with consultation of the Honors council decides whether the student is to be reinstated.

HONORS PROGRAM STUDY PLAN STRUCTURE

In order to graduate with Honors, students must complete a minimum of 24 credits of Honors coursework. Reasonable progress includes the completion of at least 6 Honors credits each year, with an overall cumulative GPA of 3.50. In order to retain the privileges of membership in the Honors Program, students must maintain this minimum progress.

HONORS CURRICULUM

Honors courses are offered each semester specifically for Honors Program members. Outstanding and acclaimed faculty members teach these courses. Honors courses usually emphasize participatory classroom styles, intense and in-depth study of subject matter, the use of primary source material, team or group teaching, an interdisciplinary theme, and an element of independent study. Honors courses include intensive reading, writing, and research. Only Honors students may enroll in Honors courses.

TYPICAL HONORS SEQUENCE (FALL 2013)*

<table>
<thead>
<tr>
<th>Credit Hours</th>
<th>Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>Freshman Seminar (Honors Core 1)</td>
</tr>
<tr>
<td>6</td>
<td>Two University Curriculum Courses from different packages (Honors Core 2, Honors Core 3)</td>
</tr>
<tr>
<td>9</td>
<td>Three Major-based Honors Courses (300-400 level)</td>
</tr>
<tr>
<td>6</td>
<td>Honors Senior Seminar 498, Honors Thesis 499 (Senior Project, Senior Seminar, Capstone, etc.)</td>
</tr>
<tr>
<td>24</td>
<td>Total Program Credit Hours*</td>
</tr>
</tbody>
</table>

* Honors students who joined the program before 2013 can either stay on their old Honors sequence or follow the new sequence listed above.

**Please note that the 24 credit hours to complete the Honors Program are included in the overall hours required to earn an undergraduate degree at Qatar University.

HONORS STUDENT ASSOCIATION

Honors students have several opportunities to engage in academic and recreational activities through their participation in the Honors Student Association (HSA). The association is a student-elected body with the following functions:

1. Represent the interests of Honors students and promote the Honors program on and off campus.
2. Plan and implement special events, including academic and extracurricular activities that focus on academic enrichment, professional development, social development, and community service.
3. Engage Honors students with students in academic departments across campus and with the various academic programs in Education City.

HONORS STUDENT ADVISING

Every student is assigned an academic advisor upon matriculation; however, Honors students also have access to an Honors advisor, who will advise both on Honors issues as well as in broader areas. Honors advising is similar to mentoring and it does not end with advising on Honors Program curriculum issues. The Honors Advising Office will report directly to the Honors Program Director and work very closely with the university advising center.

CONTACT INFORMATION

For additional information on the Honors Program, visit their website at http://www.qu.edu.qa/honors_program or email quhonors@qu.edu.qa.
CHAPTER 10

FOUNDATION PROGRAM

Foundation Building (Women’s Section)
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Website: http://www.qu.edu.qa/foundation/
Acting Director
Dr. Mohammed Ali Naemi
Phone: +974 4403 5300
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INTRODUCTION

The Foundation Program at Qatar University presents unique and challenging opportunities for students to become better-prepared and confident in key academic areas of study at Qatar University. All QU students who register in Foundation-level courses are provided opportunities to develop their academic abilities in preparation for degrees in science, engineering and pharmacy at Qatar University.

VISION

The Foundation Program aspires to be internationally recognized for its innovative and quality education.

MISSION

The mission of the Foundation Program is to provide Qatar University students with required knowledge of English and Mathematics through active learning. The students will be equipped with problem solving, critical thinking and study skills through student-centered approaches.

OVERVIEW

The Foundation Program is composed of two departments: the Department of English and the Department of Math. The Foundation Program offers up to 25 classroom teaching contact hours per week (21 hours in English; 4 hours in Math). In addition, the Department of English and the Department of Math.

DEPARTMENT OF ENGLISH

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Head
Mr. Patrick Murphy

NON-CREDIT COURSES in General English and EAP (ENGLISH FOR ACADEMIC PURPOSES)

Length & Structure of Program

The English Program holds five-year accreditation from the Commission on English Language Program Accreditation (CEA), and offers different levels of instruction in focusing on developing students’ language skills in reading, writing, listening, and speaking. Appropriate technology is integrated with program activities to aid language skills development and to support autonomous learning. Students are expected to complete the program in one year.

The English Program is comprised of three courses at beginner or intermediate levels. The courses are English Integrated Core, English Reading Workshop, and English Writing Workshop. Students may be placed in different levels for each course based on the pre-requisites for each course. By completing the top level of each course with a 70% (C) grade, students complete the Foundation English Program.

Placement

New students who do not achieve the exemption scores must register in ACCUPLACER ESL (APL) test. The CEA tests students’ reading, listening, and understanding of grammar and vocabulary. Students are allowed to sit for the test once during their Foundation English study, unless otherwise required by the department. Students are placed in the appropriate level of English Integrated Core, English Reading Workshop, and English Writing Workshop based on their ACCUPLACER scores. Students advance to higher levels and exit the program by achieving a 70% (C) in each course.

Program Objectives

The Program aims to help students develop skills to achieve the following objectives:
1. Interpret academic texts
2. Express ideas and facts effectively in writing
3. Use verbal skills to communicate effectively
4. Interpret and understand information
5. Demonstrate proficiency required to interpret and use language
6. Apply independent learning skills
7. Use appropriate ICT tools for learning and communicating
8. Demonstrate collaboration skills

Completion

Students complete the Foundation English Program. The Foundation Program is designed to be completed within one or two semesters, depending on the level of their entry to the program. Students complete the Foundation English requirements when they have completed both levels of the program. However, they can also be exempted from Foundation English requirements at any time when they obtain the required score on the TOEFL paper-based test, the TOEFL iBT, or IELTS. The Foundation Program cooperates with various agencies to validate certificates of exams taken outside Qatar University, to ensure the proper level of skill and knowledge. The Foundation Program reserves the right to verify any certificate issued from centers outside Qatar. The Foundation Program within the timeframe specified by university regulations. Foundation-level courses are not part of the undergraduate study plans and therefore credits earned cannot be applied towards an undergraduate or graduate degree.

STUDENT SERVICES

The Foundation Program provides courses in English and Math, and services in standardized external Examinations (IELTS, TOEFL, ACT, ACCUPLACER).

The Foundation Program liaises with relevant QU offices, such as Student Services, Continuing Education, Student Affairs, and Special Needs, to offer appropriate support and services including:
• Clubs, competitions, and field trips
• Student Advising Center Access
• Academic assistant through the Student Learning Support Center
• Examination preparation for IELTS, TOEFL and ACT

STUDENT SERVICES

Implementation

Students who study in Arabic in the Colleges of Arts and Sharia and Education Courses

Students in some majors of study are exempted from completing the Foundation Program English requirement. Nevertheless, these students enter to the program. Students complete the Foundation English requirements when they have completed both levels of the program. Nevertheless, these students complete a shorter, two-course series (each of which fulfill three university credit hours) to develop their English language skills. English Language I for Arts, Sharia and Education focuses on the integration of the four skills (reading, writing, listening, and speaking) in addition to the development of grammar and vocabulary. The next course, English Language II for Arts, Sharia and Education, cultivates reading skills such as skimming & scanning, prediction, and identification of main ideas. Both courses focus on developing student writing and presentation skills so that they will be able to handle Basic English requirements later in their academic and professional lives.

UNIVERSITY REQUIRED COURSES: ENGLISH FOR NON-Foundation Courses

There are four university required courses administered by the Foundation Program Department of English: Post-Foundation courses and English Language for Arts, Sharia and Education courses.

Length & Structure of Post-Foundation Courses

After completing or being exempted from the Foundation Program English requirement, students who are studying within Science, Engineering and Pharmacy which are taught in English at the university, take the two required credited courses: English Language I and English Language II. Both are three credit-hour, courses aimed at promoting advanced academic skills, with a particular focus on academic writing and critical thinking. English Language I focuses on developing an appreciation of and an ability to produce different fundamental essay writing genres. The course also develops a student’s academic vocabulary, critical reading and reflection skills. Finally, students are introduced to various fundamental online learning activities as well as academic summary and paraphrasing writing skills. English Language II fosters the skills necessary for students to be able to develop a research topic, research questions and appropriate outline. In addition, students are taught how to conduct independent library searches both physically and online, and how to paraphrase and rephrase source information into their writing and write a referenced academic term paper. After the completion of both courses, students will have the skills and abilities to successfully complete the academic writing requirements demanded by their major courses at QU.
• English for Communication 1 (ENGL 250), and  
• English for Communication 2 (ENGL 251).

**Length & Structure of English for Non-Foundation Courses**

All courses are three credit courses and meet five hours per week to ensure active use of English with pair, group and project work included. All courses integrate the four skills of speaking, listening, reading and writing, but with different emphases. ENGL 110 stresses general speaking and listening, while ENGL 111 gives equal value to all skills. ENGL 250 and 251 give attention to intensive reading and writing by looking at and producing many practical texts, as well as increasing academic skills to write term papers. After completing all four courses, students should have a comfortable level of competency in English, whereby they can cope flexibly with English media in the workplace and in future studies of their chosen discipline.

**DEPARTMENT OF MATHEMATICS**

Phone: + 974 4403 5500  
Email: fmcqu@qu.edu.qa  
Head: Mr. Salim Salim

**PROGRAM OBJECTIVES**

The aim of the Math Department is to help students to develop their mathematical skills through the following objectives:

1. To provide students with the opportunity to gain deeper understanding of algebraic relationships and processes, as well as new and improved algebraic skills.
2. To develop students' basic skills in the mathematics needed for success in calculus by promoting critical thinking and using technology, with emphasis on MyLabsPlus as an instructional and learning tool for mathematics.
3. Encourage students to become independent learners and problems solvers.

**Placement**

A student is required to pass one of the required benchmark tests, which are ACT, SAT, & ACCUPLACER. The student will be placed/exempted according to the criteria described in the following table:

<table>
<thead>
<tr>
<th>Elementary Algebra</th>
<th>Pre-Calculus Course</th>
<th>Full Exemption</th>
</tr>
</thead>
<tbody>
<tr>
<td><em>ACT score is less than 21</em></td>
<td><em>ACT score greater than 22 and less than 24</em></td>
<td><em>ACT score is greater than or equal to 24</em></td>
</tr>
<tr>
<td><strong>SAT score is less than 500</strong></td>
<td>SAT score greater than 499 and less than 500</td>
<td>SAT score is greater than or equal to 550</td>
</tr>
<tr>
<td>APL Elementary Algebra score is less than 82</td>
<td>APL Elementary Algebra score greater than 81</td>
<td>APL College Level Math score greater than 94</td>
</tr>
</tbody>
</table>

*Math component only  
** General SAT Math

**NON-CREDIT COURSE IN ELEMENTARY ALGEBRA**

The Math Program has one level of instruction; the Elementary Algebra Course, which focuses on developing students' mathematical skills in preparation for their subsequent entry into academic programs at Qatar University. The program offers and maintains an innovative learning and teaching environment which develops students' critical thinking skills, promotes independent and lifelong learning capabilities, and equips students with the mathematical skills required for productive participation in a technologically-driven society. It is a 4 hour per week course (3 hours in class and 1 hour in the lab).

**Completion**

Students complete the Foundation Math Program when they achieve at least 70% (C) in the Elementary Algebra course of the program.

**UNIVERSITY REQUIRED COURSES: PRE-CALCULUS COURSE**

Pre-Calculus is a university requirement course administered by the Foundation Program Department of Mathematics.

**Length & Structure of Pre-Calculus Course**

After completing or being exempted from the Foundation Program math requirement, students must take the Pre-Calculus credited course if Calculus 1 is required in their future study. It is a four hour per week course (3 hours in the class and 1 hour in the lab). The Pre-Calculus course fosters the fundamental mathematical skills necessary to prepare students for the Calculus I course at the university level.

**Completion**

Students advance to the Calculus I course by achieving at least a 60% (D) in the Pre-Calculus course.
CHAPTER 11 CORE CURRICULUM

The Core Curriculum is a substantial component in all undergraduate academic programs offered by QU. It is an important building block of any bachelor's degree program. The inclusion of the Core Curriculum in all academic programs has been based on the understanding that it would not be enough for students to take courses only in the major.

The main goal of the Core Curriculum is to ensure that all undergraduate students are equipped with a broad knowledge related to disciplinary and interdisciplinary fields, basic skills and dispositions essential to the intellectual growth, moral maturity, personal fulfillment and social development needed for living successfully in an increasingly globalized and interconnected world. The concept of a "Core Curriculum" is based on the idea that the mastery of certain fundamental skills is crucial to the learning process, no matter what students choose to study. The Core Curriculum has been designed to provide undergraduates with a general education, a core of general skills and knowledge that every individual needs; either to excel in professional career, or to build a rich and fulfilling personal life.

MISSION

The mission of the Qatar University Core Curriculum Program is to prepare competent undergraduate students who are well-rounded, multi-skilled and effective global citizens. Through a motivating and research-based learning environment, the program seeks to create highly distinguished learners capable of succeeding in the diversity of disciplines offered by QU and who can contribute positively to society.

OBJECTIVES

The Core Curriculum Program aims at helping the students to:

1. Instill the concept of good citizenship within the commitment to the framework of Arabic and Islamic moral values.
2. Build awareness of diverse knowledge to assimilate knowledge related to disciplinary and interdisciplinary fields.
3. Demonstrate proficiency in written and oral Arabic.
4. Communicate competently with others using oral and written English skills.
5. Think critically and creatively in a variety of methods in order to make decisions and solve problems.
6. Demonstrate competency in the use of research skills and various information sources.
7. Identify the general concepts of humanities and natural sciences in a manner that reveals their value in life.

Structure

Coursework in the Core Curriculum is intended to impart the skills, foundational knowledge, and dispositions described in the Core Curriculum's Objectives and Learning Outcomes. The Core Curriculum Program is a set of college-level courses drawn from different disciplines. The courses are organized and distributed into seven packages: A Common Package (12-15 Credits), Social/Behavioral Sciences Package (3 Credits), Natural Sciences and Mathematics Package (3 Credits), Humanities/Fine Arts Package (3-6 Credits), General Knowledge Package (0-3 Credits), and General Skills Package (0-3 Credits). The Humanities/Fine Arts Package includes a sub-package; Qatar and Gulf History (3 Credits).

In some study plans, depending on the major, the structure has a package titled "Supplemental College/Program Core Requirements." This package (0-12 Credits) may include different courses related to the mission, objectives and learning outcomes of the Core Curriculum Program. It might include courses pertaining to natural sciences, mathematics, social/behavioral sciences, and humanities/ fine arts. Courses in such a package can be counted as Core/Program courses. In addition, English courses focusing on developing language skills might be included in this package.

Each package has a required number of credit hours. Students have to satisfy the minimum credit hours assigned to each package. Courses in the Core packages are selected to cover different disciplines including social/ behavioral sciences, humanities/fine arts, natural sciences, and mathematics.

Regulations

- As a general rule, all undergraduates of Qatar University are required to complete a 33-credit Core Curriculum before receiving a baccalaureate degree. These requirements must be met by every student pursuing a baccalaureate degree at Qatar University, regardless of his or her major.
- The Core Curriculum is spread out across students’ full tenure at the University. The Core requirements must be completed only prior to graduation. English courses focusing on developing language skills should be completed by the second semester of the third year. Courses offered in a student’s major or minor program cannot be counted for credit in the Core Curriculum.

Core Curriculum Program

A minimum of 33 credit hours required to complete the Core Curriculum Program as detailed below.

Common package (12 - 15 CH)

The number of credit hours required for this package ranges from 12 to 15 credit hours, depending on the program. The specific courses to be completed by students are identified in the degree requirements of each program and consist of some combination of the courses listed below:

- ARAB 100 Arabic I
- ARAB 200 Arabic II
- ARAB 300 Arabic Language Basics
- ARAB 109 Language Skills
- ARAB 110 Introduction to Literature and Language
- ARAB 201 Arabic Language Basics Adv
- ENGL 110 English I
- ENGL 111 English II
- ENGL 112 Essay Writing I
- ENGL 115 Advanced Reading Comprehension
- ENGL 202 English Language I – Post Foundation
- ENGL 203 English Language II – Post Foundation
- DAWA 111 Islamic Culture

Social/Behavioral Sciences package (3 CH)

A minimum of 3 credit hours from courses listed in CCP defined Social/Behavioral Sciences package including:

- ECON 111 Principles of Microeconomics
- ECON 112 Principles of Macroeconomics
- EDUC 203 Family Relationships
- EDUC 204 Human Development
- HONS 102 Honors for Social Sciences
- INTA 203 Human Rights
- INTA 203 Women in Islam
- INTA 206 Globalization
- MCOM 103 Media and Society
- PSYC 205 Social Psychology
- SOCI 121 Introduction to Sociology

Natural Science/Mathematics package (3 CH)

A minimum of 3 credit hours courses listed in CCP defined Natural Science/Mathematics package including:

- BIOL 101 Biology I
- BIOL 110 Human Biology
- CHEM 101 General Chemistry I
- GEOL 101 Principles of Geology
- MATH 101 Calculus I
- MATH 103 Intermediate Algebra
- MATH 104 Basic Geometry and Measurement
- PHYS 183 Introduction to General Physics

Humanities/Fine Arts package (3 - 6 CH)

The number of credit hours required for this package ranges from 3 to 6 credit hours, depending on the program. Programs must complete 3 Credit Hours from courses listed in the Qatar and Gulf History sub-package. When applicable, the remaining 3 credit hours can be taken from the CCP defined Humanities/ Fine Arts package including:

- ARAB 221 Classical Arabic Poetry I
- ARAB 326 Literary Arabic
- ARAB 482 Contemporary Gulf Literature
- HIST 117 Ethics
- HIST 202 Introduction to General Philosophy
- HIST 305 Modern Philosophy
- ENGL 155 Introduction to Language
- ENGL 156 Introduction to Literature
- ENGL 234 Language and Gender
- ENGL 209 Language and Society
- ENGL 213 Language and Culture
- ENGL 233 Language and Computers
- GEOG 110 General Geography
- GEOG 441 Geography of Qatar
- HIST 103 An Introduction to History
- HIST 217 Islamic Civilization
- HIST 334 Arabian Gulf in Antiquity
- HIST 416 History of Islamic Arts and Architecture-HONS 101 Honors for Social Science
- ISLA 205 Intellectual Foundations of Islamic Civilization
- PHIL 110 Introduction to Philosophy
Qatar and Gulf History Sub package (3 CH)
The Qatar and Gulf History Sub package is part of the Humanities/Fine Arts package. Students must complete a minimum of 3 CH in courses listed below.
- HIST 121 History of Qatar
- HIST 222 The Gulf in Modern Period
- HIST 421 The Gulf and the Arab World
- HIST 323 Gulf-South Asian Relations in Modern and Contemporary History

General Knowledge package (0 - 3 CH)
The number of credit hours required for this package range from 0 to 3, depending on the program. When applicable, the 3 credit hours can be taken from courses listed in the CCP defined General Skills package, including:
- ARAB 224 Classical Arabic Prose
- ARAB 261 Rhetorics
- ARAB 262 Prosody and Metrics
- ARAB 271 Persian Language I
- DAWA 113 Philosophy of Sirah
- DAWA 263 Principles and Methodology of Dawa
- DAWA 206 International Organizations & Human Rights
- EDUC 310 Foundation of Education in Qatar and School Reform
- INTA 308 International Political Economy
- INTA 405 Gender in the International Perspective
- INTA 415 History of the Middle East in 20th Century
- ISLA 101 Studies in Islamic Creed
- ISLA 102 Quranic Sciences
- ISLA 201 Principles of Islamic Jurisprudence
- ISLA 209 Islamic Studies in Contemporary Thought
- LAWC 102 Human Rights
- LAWC 339 Public International Law
- PSYC 201 Introduction to Psychology
- SOCI 200 Sustainable Development
- SPSC 101 Traditional and New Games
- SPSC 201 Theory and Practice "Teams Sports"

General Skills package (0 - 3 CH)
The number of credit hours required for this package ranges from 0 to 3, depending on the program. When applicable, the 3 credit hours can be taken from courses listed in the CCP defined General Skills package, including:
- ACCT 110 Financial Accounting
- DAWA 114 Modern Techniques of Dawa
- DAWA 204 Research Methodology
- DAWA 205 Schools of Islamic Thought
- DAWA 302 World Religion: Comparative Studies
- EDUC 200 Education and Societal Problems
- EDUC 201 Research Methods
- ENGL 150 Essay Writing I
- ENGL 151 Advanced Reading Comprehensions
- FREN 101 French I

Supplemental College/Program Package (0 - 12 CH)
The number of credit hours required for this package ranges from 0 to 12, depending on the program. When applicable, the required number of credit hours can be taken from a list of courses specific to each program and/or college. The specific courses to be completed by students are identified in the degree requirements of each program.

- HONS 100 Honors Freshman Seminar
- INTA 100 First Year Seminar
- INTA 101 Political and Social Thoughts
- INTA 103 Introduction to International Relations
- INTA 200 Study and Practice of Diplomacy
- INTA 301 Islamic Political Thought
- ISLA 202 Logic and Research Methodology
- LAWC 101 Introduction to Law
- MAGT 101 Principles of Management
- STAT 101 Statistics I
COLLEGE OF ARTS AND SCIENCES

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Website: http://www.qu.edu.qa/cas

Dean
Eiman Mustafawi

Associate Dean for Research and Graduate Studies
Mohamed Ahmedna

Associate Dean for Academic Affairs
Tahmina Rashid

Associate Dean for Outreach and Engagement
Fatima Mohammed H Al-Sowaidi

Associate Dean for Planning and Quality Assurance
Steven Wright

Assistant Dean for Student Affairs
Wesam Al-Madhoun

CHAPTER 12
COLEGES, ACADEMIC DEPARTMENTS, AND DEGREES

DEGREE OFFERINGS

- Bachelor of Arts in Arabic Language
- Bachelor of Arts in History
- Bachelor of Arts in International Affairs
- Bachelor of Arts in Mass Communication
- Bachelor of Arts in Policy, Planning, and Development
- Bachelor of Arts in Psychology
- Bachelor of Arts in Social Work
- Bachelor of Arts in Sociology
- Bachelor of Science in Biological Sciences
- Bachelor of Science in Biomedical Science
- Bachelor of Science in Chemistry
- Bachelor of Science in Environmental Science
- Bachelor of Science in Human Nutrition
- Bachelor of Science in Public Health
- Bachelor of Science in Statistics
- Bachelor of Science in Sport Science

The College of Arts and Sciences offers the following minors:
- Minor in Arabic
- Minor in Biological Sciences
- Minor in Chemistry
- Minor in Geology
- Minor in English
- Minor in Translation
- Minor in Human Nutrition
- Minor in History
- Minor in Philosophy
- Minor in International Affairs
- Minor in Policy Planning and Development
- Minor in Mass Communication
- Minor in Statistics
- Minor in Sociology
- Minor in Psychology

DEPARTMENT OF ARABIC LANGUAGE

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Salama Abdallah Al-Sowaidi, Rashid Bihabib, Ahmad Yousef, Aze-Eddine Bouchikhi, Rachid Bouziane, Abderrahmane Bouali, Mubarak Hanoun

Associate Professors:
Fatima Al-Sowaidi, Lolfi Al Yousfi, HabbibBouherour, Abdoul Salam Hamed, Mahmoud AlAssam, Maryam Al-Naemi, Hafid Ismaei, Iman Smadi, Hitham Sarhan, Louis Khalil, Mohammad Al-Abi, AbdelKader Faydouh

Assistant Professors:
Haya Al-Durham, Mohamed Al-Obaidi, Idris Alth Noora Faraj, Hanan Fyad, Hanady Mansour, Mohammad Mostafah Saleem, Ahmad Teama, Shahat Ghomid, Ahmad Haji Sallar

ABOUT THE DEPARTMENT

The Department of Arabic Language (DAL) aspires to achieve a distinction in the study of Arabic Language and Literature so that it enables Qatar University to occupy a prominent place among departments of Arabic in the region and internationally, by virtue of its high-quality teaching, research, community, and university services. It aims to implement advanced developments in the educational and pedagogical process which lead to achieving academic accreditation in the fields of education, research, and acquisition of linguistic skills. It aims to produce a new generation of educated graduates, capable of becoming the country’s elite in the field of leadership and intellectual endeavor to serve their language, country, and nation.

The Department aims to produce graduates with open minds to other cultures and civilizations, armed with strategies of dialogue and communication with man and technology. The mission of the Department of Arabic Language is to prepare specialists in linguistics and literary studies who are equipped with sufficient communicative skills and qualified to implement their knowledge and experience in the field of research as well as in the practical field of work which requires the use of Arabic language, its literature and expressive techniques. Thus, the students will be able to assimilate the heritage of the nation and be at the same time opened to the approaches of others and their schools of thought. In addition, the mission emphasizes the values of citizenship and national identity and develops the students’ skills in critical thinking, self-learning, and teamwork.

BACHELOR OF ARTS IN ARABIC LANGUAGE

Objectives

The objectives of the Arabic Language major are to:
- Enhance the effectiveness of Arabic language teaching methods.
- Develop students’ linguistic, communication and creative skills.
- Develop critical and literary skills through both collaborative and individual approaches.
- Develop a spirit of pride for the Arabic language, literature, and Islamic heritage.
Develop cultural dialogue and open-mindedness with other peoples and their cultures.

Major Requirements

The Requirements of the Department of Arabic Language (DAL) for admission in a Major in Arabic Language are:
1. Score a minimum of 75% on the final high school examination.
2. Score 75% in the subject of Arabic Language.
3. Pass the written admission test set by DAL for this purpose.
4. Pass the DAL oral examination.

Learning Outcomes

Graduates of the Arabic Language major are expected to be able to:
• Demonstrate high competence in the use of Arabic language in the fields of reading, writing, and scientific research.
• Employ Arabic language in expressing the needs of Arabic, and Islamic society.
• Effectively utilize resources of Arabic language, linguistics and literary tradition in a variety of scholarly activities.
• Distinguish the various periods of Arabic literature, literary schools and trends.
• Know the historical, theoretical and material context of the interaction between Arabic culture and other cultures.
• Distinguish the different linguistic theories, schools, and practices.
• Apply all acquired skills in research, analysis, criticism, and comparison.

Opportunities

The Department’s graduates will have the ability to fulfill the needs of the work market and the Qatari community, especially in pursuing the following work opportunities:
• University teaching assistant.
• Teaching in the educational field.
• Working as a newspaper journalist.
• Working as a professional in television or radio stations.
• Working to scrutinize the language and grammar in news institutions, public ministries, and other government organizations.
• Working in centers of literary creativity.
• Managing cultural activities in clubs or any field that requires critical thinking.
• Working in public relations and diplomatic service.

DEGREE REQUIREMENTS

Major in Arabic Language

A minimum of 120 credit hours are required to complete the major in Arabic Language, including the following:
• A minimum of 33 credit hours in core curriculum requirements
  • A minimum of 33 credit hours in major requirements
  • A minimum of 24 credit hours in concentration requirements.
  • A minimum of 24 credit hours in minor requirements.
  • A minimum of 6 credit hours of free electives

Core Curriculum Requirements (33 CH)

Common package (15 CH)
• ARAB 109 Language Skills
• ARAB 110 Introduction to Literature and Language
• ENGL 110 English I
• ENGL 111 English II
• DAWA 111 Islamic Culture

Social/Behavioral Sciences package (3 CH)
Courses in CCP defined Social/Behavioral Sciences package

Humanities /Fine Arts package (6 CH)
Courses in CCP defined Humanities/Fine Arts package.

Literature Concentration Core Requirements (15 CH)
Students must complete a minimum of 15 credit hours in Literature concentration core requirements including 6 CH from the Literature Language Requirements I sub-package or 6 CH from the Literature Language Requirements II sub-package as detailed below. Students must have successfully completed 18 credit hours from the Major compulsory courses before registering in the concentration area courses.

Literature Concentration Core Requirements I (5 CH)
• ARAB 221 Classical Arabic Poetry I
• ARAB 319 Grammar II
• ARAB 218 Morphology
• ARAB 213 Classical Arabic Poetry I
• ARAB 222 Classical Arabic Prose
• ARAB 223 Classical Arabic Poetry
• ARAB 326 Literary Analysis
• ARAB 492 Capstone on Arabic Literature

Literature Language Requirements I sub-package (6 CH)
• ARAB 271 Persian Language I
• ARAB 272 Persian Language II
• ARAB 391 Literary Research Sources and Methods
• ARAB 412 Readings and Linguistics Traditions
• ARAB 464 Socio-Linguistics
• ARAB 491 Topics in contemporary Arab thought

Literature Language Requirements II sub-package (6 CH)
• TURK 201 Turkish I
• TURK 201 Turkish II

Literature Concentration Core Requirements II (5 CH)
Students must complete a minimum of 15 credit hours in Literature concentration core requirements including 6 CH from the Literature Language Requirements I sub-package or 6 CH from the Literature Language Requirements II sub-package as detailed below.

Literature Concentration Electives I (6 CH)
• ARAB 355 Applied Linguistics
• ARAB 352 Philology
• ARAB 354 Semantics
• ARAB 262 Prosody and Metrics

Literature Concentration Electives II (3 CH)
• ARAB 412 Readings and Linguistics Traditions
• ARAB 464 Socio-Linguistics
• ARAB 491 Topics in contemporary Arab thought
• ARAB 434 Orientalism and its Criticism

Concentration in Literature (24 CH)
Students must complete a minimum of 24 credit hours in concentration requirements as detailed below. Students must have successfully completed 18 credit hours from the Major compulsory courses before registering in the concentration area courses.

Literature Concentration Core Requirements (15 CH)
Students must complete a minimum of 15 credit hours in Literature concentration core requirements including 6 CH from the Literature Language Requirements I sub-package or 6 CH from the Literature Language Requirements II sub-package as detailed below.

Literature Concentration Electives I (6 CH)
• ARAB 221 Classical Arabic Poetry I
• ARAB 319 Grammar II
• ARAB 222 Classical Arabic Poetry I
• ARAB 223 Classical Arabic Poetry
• ARAB 224 Classical Arabic Prose
• ARAB 225 Modern Arabic Criticism
• ARAB 412 Readings and Linguistics Traditions
• ARAB 464 Socio-Linguistics
• ARAB 491 Topics in contemporary Arab thought

Literature Concentration Electives II (3 CH)
• ARAB 391 Literary Research Sources and Methods
• ARAB 412 Readings and Linguistics Traditions
• ARAB 464 Socio-Linguistics
• ARAB 491 Topics in contemporary Arab thought
• ARAB 434 Orientalism and its Criticism

Minor Requirements (24 CH)
Students must complete a minimum of 6 CH taken from the following Minor electives courses:
• ARAB 262 Prosody and Metrics
• ARAB 319 Classical Arabic Poetry
• ARAB 354 Semantics
• ARAB 352 Philology

Arabic Minor Electives I Package (6 CH)
Students must complete a minimum of 6 CH taken from the following Minor electives courses:
• ARAB 262 Prosody and Metrics
• ARAB 319 Classical Arabic Poetry
• ARAB 354 Semantics
• ARAB 352 Philology

Arabic Minor Electives II Package (6 CH)
Students must complete a minimum of 6 CH taken from the following Minor electives courses:
• ARAB 262 Prosody and Metrics
• ARAB 319 Classical Arabic Poetry
• ARAB 354 Semantics
• ARAB 352 Philology

Arabic Minor Electives I Package (6 CH)
Students must complete a minimum of 6 CH taken from the following Minor electives courses:
• ARAB 262 Prosody and Metrics
• ARAB 319 Classical Arabic Poetry
• ARAB 354 Semantics
• ARAB 352 Philology

Arabic Minor Electives II Package (6 CH)
Students must complete a minimum of 6 CH taken from the following Minor electives courses:
• ARAB 262 Prosody and Metrics
• ARAB 319 Classical Arabic Poetry
• ARAB 354 Semantics
• ARAB 352 Philology
**Study Plan**  
Bachelor of [Arabic Language] in [Concentration: Linguistics]

### FIRST YEAR (30 credit hours)

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**Study Plan**  
Bachelor of [Arabic Language] in [Concentration: Literature]

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</table>
DEPARTMENT OF ENGLISH LITERATURE AND
LINGUISTICS

Women’s Main Building, Room -145 (Women’s Section)
Phone: (974) 4403-4917
E-mail: m.gammar@qu.edu.qa
Website: http://www.qu.edu.qa/artssciences/english/
index.php

Head
Rizwan Ahmad

Faculty
Professors:
Sabry Hafez, Haifa Al-Busainain
Associate Professors:
Darwish Al-Emadi, Sky Marsen
Assistant Professors:
Emam Mustafawi, Sara Al-Mohannadi, , Rizwan Ahmad,
Eirini Theodoropoulou, Kim Sturgess, Tarq Kwaileh, Erin
Holliday-Karre, Julieta Alos, Yomma Ismail

Lecturers:
Igihl Ahmed, John Herlihy

Teaching Assistants:
Afra Hassan Al-Kholifi, Fatima Al-Abdulla, Noora Al-Kaabi,
Afra Mubarak Al-Qahtani

ABOUT THE DEPARTMENT

The Department of English Literature and Linguistics provides high-quality, student-centered education in a positive learning and research environment. Students acquire a broad knowledge of English literature and linguistics. They then choose to develop advanced knowledge and skills in either area. The program equips graduates to become leaders in their careers, and it enhances their awareness and appreciation of human values and the literature, culture and language of others.

BACHELOR OF ARTS IN ENGLISH LITERATURE AND
LINGUISTICS

Educational objectives
• Enable students to develop effective communication skills.
• Develop students’ appreciation for the diversities of languages and cultures.
• Familiarize students with linguistics, its sub-branches, applications and relations to other disciplines.
• Introduce students to the various literary genres of English in their historical, cultural and artistic contexts.
• Develop students’ critical thinking skills and enhance their ability to produce logical and well-structured arguments.

Admission Requirements
Applicants must satisfy the minimum high school percentage requirement for the College in the semester of admission. A minimum score of 500 on the TOEFL 5.5 on the IELTS or 61 on the IBT is required. In addition, applicants must score above the cut-off percentage in the entrance test and interview held by the Department.

Learning Outcomes
• Demonstrate the ability to read, communicate and write clearly in English.
• Apply the skills of analyzing English language and culture to students’ own language and culture and those of others.
• Relate the phenomena of language and literature to their social, cultural and psychological contexts.
• Analyze critically literary genres within their historical, social, and intellectual contexts.
• Demonstrate theoretical knowledge and competence in the use of practical methods in literature and linguistics.

Opportunities
Graduates in English Literature and Linguistics will be qualified to work as English teachers, translators, and in the field of communication. They could also work in mass media organizations: newspapers, radio and television. In addition, they could work in non-governmental organizations, the private sector, international aid and development agencies, community services, social organizations, and research organizations.

DEGREE REQUIREMENTS

Major in English
A minimum of 120 credit hours are required to complete the major in English, including the following:
• A minimum of 33 credit hours in Core Curriculum requirements
• A minimum of 27 credit hours in Major requirements
• A minimum of 24 credit hours in Concentration Requirements and Electives
• A minimum of 24 credit hours in Minor requirements
• A minimum of 12 credit hours in Free Electives

Core Curriculum Requirements (33 CH)
Common package (15 CH)
• ARAB 100 Arabic Language I
• ARAB 200 Arabic Language II
• ENGL 150 Essay Writing I

• ENGL 151 Advanced Reading Comprehension
• DAWA 111 Islamic Culture

Social/Behavioral Sciences package (3 CH)
Courses in CCP defined Social/Behavioral Sciences package

Humanities/Fine Arts package (6 CH)
Courses in CCP defined Humanities/Fine Arts package. Students must complete a minimum of 3 Credit Hours from courses listed in the Qatar and Gulf History Sub-package which is part of the Humanities/Fine Arts package.

Natural Science/Mathematics package (3 CH)
Courses in CCP defined Natural Science/Mathematics package

General Knowledge package (3 CH)
Courses in CCP defined General Knowledge package

General Skills package (3 CH)
Courses in CCP defined General Skills package

Major Requirements (27 credit hours)
Students must complete a minimum of 27 credit hours in Major required courses:
• ENGL 153 Essay Writing II
• ENGL 155 Introduction to Language
• ENGL 156 Introduction to Literature I
• ENGL 157 Introduction to Linguistics
• ENGL 158 Introduction to Literature II
• ENGL 220 Professional Writing
• ENGL 208 Literary Criticism
• ENGL 226 History of the English Language
• ENGL 499 Capstone Course (Integrated Skills)

Concentration in Linguistics (24 CH)
Major requirements must complete a minimum of 9 CH in concentration core requirements and a minimum of 15 CH in concentration electives

Linguistics Concentration Core Requirements (9 CH)
Students must complete a minimum of 9 credit hours in concentration core requirements.
• ENGL 216 Phonetics & Phonology
• ENGL 301 Syntax
• ENGL 303 Sociolinguistics

Linguistics Concentration Electives (15 CH)
Students must complete a minimum of 15 credit hours in concentration electives from specific packages. Students must complete a minimum of 3 CH in each of the Period, Genre, and Literature Special Topics packages.

Linguistics Concentration Electives (15 CH)
Students must complete a minimum of 15 credit hours in concentration electives from specific packages. Students must complete a minimum of 3 CH in each of the Period, Genre, and Literature Special Topics packages.

Period package (3 CH)
• ENGL 306 Medieval Literature
• ENGL 308 Renaissance to Restoration
• ENGL 314 Augustan to Romantic

Meaning, Research Techniques, and Linguistics Special Topics packages.

Language Across Disciplines Package (3 CH)
• ENGL 234 Language and Gender
• ENGL 209 Language and Society

English and Culture
• ENGL 233 Language and Computer

Language and Psychology Package (3 CH)
• ENGL 305 First Language Acquisition
• ENGL 307 Second Language Acquisition

Language and Meaning Package (3 CH)
• ENGL 319 Semantics
• ENGL 327 Discourse Analysis

Research Techniques Package (3 CH)
• ENGL 401 Speech Sounds
• ENGL 403 Field Methods

Linguistics Special Topics Package (3 CH)
• ENGL 423 Seminar in Linguistics
• ENGL 425 Topics in Linguistics
• ENGL 448 Independent Study

Concentration in Literature (24 CH)
Students must complete a minimum of 9 CH in concentration core requirements.
• ENGL 220 American Literature
• ENGL 302 Comparative Literature
• ENGL 304 Shakespearean

Literature Concentration Electives (15 CH)
Students must complete a minimum of 15 credit hours in concentration electives from specific packages. Students must complete a minimum of 3 CH in each of the Period, Genre, and Literature Special Topics packages.

Genre package (3 CH)
• ENGL 326 Poetry
MINOR IN ENGLISH

The Minor in English offers a variety of courses in writing, literature, and linguistics which allow students to develop advanced communicative and critical thinking skills. It also enables them to appreciate the diversity of languages and cultures.

Minor in English (24 CH)

Students seeking a minor in English must complete 24 credit hours, including the following:

- 15 credit hours in Minor Requirements
- 9 credit hours in Minor Electives

Minor Requirements (15 CH)

Students must complete a minimum of 15 credit hours in Minor Required courses:

- ENGL 153 Introduction to Linguistics
- ENGL 156 Introduction to Literature I
- ENGL 158 Introduction to Literature II

Minor Electives (9 CH)

Students must complete a minimum of 9 credit hours in Minor Electives courses:

- ENGL 230 Professional Writing
- ENGL 220 American Literature
- ENGL 234 Language and Gender
- ENGL 209 Language and Society
- ENGL 213 Language and Culture
- ENGL 302 Comparative Literature
- ENGL 303 Sociolinguistics
- ENGL 305 First Language Acquisition
- ENGL 307 Psycholinguistics
- ENGL 309 Second Language Acquisition
- ENGL 320 Drama
- ENGL 330 The Short Story
- ENGL 400 Women's Literature
- ENGL 402 Text and Film
- ENGL 426 Children’s Literature

MINOR IN TRANSLATION

The Minor in Translation is designed to develop translation skills for students interested in acquiring an advanced level of proficiency in Arabic/English translation. The minor offers hands-on experience in the translation of a variety of texts from English to Arabic and vice versa. The minor aims at developing students’ awareness of the cultural and linguistic challenges involved in translation as well as preparing them to pursue advanced degrees in the field.

Admission Requirements for the Minor:

- Students must obtain a TOEFL score of 500 or equivalent, and
- Pass the department admission test.

Minor in Translation (24 CH)

Students seeking a minor in Translation must complete a minimum of 24 credit hours, including the following:

- A minimum of 15 credit hours in Minor Requirements
- A minimum of 9 credit hours in Minor Electives

Minor Core Requirements (15 CH)

Students must complete a minimum of 15 credit hours in Minor Required courses:

- TRAN 201 Principles and Strategies of Translation
- TRAN 202 Theoretical and Practical Models of Translation
- TRAN 301 Media Translation I
- TRAN 302 Specialized Translation I
- TRAN 303 Intercultural Communication

Minor Elective Courses (9 CH)

Students must complete a minimum of 9 credit hours in Minor Elective courses:

- TRAN 310 Functional Arabic Grammar for Translators
- TRAN 311 Functional English Grammar for Translators
- TRAN 312 Linguistic Comparison of Arabic & English
- TRAN 313 Discourse Analysis for Translators
- TRAN 314 Media Translation II
- TRAN 315 Specialized Translation II
- TRAN 401 Rhetoric for Translators

STUDY PLAN FOR LINGUISTICS TRACK

Bachelor of Arts in English Literature and Linguistics

First Year (30 credit hours)

Term | Course # | Course Title | Credit Hours
--- | --- | --- | ---
Fall | ENGL 150 | Essay Writing I | 3
| ENGL 151 | Advanced Reading Comprehension | 3
| ENGL 155 | Introduction to Language | 3
| ENGL 156 | Introduction to Literature I | 3

Total Credit Hours in Semester: 15

Spring | ENGL 153 | Essay Writing II | 3
| ENGL 157 | Introduction to Linguistics | 3
| ENGL 158 | Introduction to Literature II | 3
| Core Curriculum | Core Curriculum | 3
| Core Curriculum | Core Curriculum | 3

Total Credit Hours in Semester: 15

Second Year (30 credit hours)

Term | Course # | Course Title | Credit Hours
--- | --- | --- | ---
Fall | ENGL 220 | History of the English Language | 3
| ENGL 201 | Introduction to Philosophy | 3
| ENGL 202 | Introduction to Literature I | 3
| ENGL 203 | Introduction to Literature II | 3
| ENGL 204 | Introduction to Literature III | 3
| Core Curriculum | Core Curriculum | 3
| Free Elective | Free Elective | 3

Total Credit Hours in Semester: 15

Third Year (30 credit hours)

Term | Course # | Course Title | Credit Hours
--- | --- | --- | ---
Fall | ENGL 230 | Professional Writing | 3
| ENGL 208 | Literary Criticism | 3
| ENGL 216 | Phonetics and Phonology | 3
| Core Curriculum | Core Curriculum | 3
| Free Elective | Free Elective | 3

Total Credit Hours in Semester: 15

Fourth Year (30 credit hours)

Term | Course # | Course Title | Credit Hours
--- | --- | --- | ---
Fall | Research Techniques | Package Course | 3
| Minor Course 5 | Minor Course 5 | 3
| Minor Course 6 | Minor Course 6 | 3
| Core Curriculum | Core Curriculum | 3
| Free Elective | Free Elective | 3

Total Credit Hours in Semester: 15

Spring | ENGL 499 | Capstone Course (Integrated Skills) | 3
| Core Curriculum | Core Curriculum | 3
| Free Choice Package Course | Free Choice Package Course | 3

Total Credit Hours in Semester: 15
### Study Plan for Literature Track
Bachelor of Arts in English Literature and Linguistics

#### FIRST YEAR (30 credit hours)

<table>
<thead>
<tr>
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<th>Course #</th>
<th>Course Title</th>
<th>Credit Hours</th>
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<td>ENGL 151</td>
<td>Advanced Reading Comprehension</td>
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<td>ENGL 155</td>
<td>Introduction to Language</td>
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<td>ENGL 156</td>
<td>Introduction to Literature I</td>
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#### SECOND YEAR (30 credit hours)

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<td>ENGL 226</td>
<td>History of the English Language</td>
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<td>ENGL 220</td>
<td>American Literature</td>
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#### THIRD YEAR (30 credit hours)

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<td>ENGL 304</td>
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<tr>
<td>Spring</td>
<td>ENGL 499</td>
<td>Capstone Course (Integrated Skills)</td>
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#### DEPARTMENT OF HUMANITIES

Women’s Main Building, Rooms 142 and 143 (Women’s Section)
Men’s Main Building, Room 120 (Men’s Section)
Phone: (974) 4403-4700 / 4704 / 4705
E-mail: headdephumanities@qu.edu.qa
Website: http://www.qu.edu.qa/artssciences/humanities

Head
Mahjoob Zweiri

Faculty

Professors:
Safia Shaheen Al-Murakhli, Ibrahim Muhammad Shahdad, Ahmed Abushouk, Nezam Abbasii, Ahmed Ibrahim, Ahmad Sakaani

Associate Professors:

Assistant Professors:

Teaching Assistant:
Abdulrazaq Al闽nali

Graduate Assistant:
Abdulrahman Yousif Al-Abdula
Abdullah Haider
Dawatif Al Nuaimi

ABOUT THE DEPARTMENT

The Department of Humanities is one of the leading departments in the State of Qatar and humanity at large. Their research results have been disseminated internationally through publications, as well as through international and regional conferences. Moreover, some of their research projects have been supported by national and international grants.

The Department of Humanities continues to serve the Qatar society in various capacities, including community outreach programs, professional development activities, and collaborative partnerships with various sectors of the national and international community.

BACHELOR OF ARTS IN HISTORY

Objectives
1. Encourage students to see cause and effect relationship over time and across civilizations by using a mixed chrono-logical, thematic, and topical approach.
2. Expand students' ability to understand the chronological relationship between geography and history, resulting in an understanding of difference of lifestyles, cultures, and patterns of social interactions.
3. Enhance students' recognition and understanding of major turning points in history.
4. Improve students' communication skills by encouraging them to interpret, analyze, defend, and advocate positions via writing and oration, based on their study of global and regional history.

Major Declaration
Applicants must satisfy the minimum high School percent-age requirement for the major and must have completed a minimum of 12 CH in the core curriculum program require-ments with a minimum cumulative GPA of 2.0. A personal interview is also required.

Learning Outcomes
Graduates of the History major will succeed in achieve-ment and mastery of the program level learning outcomes below:
- Analyze the evolution and distinctive characteristics of...
Courses in CCP defined Humanities/Fine Arts package.

Humanities /Fine Arts package (6 CH)

- ENGL 250 English for Communication I
- ENGL 251 English for Communication II

Major Requirements (27 CH)

Students must complete a minimum of 27 credit hours in Major-required courses:

- HIST 103 An Introduction to History
- HIST 111 History of the Muslim World I (600 –1187)
- HIST 121 History of Qatar
- HIST 131 World History Since 1300
- HIST 204 Historiography
- HIST 212 History of the Muslim World II (1187 - 1516)
- HIST 213 Modern Arab History (1516-1919)
- HIST 370 Modern Arab History since 1919
- HIST 407 Capstone

Major Electives (6 CH)

Students must complete a minimum of 6 credit hours in Major-electives courses:

- HIST 334 Arabian Gulf in Antiquity
- HIST 336 Women and Gender in the Ancient Near East
- HIST 380 The Making of Modern America
- HIST 390 The History of Modern China and Japan
- INTA 302 Politics of Oil
- HIST 427 Muslim Minorities in the World
- HIST 436 Intellectual History of Europe in the 20th Century
- HIST 470 Modern Latin American History
- INTA 345 The Arab Israeli Conflict

Focus Area (15 CH)

Students must select one of the three Focus Areas Packages namely the Islamic History Focus Area Package, the European History Focus Area Package, or the Modern Gulf History Focus Area Package.

The Islamic History Focus Area Package (15 CH)

Students must complete a minimum of 3 CH in The Islamic History Focus Area Requirements Package, a minimum of 6 CH in The Islamic History Focus Area Electives Package, a minimum of 3 CH from The Islamic History Focus Area Additional Electives I Package, and a minimum of 3 CH from The Islamic History Focus Area Additional Electives II Package.

The Islamic History Focus Area Requirements Package (3 CH)

- HIST 217 Islamic Civilization

The Islamic History Focus Area Electives Package (6 CH)

Students must complete a minimum of 6 credit hours in the focus area elective courses:

- HIST 314 Economic & Social History of the Muslim World
- HIST 318 History of Al-Andalus
- HIST 319 History of the Crusades (The Franks Invasion)
- HIST 320 History of Islamic Sects and Movements
- HIST 415 History of Science in Islam
- HIST 416 History of Islamic Arts and Architecture
- HIST 417 Topics in Islamic History

The Islamic History Focus Area Additional Electives I Package (3 CH)

Students must complete a minimum of 3 credit hours taken from the Modern Gulf History Focus Area Electives Package.

The Islamic History Focus Area Additional Electives II Package (3 CH)

- HIST 418 Islamic Arts
- HIST 419 Islamic Architecture
- HIST 420 Islamic Economic History
- HIST 421 The Gulf and the Arab World

Area Additional Electives I Package, and a minimum of 3 CH from The Islamic History Focus Area Additional Electives II Package.

The Modern Gulf History Focus Area Requirements Package (3 CH)

- HIST 222 The Gulf in Modern Period

The Modern Gulf History Focus Area Electives Package (6 CH)

Students must complete a minimum of 6 credit hours in the focus area elective courses:

- HIST 322 Iran and its Neighbours
- HIST 323 Gulf-South Asian Relations in modern and contemporary history
- HIST 324 Economic History of the Gulf
- HIST 421 The Gulf and the Arab World

• SOCI 462 Change in Contemporary Arab Society
• HIST 425 Topics in Gulf History

The Modern Gulf History Focus Area Additional Electives I Package (3 CH)

Students must complete a minimum of 3 credit hours taken from the Islamic History Focus Area Requirements or Electives Packages.

The Modern Gulf History Focus Area Additional Electives II Package (3 CH)

Students must complete a minimum of 3 credit hours taken from the European History Focus Area Requirements or Electives Packages.

The European History Focus Area Package (15 CH)

Students must complete a minimum of 3 CH in The European History Focus Area Requirements Package, a minimum of 3 CH in The European History Focus Area Electives Package, a minimum of 3 CH in The European History Focus Area Additional Electives I Package, and a minimum of 3 CH from The European History Focus Area Additional Electives II Package.

The European History Focus Area Requirements Package (3 CH)

- HIST 231 Europe and the World since 1500 CE

The European History Focus Area Electives Package (6 CH)

Students must complete a minimum of 6 credit hours in the focus area elective courses:

- HIST 331 Ancient Greece and Rome, 1200 BCE to 500 CE
- HIST 332 Medieval Europe, 500 to 1400 CE
- HIST 333 The Renaissance and Reformation, 1400 to 1648
- HIST 337 The Age of Absolutism and Revolution, 1648 to 1815
- HIST 431 Nationalism and its Consequences, 1815 to 1914
- HIST 432 Europe Between the Two World Wars, 1914-1945
- INTA 433 Europe, the Cold War and the World since 1945
- HIST 434 Topics in European History

The European History Focus Area Additional Electives I Package (3 CH)

Students must complete a minimum of 3 credit hours taken from the Islamic History Focus Area Requirements or Electives Packages.

Opportunities

The program provides graduates opportunities in government organizations such as ministries, diplomatic offices, the media sector, authorities and councils, and also non-governmental organizations including hotels, tourism agencies and publishing houses. In addition, graduates are highly demanded for work at museums, libraries and research centers. Also, Qatar University, as well as other universities, have employment openings for graduates.

DEGREE REQUIREMENTS

Major in History

A minimum of 120 credit hours are required to complete the major in History, including the following:

- A minimum of 33 credit hours in Core Curriculum requirements
- A minimum of 27 credit hours in Major requirements
- A minimum of 6 credit hours in Major Electives
- A minimum of 6 credit hours in a Focus Area package
- A minimum of 6 credit hours in the language requirement package
- A minimum of 24 credit hours in Minor Requirements
- A minimum of 9 credit hours in Free Electives

Core Curriculum Program (33 credit hours)

Common package (15 CH)

- ARAB 100 Arabic Language I
- ARAB 200 Arabic Language II
- ENGL 110 English I
- ENGL 111 English II
- DAWA 111 Islamic Culture

Social/Behavioral Sciences package (3CH)

Courses in CCP defined Social/Behavioral Sciences package

Humanities /Fine Arts package (6 CH)

Courses in CCP defined Humanities/Fine Arts package.

Students must complete a minimum of 3 Credit Hours from courses listed in the Qatar and Gulf History Sub-package which is part of the Humanities/Fine Arts package.

Natural Science/Mathematics package (3 CH)

Courses in CCP defined Natural Science/Mathematics package

Supplemental College / Program core requirements package (6 CH)

• ENGL 250 English for Communication I
• ENGL 251 English for Communication II

Students must complete a minimum of 3 Credit Hours from The Islamic History Focus Area Additional Electives I Package, and a minimum of 3 CH from The Islamic History Focus Area Additional Electives II Package.

The Islamic History Focus Area Requirements Package (3 CH)

- HIST 217 Islamic Civilization

The Islamic History Focus Area Electives Package (6 CH)

Students must complete a minimum of 6 credit hours in the focus area elective courses:

- HIST 314 Economic & Social History of the Muslim World
- HIST 318 History of Al-Andalus
- HIST 319 History of the Crusades (The Franks Invasion)
- HIST 320 History of Islamic Sects and Movements
- HIST 415 History of Science in Islam
- HIST 416 History of Islamic Arts and Architecture
- HIST 417 Topics in Islamic History

The Islamic History Focus Area Additional Electives I Package (3 CH)

Students must complete a minimum of 3 credit hours taken from the Modern Gulf History Focus Area Electives Package or Electives Packages.

The Islamic History Focus Area Additional Electives II Package (3 CH)

Students must complete a minimum of 3 credit hours taken from the European History Focus Area Requirements or Electives Packages.

The European History Focus Area Package (15 CH)

Students must complete a minimum of 3 CH in The European History Focus Area Requirements Package, a minimum of 3 CH in The European History Focus Area Electives Package, a minimum of 3 CH in The European History Focus Area Additional Electives I Package, and a minimum of 3 CH from The European History Focus Area Additional Electives II Package.

The European History Focus Area Requirements Package (3 CH)

- HIST 231 Europe and the World since 1500 CE

The European History Focus Area Electives Package (6 CH)

Students must complete a minimum of 6 credit hours in the focus area elective courses:

- HIST 331 Ancient Greece and Rome, 1200 BCE to 500 CE
- HIST 332 Medieval Europe, 500 to 1400 CE
- HIST 333 The Renaissance and Reformation, 1400 to 1648
- HIST 337 The Age of Absolutism and Revolution, 1648 to 1815
- HIST 431 Nationalism and its Consequences, 1815 to 1914
- HIST 432 Europe Between the Two World Wars, 1914-1945
- INTA 433 Europe, the Cold War and the World since 1945
- HIST 434 Topics in European History

The European History Focus Area Additional Electives I Package (3 CH)

Students must complete a minimum of 3 credit hours taken from the Islamic History Focus Area Requirements or Electives Packages.
The European History Focus Area Additional Electives
II Package (3 CH)
Students must complete a minimum of 3 credit hours taken from the Modern Gulf History Focus Area Requirements or Electives Packages.

Language Requirements Package (6CH)
Students must complete a minimum of 6 credit hours in one of the three language requirement packages depending on the selected focus area. The three language requirement packages are: The Islamic History Focus Area Language Requirement package, The Modern Gulf History Focus Area Language Requirement package, and the European History Focus Area Language Requirement package.

The Islamic History Focus Area Language Requirement package (6 CH)
Students must complete a minimum of 6 credit hours taken from the Persian Language Package or the Turkish Language Package.

The Modern Gulf History Focus Area Language Requirement package (6 CH)
Students must complete a minimum of 6 credit hours taken from the French Language Package or the Turkish Language Package.

The European History Focus Area Language Requirement package (6 CH)
Students must complete a minimum of 6 credit hours taken from the French Language Package or the Turkish Language Package.

The Persian Language package (6 CH)
• ARAB 271 Persian 1
• ARAB 272 Persian 2

The Turkish Language package (6 CH)
• TURK 101 Turkish 1
• TURK 202 Turkish 2

The French Language package (6 CH)
• FREN 101 French 1
• FREN 201 French 2

The Spanish Language package (6 CH)
• SPAN 101 Spanish 1
• SPAN 201 Spanish 2

Minor Requirements (24 CH)
Students enrolled in the History program may take any of the Minors offered within the university. If the minor the students enrolled in is less than 24 CH, students must take additional courses as free electives to complete the 24 CH Minor requirements.

Free Electives (9 credit hours)
Students must complete a minimum of 9 Credit Hours in free electives from courses outside the History major.

MINOR IN HISTORY
The minor in history is an excellent opportunity for students who are interested in providing depth to their chosen major through gaining a historical perspective in their area of specialization. Adding an interdisciplinary aspect to a degree, this minor allows students to learn about history as a science, providing training in the use of basic tools and methods in the study of history. Through a wide range of approaches, students will be exposed to both modern and ancient history, tailoring choices to their specific interests.

Minor in History (24 CH)
Students seeking a minor in History must complete a minimum of 24 credit hours, including the following:
• A minimum of 12 credit hours in Minor requirements
• A minimum of 12 credit hours in Minor electives

Minor Requirements (12 CH)
Students must complete a minimum of 12 credit hours in Minor-required courses:
• HIST 103 An Introduction to History
• HIST 111 History of the Muslim World I (600 –1187)
• HIST 131 World History Since 1300
• HIST 213 Modern Arab History (1516 –1919)

Minor Electives (12 CH)
Students must complete a minimum of 12 credit hours in Minor elective, those credits can be selected from the list of the major electives or any of the focus areas (Islamic History Focus, Modern Gulf History Focus and European History); the courses including:
• HIST 354 Arabian Gulf in Antiquity
• HIST 336 Women and Gender in the Ancient Near East
• HIST 380 The Making of Modern America
• HIST 390 The History of Modern China and Japan
• INTA 302 Politics of Oil
• HIST 427 Muslim minorities in the world
• HIST 436 Intellectual History of Europe in the 20th Century
• HIST 470 Latin American History
• INTA 345 The Arab Israeli Conflict
• HIST 217 Islamic Civilization
• HIST 314 Economic & Social History of the Muslim World
• HIST 318 History of Al-Andalus
• HIST 319 History of the Crusades (The Franks Invasion)
• HIST 415 History of Science in Islam
• HIST 416 History of Islamic Arts and Architecture
• HIST 417 Topics in Islamic History
• HIST 222 The Gulf in Modern Period
• HIST 332 Iran and its Neighbours
• HIST 323 Gulf-South Asian Relations in Modern and Contemporary History
• HIST 324 Economic History of the Gulf
• HIST 421 The Gulf and the Arab World
• SOCI 462 Change in Contemporary Arab Society
• HIST 231 Europe and the World since 1500 CE
• HIST 331 Ancient Greece and Rome, 1200 BCE to 500 CE
• HIST 332 Medieval Europe, 500 to 1400 CE
• HIST 333 The Renaissance and Reformation, 1400 to 1668
• HIST 337 The Age of Absolutism and Revolution, 1648 to 1815
• HIST 431 Nationalism and its Consequences, 1815 to 1914
• HIST 432 Europe Between the Two World Wars, 1914-1945
• INTA 433 Europe, the Cold War and the World since 1945
• HIST 434 Topics in European History

MINOR IN PHILOSOPHY
The minor in philosophy engages students with a range of philosophical subjects, problems, schools of thought, and a survey of their historical development, along with rigorous training of a wide-ranging, highly transferable critical thinking skill set; all aimed at enhancing the students general educational experience at Qatar University.

Minor in Philosophy (24 CH)
A minimum of 24 credit hours are required to complete the minor in Philosophy, including the following:
• A minimum of 18 credit hours in the Minor Requirements
• A minimum of 6 credit hours in the Minor Electives

Minor Requirements (18 CH)
Students must complete the following courses:
• PHIL 100 Logic and Critical Thinking
• PHIL 110 Introduction to Philosophy
• PHIL 200 Introduction to Ethics
• PHIL 210 Islamic Philosophy
• PHIL 300 Knowledge and Reality
• PHIL 310 Philosophy and Contemporary Life

Minor Electives (6 CH)
Students must complete a minimum of 6 credit hours in courses selected from the following:
• PHIL 320 Asian Values
• PHIL 330 Philosophy of History
• PHIL 400 Philosophy of Science
• PHIL 410 Special Topics

98  99
# Bachelor of Arts in History

## Study Plan for History

### Term Course # Course Title Credit Hours

#### FIRST YEAR (30 credit hours)

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### DEPARTMENT OF INTERNATIONAL AFFAIRS

College of Arts and Sciences,  
Women’s Building C01-108  
Phone: (974) 4403-4930  
E-mail: lap@qu.edu.qa  
Website: http://www.qu.edu.qa/artssciences/international_affairs

#### Head

Youcef Bouandeld

#### Faculty

Professors:

Husam Mohammad, Adnan Mohammad Hayajneh, Muhammad Ajmal Khan

Associate Professors:

Jacqueline Armiyo, Youcef Bouandeld, Larbi Sadiki, Steven Wright

Assistant Professors:

Mazhar Al-Zo by, Farhan Chak, Afyare Elmi, Lina Kassim, Hatoo Al-Fassi, Imad Mansour, Layla Saleh, Brahim Saady, Remi Benot Piet, Hassan Brahim

#### Lecturers:

Thayyiba Ibrahim; Tamadher Al Malki

#### Teaching Assistants:

Hend Al-Sulait, Fatema AI, Alfemeen Sal Al-Naimi, Aisha Hadi Al-Rashid, Eman Sultan Al Maadeed, Maryam Al Kuwari

### ABOUT THE DEPARTMENT

The Department of International Affairs offers an inter-disciplinary degree focused on generating knowledge and understanding the politics, histories, economies, and cultures of modern global societies. Through focusing on national, regional, and international issues, the degree seeks to prepare its graduates to thrive in an increasingly interdependent global community by grounding them in independent critical thinking, leadership skills, global awareness, tolerance, and social responsibility. Graduates will be ready for further study and professional careers in both the public and private sectors.

### BACHELOR OF ARTS IN INTERNATIONAL AFFAIRS

#### Objectives

The major in International Affairs strives to:

- Provide Qatari society with highly-qualified graduates in order to support the development of a knowledge-based society, in accordance with Qatar University's mission.
- Train future leaders with advanced knowledge and research skills to meet the needs of Qatari society in the areas of politics, domestic and international affairs, and international institutions.
- Provide students with the skills and knowledge to appreciate and understand the world and its pluralistic heritage in terms of history, cultures, politics, norms, values, economics, and religions.
- Fostering an understanding of the dynamics of globalization and its impact on global and local contexts.
- Providing Qatar with highly competent graduates who understand the contemporary national, regional and global challenges facing society today.

#### Major Declaration

Applicants must satisfy the minimum high school percent- age requirement for the major in the semester of admission. In addition, students must have successfully completed a minimum of 12 Credit Hours from the Core Curriculum and achieved a GPA of 2.3. Students will also have to pass an interview. Transfer applicants must have earned a minimum cumulative GPA of 2.3.

#### Additional Requirements

To receive a BA in International Affairs, students must complete the 120 credit hour approved study plan of the major. Students must also achieve a minimum cumulative GPA of 2.0. With the help and supervision of an assigned advisor, students under the newly proposed program will have to diversify their coursework by the end of their sophomore year to include departmental concentrations and/or a Minor.

#### Learning Outcomes

- Analyze global issues, systems and trends from a variety of disciplinary perspectives (political, cultural, economic, geographic, and diplomatic).
- Utilize discipline-specific information from appropriate sources.
- Explain the importance of the histories, politics, cultures and perspectives of different regions of the world.
- Analyze the political, economic, diplomatic and strategic role of Qatar in the Gulf and the region.
- Evaluate the political and economic impact of energy and natural resources on modern societies and international affairs.
- Apply qualitative and quantitative research methods skills to international affairs related issues.
- Communicate findings clearly, analytically and persuasively in both oral and written formats.
Opportunities
Graduates will be ready for further study and professional careers in public and private sectors, including international affairs, international organizations, government, media, civil service and journalism.

DEGREE REQUIREMENTS

Major in International Affairs
A minimum of 120 credit hours are required to complete the major in International Affairs, including the following:
• A minimum of 33 credit hours in Core Curriculum requirements
• A minimum of 39 credit hours in Major Electives
• A minimum of 24 credit hours in either a Minor or in Concentration requirements
• A minimum of 6 credit hours in Free Electives

Core Curriculum Requirements (33 CH)

Common package (15 CH)
• ARAB 100 Arabic Language I
• ARAB 200 Arabic Language II
• ENGL 110 English I
• ENGL 111 English II
• DAWA 111 Islamic Culture

Social/Behavioral Sciences package (3CH)
Courses in CCP defined Social/Behavioral Sciences package

Humanities/Fine Arts package (6 CH)
Courses in CCP defined Humanities/Fine Arts package. Students must complete a minimum of 3 Credit Hours from courses listed in the Qatar and Gulf History Sub-package which is part of the Humanities/Fine Arts package.

Natural Science/Mathematics package (3 CH)
Satisfying this package requirements depends on the concentration area selected by students.
- Students selecting the Concentration area in International Political Economy must complete the MATH 103 course.
- Students selecting a concentration area other than the International Political Economy Concentration area may complete any of the courses listed in the CCP defined Natural Science/Mathematics package

Supplemental College / Program core requirements package (6 CH)
• ENGL 250 English for Communication I
• ENGL 251 English for Communication II

Major Core Requirements (39 CH)
Students must complete a minimum of 39 credit hours in

Major required courses:
• INTA 100 First Year Seminar
• INTA 101 Polities and Social Thought
• INTA 102 Introduction to Political Science
• INTA 103 Introduction to International Relations
• EDUC 201 Research Methodology
• INTA 296 International Organizations
• INTA 302 Politics of Oil
• INTA 306 Gulf studies
• INTA 308 International Political Economy
• INTA 313 Culture and Politics
• LAWC 339 PubliInternational Law
• INTA 411 Capstone
• INTA 415 History of the Middle East in the 20th Century

Major Electives (18 CH) Students must complete a minimum of 18 credit hours in

Major electives courses:
• INTA 201 Comparative Political Systems
• INTA 203 Women in Islam
• INTA 204 Middle East History I
• INTA 205 Middle East History II
• INTA 206 Globalization
• INTA 209 Islam and the West
• INTA 300 Chinese Society and Politics in the 21st Century
• INTA 301 Islamic Political Thought
• INTA 315 Dialogue Across Societies and Civilizations
• INTA 345 The Arab-Israeli Conflict
• INTA 350 Foreign Policy of the United States
• INTA 401 International Relations Theory
• INTA 402 Security Studies
• INTA 404 Gender and Law
• INTA 405 Gender in International Perspective
• INTA 420 Conflict Resolution and Human Rights
• INTA 440 Politics of Development
• INTA 450 Ethics of International Relations
• INTA 468 Special Topics
• INTA 466 Leadership and Civic Responsibility
• INTA 470 Area Studies

International Security and Diplomacy Concentration (24 CH)

Concentration in International Political Economy (24 CH) Students must complete a minimum of 12 CH in concentration core requirements and a minimum of 12 CH in concentration electives.

International Security and Diplomacy Concentration Core Requirements (12 CH)
• INTA 206 Comparative Political Systems
• INTA 208 Globalization
• INTA 405 Gender in International Perspective
• INTA 470 Area Studies
• INTA 493 Labor and Class in Petroleum Society
• ECON 451 Economic Development

International Security and Diplomacy Concentration Electives (12CH) A minimum of 12 credit hours in Concentration Elective courses:
• INTA 345 The Arab-Israeli Conflict
• INTA 404 Gender and Law
• INTA 450 Ethics of International Relations
• INTA 470 Area Studies
• HIST 323 Gulf-South Asian Relations in the modern and contemporary history
• INTA 433 Europe, the Cold War and the World since 1945
• FREN 301 French Language 3
• LAWC 102 Human Rights and International Humanitarian
• SOCI 368 Law and Society
• SOCI 361 Human Rights
• SOCI 369 Language, Communication and Society

Concentration in International Political Economy (12 CH) Students must complete a minimum of 12 CH in concentration core requirements and a minimum of 12 CH in concentration electives.

International Economic Policy Concentration Core Requirements (12 CH)
• HIST 131 World History
• INTA 201 Comparative Political Systems
• INTA 208 Globalization
• INTA 405 Gender in International Perspective
• INTA 470 Area Studies
• INTA 493 Labor and Class in Petroleum Society
• ECON 451 Economic Development

International Political Economy Concentration Electives (12 CH)

Concentration in International Political Economy (12 CH) Students must complete a minimum of 12 CH in concentration core requirements and a minimum of 12 CH in concentration electives.

International Political Economy Concentration Core Requirements (12 CH)
• HIST 131 World History
• INTA 201 Comparative Political Systems
• INTA 208 Globalization
• INTA 405 Gender in International Perspective
• INTA 470 Area Studies
• INTA 493 Labor and Class in Petroleum Society
• ECON 451 Economic Development

International Political Economy Concentration Electives (12 CH)

Concentration in International Political Economy (12 CH) Students must complete a minimum of 12 CH in concentration core requirements and a minimum of 12 CH in concentration electives.
Study Plan for International Affairs
Bachelor of Arts in International Affairs

**Minor Requirements (18 CH)**
Students must complete a minimum of 18 credit hours in Minor required courses:
- INTA 101 Political and Social Thought
- INTA 102 Introduction to Political Science
- INTA 103 Introduction to International Relations
- LAWC 339 Public International Law
- INTA 415 History of the Middle East in the 20th Century
- INTA 308 International Political Economy

**Minor Electives (6 CH)**
Students must complete a minimum of 6 credit hours in Minor electives courses:
- INTA 203 Women in Islam
- INTA 206 Globalization
- INTA 306 Gulf studies
- INTA 209 Islam and the West
- INTA 461 International Relations Theory
- INTA 403 Security Studies
- INTA 404 Gender and Law
- INTA 405 Gender in International Perspective
- INTA 440 Politics of Development
- INTA 450 Ethics of International Relations
- INTA 470 Area Studies
- SOCI 200 Sustainable Development
- INTA 300 Chinese Society and Politics in the 21st Century

### FIRST YEAR (30 credit hours)

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<th>Term</th>
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### FOURTH YEAR (30 credit hours)

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<td>INTA 499</td>
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<td><strong>Total Credit Hours in Semester</strong></td>
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</table>
POLICY, PLANNING AND DEVELOPMENT PROGRAM

Department of International Affairs
College of Arts and Sciences
CG1-108 women’s building
Phone: (974) 4403-4930
E-mail: dia@qu.edu.qa
Website: http://www.qu.edu.qa/arts/sciences/international_affairs/policydp/index.php

Head
Yousef Bouandel

Assistant Professors: Abdellaziz Elouahan

ABOUT THE PROGRAM

The Policy, Planning and Development program offers an interdisciplinary degree focused on generating knowledge and understanding the public policy, energy, security, urban planning and development, and environment. Through focusing on national, regional, and international issues, the degree seeks to prepare its graduates to thrive in an increasingly interdependent global community by grounding them in independent critical thinking, leadership skills, global awareness, tolerance, and social responsibility. Graduates will be ready for further study and professional careers in both the public and private sectors.

BACHELOR OF ARTS IN POLICY, PLANNING, AND DEVELOPMENT

Objectives

The major in Policy, Planning and Development strives to:
1. Effectively lead and manage public sector institutions and other organizations.
2. Participate in and contribute to the policy process.
3. Articulate and apply dedicated service on behalf of the public good.
4. Analyze, synthesize, think critically, solve problems, and make decisions.
5. Communicate and interact productively with a diverse and changing workforce and citizenship.

Major Declaration

Applicants must satisfy the minimum high school percentage requirement for the major in the semester of admission. In addition, students must have successfully completed a minimum of 12 Credit Hours from the Core Curriculum Program (CCP) of 2.0. Students will also have to pass an interview. Transfer applicants must have earned a minimum cumulative GPA of 2.0.

Additional Requirements

To receive a BA in Policy, Planning and Development, students must complete the 120 credit hour approved study plan of the major. Students must also achieve a minimum cumulative GPA of 2.0. With the help and supervision of an assigned advisor, students under the newly proposed program will have to diversify their coursework by the end of their sophomore year to include departmental concentrations and/or a Minor.

Learning Outcomes

Students completing the Major will acquire competency in the following domains:
1. Students will apply basic research methods in the social and natural sciences.
2. Students will utilize critical and creative thinking, skeptical inquiry and, when possible, a scientific approach to solving problems.
3. Students will be able to communicate effectively in a variety of formats.
4. Students will analyze the complexity of sociocultural and global diversity.
5. Students will apply skills in an occupational setting.

Students completing the Concentration in Urban Planning and Development will acquire the additional competency in the following domain by developing the ability to:
1. Students will interpret the role of oil and gas in the central events in world history.
2. Students will analyze the role of different sources of energy in an international context.

Students completing the Concentration in Energy and Security will acquire the additional competency in the following domain by developing the ability to:
1. Students will interpret the role of oil and gas in the central events in world history.
2. Students will analyze the role of different sources of energy in an international context.

Students completing the Concentration in Environment and Sustainability will acquire the additional competency in the following domain by developing the ability to:
1. Students will be able to explain how sustainability relates to their lives and how their actions impact sustainability.
2. Students will learn how to apply concepts of sustainability locally and globally by engaging in the challenges and solutions of sustainability in a broader context.

Students completing the Concentration in Public Policy will acquire the additional competency in the following domain by developing the ability to:
1. The student demonstrates the ability to identify and analyze a policy issue and present well-informed policy recommendations.
2. Ability to critically evaluate factors shaping the policy-making process.

Students completing the Concentration in Urban Planning and Development will acquire the additional competency in the following domain by developing the ability to:
1. Students are expected to demonstrate knowledge of current principles and practices of urban planning relevant at multiple levels of government from local to global.
2. Demonstrate specialized knowledge on the tools and methods that can be applied to analyze the conditions and prerequisites for urban transition.

Opportunities

Graduates will be ready for further study and professional careers in public and private sectors, including foreign affairs, international organizations, government, media, civil service and journalism.

DEGREE REQUIREMENTS

Major in Policy Planning and Development

A minimum of 120 credit hours are required to complete the major in Policy Planning and Development, including the following:
• A minimum of 33 credit hours in Core Curriculum requirements.
• A minimum of 48 credit hours in Major Core Requirements.
• A minimum of 9 credit hours in Major Electives.
• A minimum of 24 credit hours in Concentration Requirements.
• A minimum of 6 credit hours in Capstone and Internship Requirements.

Core Curriculum Program (33 CH)

Common package (15 CH)
• ARAB 100 Arabic Language I
• ENGL 110 English I
• ENGL 111 English II
• DAWA 111 Islamic Culture
• MATH 103 Intermediate Algebra
• MATH 104 Calculus I
• MATH 105 Calculus II

Social/Behavioral Sciences package (3 CH)
• Any Course in CCP defined Social/Behavioral Sciences package

Humanities/Fine Arts package (6 CH)
Students must complete 6 CH from courses in the CCP defined Humanities/Fine Arts package including a minimum of 3 Credit Hours from courses listed in the Qatar and Gulf History Sub-package part of the Humanities/Fine Arts package.

Natural Science/Mathematics package (3 CH)
Students must complete the following course from the CCP defined Natural Science / Mathematics package:
• MATH 103 Intermediate Algebra

Supplemental College/Program Core Requirements package (6 CH)
• ENGL 250 English for Communication I
• ENGL 251 English for Communication II

Major Requirements (48 CH)

Students must complete the following courses:
• POPL 100 Introduction to Public Policy and Analysis
• POPL 101 Principles of Management
• INTA 102 Introduction to Political Science
• INTA 103 Introduction to International Relations
• MATH 119 Business Mathematics I
• ECON 112 Microeconomics
• SOCI 120 Introduction to Sociology
• STAT 203 Business Statistics
• EDUC 201 Research Methodology
• POPL 200 International Development of Public Policy
• POPL 210 Disaster Planning and Crisis Management Fundamentals
• POPL 229 Public Finance
• POPL 300 Principles and Tools for Evidence-Based Policy Decision Making
• POPL 400 Public Leadership and Policy Development
• INTA 440 Politics of Development
• INTA 465 Leadership and Civic Responsibility

Major Electives (9 CH)

Students must complete a minimum of 9 credit hours in courses selected from the following:
• POPL 221 International Energy Issues
• POPL 228 Introduction to Energy Law and Policy
• POPL 230 Climate Change Policy Analysis
• POPL 232 Energy and Environmental Economics
• POPL 241 Community-Based Policy Development and Analysis
• POPL 242 Law and Public Policy
• POPL 245 Introduction to the Theory and Practice of Urban Planning
• POPL 285 Impact Assessment Studies
• POPL 320 Energy Risk Management
• POPL 321 Energy, Science, Technology, and Human Usage
• POPL 325 International Law and Security
• POPL 330 International Environmental Climate Change Politics and Policy
• POPL 335 Science, Technology and Policy
• POPL 340 Organizational Behavior and Management in Public Service Agencies
• POPL 345 Diversity and Community Development
• POPL 349 Housing and Community Development
• POPL 353 Transportation and Transit-Oriented Development

Assistant Professors:
Youcef Bouandel
Concentration in Public Policy (24 CH)
Students must complete a minimum of 15 credit hours in the Public Policy concentration core requirements package and 9 credit hours in the Public Policy concentration electives.

Public Policy Concentration Core Requirements package (15 CH)
Students must complete the following courses:
- POPL 242 Law and Public Policy
- POPL 340 Organizational Behavior and Management in Public Service Agencies
- POPL 345 Diversity and Community Development
- POPL 470 Communication Fundamentals for Leaders in Public Policy
- POPL 488 Public Policy Planning and Analysis

Public Policy Concentration Electives package (9 CH)
Students must complete 9 credit hours from the following courses:
- POPL 241 Community-Based Policy Development and Analysis
- POPL 335 Science, Technology and Human Resource Management
- HIST 324 Economic History of the Gulf
- LAWC 339 Public International Law

Concentration in Environment and Sustainability (24 CH)
Students must complete a minimum of 15 credit hours in the Environment and Sustainability concentration core requirements package and 9 credit hours in the Environment and Sustainability concentration electives.

Concentration in Environment and Sustainability Concentration Core Requirements package (15 CH)
Students must complete the following courses:
- POPL 431 Economic Policy Approaches to Sustainability
- POPL 432 Sustainability Planning and Protection of Cultural Resources
- POPL 439 Environmental Impact Assessment
- SOCI 200 Sustainable Development
- GEOG 442 Environment and Pollution

Environment and Sustainability Concentration Electives package (9 CH)
Students must complete 9 credit hours from the following courses:
- POPL 430 Climate Change Policy Analysis
- BIOL 345 Health Safety and Environment
- GEOL 411 Geology of Qatar and Arabian Peninsula
- LAWC 449 Environmental Law and Regulations

Concentration in Energy and Security (24 CH)
Students must complete a minimum of 15 credit hours in the Energy and Security concentration core requirements package and 9 credit hours in the Energy and Security concentration electives.

Energy and Security Concentration Core Requirements package (15 CH)
Students must complete the following courses:
- POPL 229 International Energy Issues
- POPL 228 Introduction to Energy Law and Policy
- POPL 420 Energy and Global Security
- INTA 403 Security Studies

Energy and Security Concentration Electives package (9 CH)
Students must complete 9 credit hours from the following courses:
- POPL 321 Energy: Science, Technology, and Human Usage
- POPL 325 International Law and Security
- POPL 387 Energy Conservation
- POPL 486 Alternative Energy
- INTA 302 Politics of Oil

Concentration in Urban Planning and Development (24 CH)
Students must complete a minimum of 15 credit hours in the Urban Planning and Development concentration core requirements package and 9 credit hours in the Urban Planning and Development concentration electives.

Urban Planning and Development Concentration Core Requirements package (15 CH)
Students must complete the following courses:
- POPL 245 Introduction to the Theory and Practice of Urban Planning
- POPL 353 Transportation and Transit-Oriented Development
- POPL 450 Urban and Regional Economics
- POPL 452 Urban Planning and Development
- GEOG 346 Introduction to GIS

Urban Planning and Development Concentration Electives package (9 CH)
Students must complete 9 credit hours from the following courses:
- POPL 285 Impact Assessment Studies
- POPL 380 Housing and Community Development
- POPL 375 Urban Sustainability
- SOCI 265 Population and Migration
- SOCI 267 Urban Studies

Capstone and Internship Requirements (6 CH)
Students must complete the following courses:
- POPL 490 Internship
- POPL 499 Capstone

MINOR IN POLICY PLANNING AND DEVELOPMENT
This minor program offers students enrolled in other majors a comprehensive knowledge and expertise in Policy Planning and Development to complement their major. This minor will contribute in equipping students with leadership skills and in enhancing their ability to analyze, define, and develop planning and development strategies for the common good of the country, region, communities, and global society. The program addresses several sub-specialties, including sustainability, energy security, public policy and planning.

Minor in Policy Planning and Development (24 CH)
A minimum of 24 credit hours are required to complete the minor in Philosophy, including the following:
- A minimum of 15 credit hours in the Minor Requirements
- A minimum of 9 credit hours in the Minor Electives

Minor Requirements (15 CH)
Students must complete the following courses:
- POPL 100 Introduction to Public Policy and Analysis
- POPL 200 Ethical Development of Public Policy
- POPL 300 Principles and Tools for Evidence-Based Policy Decision Making

Minor Electives (9 CH)
Students must complete a minimum of 9 credit hours in courses selected from the following:
- POPL 232 Energy and Environmental Economics
- POPL 241 Community-Based Policy Development and Analysis
- POPL 245 Introduction to the Theory and Practice of Urban Planning
- POPL 321 Energy: Science, Technology, and Human Usage
- POPL 335 Science, Technology and Policy
- POPL 450 Urban and Regional Economics
- POPL 221 International Energy Issues
- POPL 230 Climate Change Policy Analysis
- POPL 340 Organizational Behavior and Management in Public Service Agencies
### Study Plan for Policy, Planning and Development

**Bachelor of Arts in Policy, Planning and Development**

#### FIRST YEAR (30 credit hours)

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#### SECOND YEAR (30 credit hours)

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<td>INTA 102</td>
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<td>POPL 200</td>
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<td>INTA 103</td>
<td>Introduction to International Relations</td>
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<td>EDUC 201</td>
<td>Research Methodology</td>
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<td>POPL 210</td>
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<td>MAGT 101</td>
<td>Principles of Management</td>
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<td>STAT 220</td>
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#### THIRD YEAR (30 credit hours)

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<th>Term</th>
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<td>INTA 465</td>
<td>Leadership and Civic Responsibility</td>
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</table>

#### DEPARTMENT OF MASS COMMUNICATION

**Women’s Main Building, Room 225 (Women’s Section) Men’s Main Building, Room 223 (Men’s Section) Phone: (974) 4403-4860/4866 / 4866**

E-mail: headdgpmasscommunication@qu.edu.qa


**Acting Head**

Robert Meeds

**Faculty Professor: **

Mohamed Kirat

**Associate Professors:**

Mahrnoud Galander, Robert W. Meeds, Nishan Rali, Noureddine Mladi, Haydar Badawi Sadig, Adel Jedidi

**Assistant Professors:**

Saadia Malik, Kamal Hamidou, Abdullah Zain Hidri

**Lecturers:**

Chaker Ayyadi, Rana Hassan, Hind Al-Ibrahim, Nejed Al-Ibrahim, Al-Sayed Alkilani

**ABOUT THE DEPARTMENT**

The Mass Communication Department strives to respond to the aspirations of the state of Qatar as a vibrant global media hub by providing up to-date curriculum which reflects the pace of advances in the field of mass media. The program creates a student-centered learning environment that merges the practical with the theoretical. Students develop their critical thinking abilities and acquire professional competencies by engaging in a hands-on, technologically attuned learning environment which addresses the needs of the mass media industries in the region. The department educates and trains students from the Middle East and beyond in the areas of print and online journalism, broadcast and online journalism, and strategic communication. The faculty and students engage in research, professional development, creative and service activities for the benefit of the multicultural societies in the region.

The Mass Communication Department has earned the region.

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The Learning objectives of the Department of Mass Communication are to educate graduates who will:

- Understand and apply media law and principles of freedom of speech and of the press appropriate to professional practice.
- Demonstrate an understanding of the history and role of professionals and institutions in shaping communications.
- Critically evaluate their work and that of others for accuracy and fairness, clarity, appropriate style and professional competencies by engaging in a hands-on, technologically attuned learning environment which addresses the needs of the mass media industries in the region. The department educates and trains students from the Middle East and beyond in the areas of print and online journalism, broadcast and online journalism, and strategic communication. The faculty and students engage in research, professional development, creative and service activities for the benefit of the multicultural societies in the region.

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- Understand and apply media law and principles of freedom of speech and of the press appropriate to professional practice.
- Demonstrate an understanding of the history and role of professionals and institutions in shaping communications.
- Critically evaluate their work and that of others for accuracy and fairness, clarity, appropriate style and
grammatical correctness. • Comprehend concepts and apply theories in the use and presentation of languages and information. • Demonstrate technical skills in writing and reporting correctly and clearly for different audiences. • Conduct research and evaluate information by methods appropriate to the communications professions in which they work, including the application of basic numerical and statistical concepts. • Think critically, creatively and independently. • Acquire and apply an ethical framework for the practices of mass communication and journalism. • Demonstrate an understanding of the diversity of groups in the global society in relationship to communication. • Analyze A interpret media messages. • Apply tools and technologies appropriate for the communications professions in which they work. • Demonstrate an understanding of gender, race, ethnicity, sexual orientation and, as appropriate, other forms of diversity in domestic society in relation to mass communications.

Opportunities
Mass Communication graduates take many career paths. Besides working as reporters, editors, writers in print and online newspapers, our graduates may land their first jobs with national, regional and local magazines, radio stations, television channels, advertising agencies, and/or public relations firms. Besides television and radio careers, graduates of the department may work for advertising agencies or marketing departments of major corporations in the fast-growing Gulf region; our graduates are trained to write and produce video documentaries for public relations and corporate communications clients. Integrated into all these professional options is the study and practice of communication-based skills, techniques, theories and aesthetics, which our graduates will need to succeed in an ever-changing field of Mass Communication. Students will learn the tried-and-true mass communication basics as well as media techniques needed to excel in this globally interconnected world.

DEGREE REQUIREMENTS
Major in Mass Communication
A minimum of 126 credit hours are required to complete the major in Mass Communication, including the following:
• A minimum of 33 credit hours in Core Curriculum requirements
• A minimum of 6 credit hours in Major Supporting Core Requirements
• A minimum of 6 credit hours in Major Supporting Electives
• A minimum of 15 credit hours in Major Requirements

Major Electives
• A minimum of 6 credit hours in Major Electives
• A minimum of 18 credit hours in Concentration Requirements
• A minimum of 6 credit hours in Concentration Electives
• A minimum of 24 credit hours in Minor Requirements or Concentration Supporting requirements
• A minimum of 12 credit hours in Free Electives

Core Curriculum Program (33 credit hours)
Common package (15 CH)
• ARAB 100 Arabic Language I
• ARAB 200 Arabic Language II
• ENGL 110 English I
• ENGL 111 English II
• DAWA 111 Islamic Culture

Social/Behavioral Sciences package (3CH)
Courses in CCP defined Social/Behavioral Sciences package

Humanities / Fine Arts package (6 CH)
Courses in defined Humanities/Fine Arts package. Students must complete a minimum of 3 Credit Hours from courses listed in the Qatar and Gulf History Sub-package which is part of the Humanities/Fine Arts package.

Natural Science/Mathematics package (3 CH)
Courses in CCP defined Natural Science/Mathematics package

Supplemental College / Program core requirements
Package (6 CH)
• ENGL 250 English for Communication I
• ENGL 251 English for Communication II

Major Supporting Core Requirements (6 CH)
Students must complete a minimum of 6 credit hours of major supporting core requirements including:
• STAT 101 Statistics I
• SOCI 120 Introduction to Sociology

Major Supporting Electives (6 CH)
Students must complete a minimum of 6 credit hours in major supporting electives:
• SOCI 368 Law & Society
• SOCI 465 Industrial Organization and Work
• PSYC 300 Psychology of Personality
• GEOG 344 Political Geography
• INTA 205 Middle East History II

Major Core Requirements (15 CH)
Students must complete a minimum of 15 credit hours in Major required courses:
• MCOM 103 Media and Society

• MCOM 212 Visual Communication
• MCOM 215 Multimedia Reporting and Writing I
• MCOM 222 Communication Theories
• MCOM 317 Media Law and Ethics

Major Electives (6 CH)
Students must complete a minimum of 3 credit hours in each of the Major Theoretical Electives and the Major Practical Electives packages.

Major Theoretical Electives Package
Students must complete a minimum of 3 credit hours in Major Theoretical Elective courses:
• MCOM 223 Media Writing
• MCOM 318 Global Communication
• MCOM 303 Women and Media
• MCOM 349 Photo Journalism

Major Practical Electives Package
Students must complete a minimum of 3 credit hours in Major Practical Elective courses:
• MCOM 226 Special Topics in Mass Communication
• MCOM 315 Communication Research Methods
• MCOM 348 Investigative Journalism
• MCOM 465 Web-Content for Radio
• MCOM 382 Organizational Communication
• MCOM 360 Sports Journalism

Concentration in Print/Online Journalism (24 CH)
Students must complete a minimum of 18 CH in concentration core requirements and a minimum of 6 CH in concentration electives.

Print/Online Journalism Concentration Core Requirements (18 CH)
• MCOM 341 News Reporting, Writing and Editing Arabic
• MCOM 342 News Reporting, Writing and Editing English
• MCOM 343 Online Journalism
• MCOM 350 Multimedia Reporting and Writing II
• MCOM 447 Journalism Internship
• MCOM 450 Multimedia Journalism "Capstone"

Print/Online Journalism Concentration Electives (6 CH)
A minimum of 3 credit hours in Concentration Elective courses:
• MCOM 345 Newspaper Design and Production
• MCOM 346 Internet-Assisted Reporting
• MCOM 348 Investigative Journalism
• MCOM 452 Magazine Writing
• MCOM 384 Broadcast Production

Concentration in Broadcast/Online Journalism (24 CH)
Students must complete a minimum of 18 CH in concentration core requirements and a minimum of 6 CH in concentration electives.

Broadcast /Online Journalism Concentration Core Requirements (18 CH)
• MCOM 350 Multimedia Reporting and Writing II
• MCOM 361 Broadcast News Reporting and Writing I
• MCOM 364 Broadcast Production
• MCOM 467 Broadcast Internship
• MCOM 469 Television Documentary Production
• MCOM 470 Broadcast Capstone

Broadcast /Online Journalism Concentration Electives (6 CH)
A minimum of 6 credit hours in Concentration Elective courses:
• MCOM 365 Announcing
• MCOM 365 Script Writing
• MCOM 366 Broadcast Directing
• MCOM 367 Broadcast News Reporting and Writing II
• MCOM 465 Web-Content for Radio

Concentration in Strategic Communication (24 CH)
Students must complete a minimum of 18 CH in concentration core requirements and a minimum of 6 CH in concentration electives.

Strategic Communication Concentration Core Requirements (18 CH)
• MCOM 381 Principles of Public Relations
• MCOM 383 Principles of Advertising
• MCOM 384 Advertising Concept Design
• MCOM 388 Public Relations Writing and Presentations
• MCOM 487 PR/AD Internship
• MCOM 490 Strategic Communication "Capstone"

Strategic Communication Concentration Electives (6 CH)
A minimum of 6 credit hours in Concentration Elective courses:
• MCOM 382 Organizational Communication
• MCOM 386 Public Relations and New Media
• MCOM 491 Strategic Communication
• MCOM 492 Social Marketing
• MCOM 493 Public Opinion Research
• MCOM 364 Broadcast Production

Minor or Concentration Supporting Requirements (24 CH)
Students can choose to either enroll in a minor or to complete concentration supporting requirements. If the minor, the student enrolled in is less than 24 CH, students must take additional courses as free electives to complete the 24 CH requirements. If students choose to complete...
Students seeking a minor in Mass Communication must complete a minimum of 15 credit hours in Minor electives courses:

- MCOM 350 1 Multimedia Reporting and Writing 1 (E)
- MCOM 364 Broadcast Production
- Concentration Electives Basket
- University Free Elective 2

Total Credit Hours in Semester 15

### Third Year (36 credit hours)

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### Fourth Year (30 credit hours)

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### Bachelor of Arts in Mass Communication

#### Study Plan for Print/Online Journalism

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<td>MCOM 222</td>
<td>Communication Theories</td>
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### Bachelor of Arts in Mass Communication

#### Study Plan for Strategic Communication

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<td>Introduction to Statistics</td>
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<td>MCOM 348</td>
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<tr>
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<td>Spring</td>
<td>MCOM 350</td>
<td>Journalism Internship</td>
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</table>
DEPARTMENT OF SOCIAL SCIENCES

Main Women’s Building, Room 231m
Stairs No. 1 (Women’s Section)
Phone: (974) 4403-4750
Fax: (974)4403-4751
E-mail: sociosciences@qu.edu.qa
Website: http://www.qu.edu.qa/artssciences/
sociosciences

Acting Head
Maheer Khelifa

Faculty
Associate Professors: Kaltham Al-Ghanim, Waseem Al-Ohman, Abdullah Saleh, Imran Al-Waiz, Ahmed Al-Fahad
Assistant Professors: Kaltham Al-Kuwari, Fatima Al-Kubaisi, Ali Al-Shawi, Nada Adeb Al-Otaiba, Munira Al-Rumaihi, Yousef Hasan Saleh, Ibrahim Al-Kaabi

Teaching assistant: Shaikha Al-Kuwari, Sadique Pathan

ABOUT THE DEPARTMENT

The Department of Social Sciences offers courses that address both classic and contemporary perspectives on the social worlds in which humans live. Through broad training and practical experience in a research-oriented environment, students in the department will gain the skills and knowledge necessary to meaningfully contribute to society, to pursue graduate study in the social sciences, and to grapple with the social and cultural aspects of our collective existence. This mission is shared by the departments three programs: Sociology, Social Work and Psychology.

BACHELOR OF ARTS IN SOCIOLOGY

About the Sociology Program

The mission of the program is to train students in the foundational methods and theories integral to sociology and closely related social sciences, and to combine training with practical experience and research skills to produce graduates capable of significant contributions in a wide variety of practical and research-oriented pursuits. Coursework in the sociology program is configured to simultaneously build a strong social and cultural understanding of the local region, while also producing graduates capable of significant contributions in the social and cultural issues to explain societal patterns or problems.

• Furnish students with an understanding of both the uniformity and diversity observable in socio-cultural orders.

Objectives

The major in Sociology strives to:
• Equip students with methods for gathering and analyzing systematically derived field-based data.
• Develop students’ understanding of basic social science concepts.
• Provide students with the ethical foundation for conducting research on social and cultural issues to explain societal patterns or problems.

Major Declaration

In order to declare a major in Sociology, applicants must satisfy the minimum high school percentage requirement 75% for the major in the semester of admission. In addition, students must have successfully completed a minimum of 12 College Hours from the Core Curriculum, achieved a GPA of 2.00 and passed the program admission test and interview.

Learning Outcomes

Upon completion of the major, students will be able to:
• Define Social and Cultural Concepts
• Explain and Give example of social and cultural issues
• Apply Quantitative and qualitative data related to social issues.
• Design appropriate data Collection strategies to conduct sociological research.
• Apply international sociological code of ethics
• Support social and culture diversity.

Opportunities

Graduates in Sociology find employment in government agencies, non-governmental organizations, international aid and development agencies, and in the private sector in management positions, community service, social service, and research organizations. Quantitative and qualitative research skills allows graduates to be employed by marketing, research and consulting agencies.

DEGREE REQUIREMENTS

Major in Sociology

A minimum of 120 credit hours are required to complete the major in Sociology, including the following:
• A minimum of 33 credit hours in Core Curriculum requirements.
• A minimum of 24 credit hours in Major Requirements
• A minimum of 24 credit hours in Minor Requirements
• A minimum of 12 credit hours in Free Electives

Core Curriculum Program (33 CH)

Common package (15 CH)
• ARAB 101 100 Arabic Language I
• ARAB 200 Arabic Language II
• ENGL 110 English I
• ENGL 111 English II
• DAWA 111 Islamic Culture

Sociology/Behavioral Sciences program (3 CH)
Courses in CCP defined Social/Behavioral Sciences package

Humanities /Fine Arts package (6 CH)
Courses in CCP defined Humanities/Fine Arts package.

Natural Science/Mathematics package (3 CH)
Courses in CCP defined Natural Science/Mathematics package

Supplemental College / Program core requirements package (6 CH)
• ENGL 250 English for Communication I
• ENGL 251 English for Communication II

Major Requirements (24 CH)

Students must complete a minimum of 24 CH in major requirements including a minimum of 3 credit hours in Major Requirements I package and 21 credit hours in Major Requirements II package.

Major Requirements I package (3 CH)
Students must complete a minimum of 3 CH taken from the following courses:
• SOCI 120 Introduction to Sociology
• SOCI 121 Introduction to Anthropology

Major Requirements II package (21 CH)
Students must complete a minimum of 21 credit hours in the major requirements II package courses:
• SOCI 261 Quantitative Methods
• SOCI 262 Qualitative Methods
• SOCI 360 Sociological Theory
• SOCI 351 Human Rights
• SOCI 460 Statistics in the Social Sciences
• SOCI 462 Change in Contemporary Arab Society
• SOCI 469 Research Project

Major Electives (27 CH)

Students must complete a minimum of 27 credit hours in Major electives courses, including a minimum of 3 credit hours and maximum of 6 credit hours in Regional Electives

Topical Electives package (21 - 24 CH)

Students must complete between 21 to 24 credit hours in Topical Electives package courses.

Free Electives (12 CH)

Students must complete a minimum of 12 credit hours in University Free Electives from courses outside the Sociology major.

MINOR IN SOCIOLGY

Students pursuing a minor in Sociology will have an opportunity to learn about social phenomena which influence human action within society. The minor will also offer a body of knowledge to enable students to understand core concepts of societal issues and critically think about them.

Regional Electives package (3 - 6 CH)

Students must complete between 3 to 6 credit hours in Regional electives package courses:
• SOCI 263 Badawi Society
• SOCI 362 Comparative Ethnography
• SOCI 363 Ethnicity
• SOCI 463 Labor and Class in Petrol Societies
• SOCI 464 Social Policy and Planning

Regional Electives package (3 - 6 CH)

Students must complete between 3 to 6 credit hours in Regional electives package courses:
• SOCI 263 Badawi Society
• SOCI 362 Comparative Ethnography
• SOCI 363 Ethnicity
• SOCI 463 Labor and Class in Petrol Societies
• SOCI 464 Social Policy and Planning

Topical Electives package (21 - 24 CH)

Students must complete between 21 to 24 credit hours in Topical Electives package courses.
• SOCI 200 Sustainable Development
• SOCI 264 Family and Kinship
• SOCI 265 Population and Migration
• SOCI 267 Urban Studies
• SOCI 268 Culture, Health and Disease
• SOCI 364 Violence
• SOCI 365 Study of Gender
• SOCI 366 Language, Communication and Society
• SOCI 367 Comparative Religion
• SOCI 368 Law and Society
• SOCI 465 Industrial Organization and Work
• SOCI 466 Social, Religious, and Political Movements
• SOCI 467 Globalization
• SOCI 470 Independent Study
• SOCI 471 Special Topics

Minor Requirements (24 CH)

Students enrolled in the Sociology program may take any of the Minors offered within the university. If the minor the students enrolled in is less than 24 CH, students must take additional courses as free electives to complete the 24 CH requirements.

Free Electives (12 CH)

Students must complete a minimum of 12 credit hours in University Free Electives from courses outside the Sociology major.

MINOR IN SOCIOLGY

Students pursuing a minor in Sociology will have an opportunity to learn about social phenomena which influence human action within society. The minor will also offer a body of knowledge to enable students to understand core concepts of societal issues and critically think about them.

Regional Electives package (3 - 6 CH)

Students must complete between 3 to 6 credit hours in Regional electives package courses:
• SOCI 263 Badawi Society
• SOCI 362 Comparative Ethnography
• SOCI 363 Ethnicity
• SOCI 463 Labor and Class in Petrol Societies
• SOCI 464 Social Policy and Planning

Topical Electives package (21 - 24 CH)

Students must complete between 21 to 24 credit hours in Topical Electives package courses.
• SOCI 200 Sustainable Development
• SOCI 264 Family and Kinship
• SOCI 265 Population and Migration
• SOCI 267 Urban Studies
• SOCI 268 Culture, Health and Disease
• SOCI 364 Violence
• SOCI 365 Study of Gender
• SOCI 366 Language, Communication and Society
• SOCI 367 Comparative Religion
• SOCI 368 Law and Society
• SOCI 465 Industrial Organization and Work
• SOCI 466 Social, Religious, and Political Movements
• SOCI 467 Globalization
• SOCI 470 Independent Study
• SOCI 471 Special Topics

Minor Requirements (24 CH)

Students enrolled in the Sociology program may take any of the Minors offered within the university. If the minor the students enrolled in is less than 24 CH, students must take additional courses as free electives to complete the 24 CH requirements.

Free Electives (12 CH)

Students must complete a minimum of 12 credit hours in University Free Electives from courses outside the Sociology major.

MINOR IN SOCIOLGY

Students pursuing a minor in Sociology will have an opportunity to learn about social phenomena which influence human action within society. The minor will also offer a body of knowledge to enable students to understand core concepts of societal issues and critically think about them.

Regional Electives package (3 - 6 CH)

Students must complete between 3 to 6 credit hours in Regional electives package courses:
• SOCI 263 Badawi Society
• SOCI 362 Comparative Ethnography
• SOCI 363 Ethnicity
• SOCI 463 Labor and Class in Petrol Societies
• SOCI 464 Social Policy and Planning

Topical Electives package (21 - 24 CH)

Students must complete between 21 to 24 credit hours in Topical Electives package courses.
• SOCI 200 Sustainable Development
• SOCI 264 Family and Kinship
• SOCI 265 Population and Migration
• SOCI 267 Urban Studies
• SOCI 268 Culture, Health and Disease
• SOCI 364 Violence
• SOCI 365 Study of Gender
• SOCI 366 Language, Communication and Society
• SOCI 367 Comparative Religion
• SOCI 368 Law and Society
• SOCI 465 Industrial Organization and Work
• SOCI 466 Social, Religious, and Political Movements
• SOCI 467 Globalization
• SOCI 470 Independent Study
• SOCI 471 Special Topics

Minor Requirements (24 CH)

Students enrolled in the Sociology program may take any of the Minors offered within the university. If the minor the students enrolled in is less than 24 CH, students must take additional courses as free electives to complete the 24 CH requirements.

Free Electives (12 CH)

Students must complete a minimum of 12 credit hours in University Free Electives from courses outside the Sociology major.

MINOR IN SOCIOLGY

Students pursuing a minor in Sociology will have an opportunity to learn about social phenomena which influence human action within society. The minor will also offer a body of knowledge to enable students to understand core concepts of societal issues and critically think about them.
Minor in Sociology (24 CH)

Students seeking a minor in Sociology must complete a minimum of 24 credit hours, including the following:
- A minimum of 12 credit hours in Minor requirements
- A minimum of 12 credit hours in Minor electives

Minor Requirements (12 CH)

Students must complete a minimum of 12 credit hours in Minor required courses:
- SOCI 120 Introduction to Sociology
- SOCI 261 Quantitative Methods
- SOCI 262 Qualitative Methods
- SOCI 360 Sociological Theory

Minor Electives (12 CH)

Students must complete a minimum of 12 credit hours in Minor electives courses:
- SOCI 121 Introduction to Anthropology
- SOCI 200 Sustainable Development
- SOCI 263 Badawi Society
- SOCI 264 Family and Kinship
- SOCI 265 Population and Migration
- SOCI 267 Urban Studies
- SOCI 268 Culture, Health and Disease
- SOCI 361 Human Rights
- SOCI 362 Comparative Ethnography
- SOCI 363 Ethnicity
- SOCI 364 Violence
- SOCI 365 Study of Gender
- SOCI 366 Language, Communication and Society
- SOCI 367 Comparative Religion
- SOCI 368 Law and Society
- SOCI 460 Statistics in the Social Sciences
- SOCI 462 Change in Contemporary Arab Society
- SOCI 463 Labor and Class in Petrol Society
- SOCI 464 Social Policy and Planning
- SOCI 465 Industrial Organization and Work
- SOCI 466 Social, Religious, and Political Movements

Study Plan for Sociology
Bachelor of Arts in Sociology

FIRST YEAR (30 credit hours)

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SECOND YEAR (30 credit hours)

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THIRD YEAR (30 credit hours)

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FOURTH YEAR (30 credit hours)

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<td>Change in Arab Society</td>
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BACHELOR OF ARTS IN SOCIAL WORK

About the Social Work Program
The Program’s mission is to develop generalist social workers who will be strategic thinkers, life-long learners and opinion shapers. The knowledge-base, skills, and values necessary for entry-level generalist social work practice will be taught in an environment that fosters sensitivity and integration of Qatari culture, professional development, critical thinking, and leadership and will prepare students to take appropriate action guided by the best available scientific evidence.

Objectives
The objectives of the Social Work Program are driven by its mission of preparing students for entry-level generalist practice. These goals portray the meaning and purpose of professional generalist social workers, who must be able to practice effectively within any given person-in-the environment context. The Social Work Program will prepare students to:
• Develop an overview of social work as a profession historically, globally, and culturally
• Introduce a perspective on social work theoretical frameworks
• Provide perspective in social work theoretical frameworks
• Provide perspective in basic professional skills in social work

Major Declaration
In order to declare a major in Social Work, applicants must satisfy the minimum high school percentage requirement 75% for the major in the semester of admission. In addition, students must have successfully completed a minimum of 12 Credit Hours from the Core Curriculum and achieved a GPA of 2.30 for Social Work and passed the program admission interview.

Transfer Students Requirements
• Non-CAS students can transfer to the Social Work major; applicants must achieve a 75% (arts stream) or 70% (science stream) on their high school certificate. Completed a minimum of 12 credit hours from the Core Curriculum with a minimum cumulative GPA of 2.30.
• Pass the admission interview.

Learning Outcomes
Upon completion of the major, students will be able to:
• Recognize the role of culture in the context of social work
• Recognize the roles of Ethics in social work practice
• Apply basic social work skills in practice.
• Apply strategies to respond to local and global community socio economic needs
• Apply basic research skills to social work issues
• Develop effective communication skills important for social work practice

Opportunities
Job opportunities abound in Qatar for social work majors. Social Work graduates might work with children, families, adults, elders, couples, groups, organizations and communities. Opportunities also exist for social workers in other fields including child welfare, school social work, mental health social work, addictions, gerontology, community organizing, and policy.

DEGREE REQUIREMENTS

Major in Social Work
A minimum of 120 credit hours are required to complete the major in Social Work, including the following:
• A minimum of 33 credit hours in Core Curriculum requirements
• A minimum of 54 credit hours in Major Requirements
• A minimum of 18 credit hours in Major Supporting Requirements
• A minimum of 9 credit hours in Major Electives
• A minimum of 6 credit hours in Free Electives

Core Curriculum Program (33 CH)
Common package (15 CH)
• ARAB 100 Arabic Language I
• ARAB 200 Arabic Language II
• ENGL 110 English I
• ENGL 111 English II
• DAWA 111 Islamic Culture

Social/Behavioral Sciences package (3 CH)
Courses in CCP defined Social/Behavioral Sciences package

Humanities/Fine Arts package (6 CH)
Courses in CCP defined Humanities/Fine Arts package. Students must complete a minimum of 3 Credit Hours from courses listed in the Qatar and Gulf History Sub-package which is part of the Humanities/Fine Arts package.

Natural Science/Mathematics package (3 CH)
Courses in CCP defined Natural Science/Mathematics package

Supplemental College / Program core requirements package (6 CH)
• ENGL 250 English for Communication I
• ENGL 251 English for Communication II

Major Requirements (54 CH)
Students must complete a minimum of 54 credit hours in Major required courses:
• SOWO 101 Introduction to Social Work and Welfare
• SOWO 200 Social Work and Law
• SOWO 311 Social and Cultural Diversity
• SOWO 320 Human Behavior and Social Environment I
• SOWO 321 Human Behavior and Social Environment II
• SOWO 330 Social Welfare Policy and Services I
• SOWO 350 Social Work Generalist Practice I
• SOWO 360 Social Work Research Methods I
• SOWO 370 Children and Family Practice & Services
• SOWO 400 Social Welfare Policy & Services II
• SOWO 410 Social Work Research Methods II
• SOWO 420 Social Work Generalist Practice II
• SOWO 430 Social Work Generalist Practice III
• SOWO 440 Integrative Seminar
• SOWO 441 Social Work Practicum

Major Electives (9 CH)
Students must complete a minimum of 9 credit hours in Major electives courses:
• SOWO 301 Medical Social Work
• SOWO 302 Mental Health Social Work
• SOWO 303 School Social Work
• SOWO 361 Society and Human Rights

Major Supporting Requirements (18 CH)
Students must complete a minimum of 18 credit hours in Major supporting required courses:
• BIOL 110 Human Biology
• STAT 101 Statistics I
• PSYC 201 Introduction to Psychology
• PSYC 205 Social Psychology
• SOCI 120 Introduction to Sociology
• SOCI 200 Sustainable Development

Free Electives (6 CH)
Students must complete a minimum of 6 credit hours in University Free Electives from courses outside the Social Work major.

DEGREE REQUIREMENTS

Major in Social Work
A minimum of 120 credit hours are required to complete the major in Social Work, including the following:
• A minimum of 33 credit hours in Core Curriculum requirements
• A minimum of 54 credit hours in Major Requirements
• A minimum of 18 credit hours in Major Supporting Requirements
• A minimum of 9 credit hours in Major Electives
• A minimum of 6 credit hours in Free Electives

Core Curriculum Program (33 CH)
Common package (15 CH)
• ARAB 100 Arabic Language I
• ARAB 200 Arabic Language II
• ENGL 110 English I
• ENGL 111 English II
• DAWA 111 Islamic Culture

Social/Behavioral Sciences package (3 CH)
Courses in CCP defined Social/Behavioral Sciences package

Humanities/Fine Arts package (6 CH)
Courses in CCP defined Humanities/Fine Arts package. Students must complete a minimum of 3 Credit Hours from courses listed in the Qatar and Gulf History Sub-package which is part of the Humanities/Fine Arts package.

Natural Science/Mathematics package (3 CH)
Courses in CCP defined Natural Science/Mathematics package

Supplemental College / Program core requirements package (6 CH)
• ENGL 250 English for Communication I
• ENGL 251 English for Communication II

Major Requirements (54 CH)
Students must complete a minimum of 54 credit hours in Major required courses:
• SOWO 101 Introduction to Social Work and Welfare
• SOWO 200 Social Work and Law
• SOWO 311 Social and Cultural Diversity
• SOWO 320 Human Behavior and Social Environment I
• SOWO 321 Human Behavior and Social Environment II
• SOWO 330 Social Welfare Policy and Services I
• SOWO 350 Social Work Generalist Practice I
• SOWO 360 Social Work Research Methods I
• SOWO 370 Children and Family Practice & Services
• SOWO 400 Social Welfare Policy & Services II
• SOWO 410 Social Work Research Methods II
• SOWO 420 Social Work Generalist Practice II
• SOWO 430 Social Work Generalist Practice III
• SOWO 440 Integrative Seminar
• SOWO 441 Social Work Practicum

Major Electives (9 CH)
Students must complete a minimum of 9 credit hours in Major electives courses:
• SOWO 301 Medical Social Work
• SOWO 302 Mental Health Social Work
• SOWO 303 School Social Work
• SOWO 361 Society and Human Rights

Major Supporting Requirements (18 CH)
Students must complete a minimum of 18 credit hours in Major supporting required courses:
• BIOL 110 Human Biology
• STAT 101 Statistics I
• PSYC 201 Introduction to Psychology
• PSYC 205 Social Psychology
• SOCI 120 Introduction to Sociology
• SOCI 200 Sustainable Development

Free Electives (6 CH)
Students must complete a minimum of 6 credit hours in University Free Electives from courses outside the Social Work major.
### Bachelor of Arts in Social Work

#### Study Plan for Social Work

**FIRST YEAR (30 credit hours)**

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<td>SOWO 101 Intro to Social Work &amp; Social Welfare</td>
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**SECOND YEAR (30 credit hours)**

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<td>SOWO 330 Social Welfare Policy and Services I</td>
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**THIRD YEAR (30 credit hours)**

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**FOURTH YEAR (30 credit hours)**

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### Bachelor of Arts in Psychology

#### About the Psychology Program

The mission of the Psychology Program is to provide students with high quality education by engaging them in inquiry-driven learning and by developing their critical thinking, effective communication, and consensus building skills. The program prepares students to lead successful careers in Psychology including careers in teaching, research and clinical services and enables them to pursue their studies beyond the baccalaureate degree.

#### Objectives

- Students who complete the Psychology Program will:
  - Demonstrate familiarity with the major concepts, theoretical perspectives, empirical findings, and historical trends in psychology
  - Understand and apply basic research methods in psychology, including research design, data analysis, and interpretation
  - Respect and use critical and creative thinking, skeptical inquiry, and when possible, the scientific approach to solve problems related to behavior and mental processes
  - Understand and apply psychological principles to personal, social, and organizational issues
  - Educate students about weighing evidence, tolerate ambiguity, act ethically, and reflect other values that are the underpinnings of psychology as a field of study
  - Provide students with the needed training to be able to demonstrate information competence and the ability to use computers and twenty-first century information technology

#### Learning Outcomes

Upon completion of the major, students will be able to:

- Explain why psychology is a science
- Identify and explain the primary objectives of psychology: describing, understanding, predicting, and controlling behavior and mental processes
- Compare and contrast the assumptions and methods of psychology with those of other disciplines
- Describe how various research designs address different types of questions and hypotheses
- Articulate strengths and limitations of various research designs, including distinguishing between qualitative and quantitative methods
- Recognize that theoretical and sociocultural contexts as well as personal biases may shape research questions, design, data collection, analysis, and interpretation
- Locate and use relevant databases, research, and theory to plan, conduct, and interpret results of research studies
- Demonstrate the ability to understand the stages of human development and to recognize the practical skills needed to apply this understanding to their professional work
- Demonstrate the ability to understand individual differences, including the challenges facing individuals with disabilities
- Demonstrate an attitude of critical thinking that includes persistence, intellectual engagement, tolerance for ambiguity, and intellectual engagement
- Use scientific principles and evidence to resolve conflicting claims
- Develop sound arguments based on reasoning and evidence
- Identify appropriate applications of psychology in solving problems related to psychological tests and measurements, psychology-based interventions in clinical, counseling, educational, industrial/organizational, community, and other settings and their empirical evaluation and the resolution of interpersonal and intracultural conflicts
- Demonstrate proficiency in counseling and therapeutic techniques, including intervention techniques
- Demonstrate the capacity to identify and remediate psychological challenges facing their clients

#### Opportunities

The psychology program prepares students for a wide range of careers as drug and alcohol abuse counselors, family counselors, psychiatric technicians, psychological testing technicians and human service workers. Psychologists might provide psychological help for children, families, couple, groups in different settings. Opportunities also exist for psychologists to work in nonprofit organizations and in health establishments including hospitals and mental health agencies.
**Degree Requirements**

**Major in Psychology**
- A minimum of 120 credit hours are required to complete the major in Psychology, including the following:
  - A minimum of 33 credit hours in Core Curriculum requirements.
  - A minimum of 36 credit hours in Major Requirements
  - A minimum of 6 credit hours in Internship
  - A minimum of 12 credit hours in Major Electives
  - A minimum of 24 credit hours in Minor Requirements
  - A minimum of 8 credit hours in Free Electives

**Core Curriculum Program (33 CH)**
- ARAB 100 Arabic Language I
- ARAB 200 Arabic Language II
- ENGL 110 English I
- ENGL 111 English II
- DAWA 111 Islamic Culture

**Common package (15 CH)**
- PSYC 304 Cognitive Psychology
- PSYC 303 Abnormal Psychology
- PSYC 301 Developmental Psychology
- PSYC 300 Principles of Cognitive Behavioural Therapy
- PSYC 401 Psychological Helping Skills
- PSYC 403 Psychophysiology
- PSYC 406 Capstone

**PSYC 403 Psychophysiology**
- PSYC 406 Capstone

**Internship (6 CH)**
- PSYC 405 Internship

**Major Electives (12 CH)**
- PSYC 306 Emotion and Motivation
- PSYC 308 Sport Psychology
- PSYC 402 Counseling Over the Lifespan
- PSYC 404 Psychology of Family Relations
- SoCI 262 Qualitative Methods
- SoCI 365 Study of Gender

**Minor Requirements (24 CH)**
- PSYC 206 Introduction to Social Psychology
- PSYC 203 Health Psychology
- PSYC 300 Psychology of Personality
- PSYC 302 Principles of Cognitive Behavioural Therapy
- PSYC 401 Psychological Helping Skills
- PSYC 403 Psychophysiology

**Free Electives (9 CH)**
- ENGL 250 English for Communication I
- ENGL 251 English for Communication II

**Social/Behavioral Sciences package (3 CH)**
- Any Course in CCP defined Social/Behavioral Sciences package

**Humanities/Fine Arts package (6 CH)**
- Any Course in CCP defined Humanities/Fine Arts package

**Natural Science/Mathematics package (3 CH)**
- Any Course in CCP defined Natural Science/Mathematics package

**Supplemental College / Program Core Requirements package (6 CH)**
- ENGL 250 English for Communication I
- ENGL 251 English for Communication II

**Major Requirements (36 CH)**
- PSYC 306 Emotion and Motivation
- PSYC 308 Sport Psychology
- PSYC 302 Principles of Cognitive Behavioural Therapy
- PSYC 401 Psychological Helping Skills
- PSYC 403 Psychophysiology

**Minor Electives (6 CH)**
- PSYC 306 Emotion and Motivation
- PSYC 402 Counseling Over the Lifespan
- PSYC 404 Psychology of Family Relations

**Study Plan for Psychology Bachelor of Arts in Psychology**

**First Year (30 credit hours)**

<table>
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<th>Course Title</th>
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**Second Year (30 credit hours)**

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**Third Year (30 credit hours)**

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**Fourth Year (30 credit hours)**

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<td>PSYC 401 Psychological Helping Skills</td>
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<td>PSYC 403 Psychophysiology</td>
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<td>PSYC 406 Capstone</td>
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**Minor in Psychology**

- Students must complete a minimum of 9 credit hours in University Free Electives from courses outside the Psychology major, 6 of which must be in 300-level courses or above.

**Minor in Psychology**
- The minor in psychology is designed to provide students with an introduction to the field of psychology and familiarize them with the major concepts in psychology.
- The minor will provide students with skills needed to recognize, understand, and respect the complexity of sociocultural and international diversity.

**Minor Requirements (18 CH)**
- PSYC 206 Introduction to Social Psychology
- PSYC 203 Health Psychology
- PSYC 300 Principles of Cognitive Behavioural Therapy
- PSYC 401 Psychological Helping Skills
- PSYC 403 Psychophysiology

- PSYC 206 Introduction to Social Psychology
- PSYC 203 Health Psychology
- PSYC 300 Principles of Cognitive Behavioural Therapy
- PSYC 401 Psychological Helping Skills
- PSYC 403 Psychophysiology

- PSYC 403 Psychophysiology
- PSYC 406 Capstone

**Total Credit Hours in Semester**

- 15
DEPARTMENT OF BIOLOGICAL AND ENVIRONMENTAL SCIENCES

College of Arts and Sciences Building Room C218, C219 (Women’s Campus) and B107 (Men’s Campus).
Phone: (974) 4403-4570 / 4534
E-mail: biology@qu.edu.qa
Website: http://www.qu.edu.qa/artssciences/bioenvi/

Acting Head
Fatima Al-Naemi

Faculty

Professors:
Abdel Aziz S. El-Bayoumi; Samir Mohamed Jaoua, Malcolm Potts; , Nabil Zourie, Ipek Gokceke

Associate Professors:
Talaat Abdel-Fattah Ahmad, Jassim A. Al-Khayat, Roda Fahad Al-Thani, Ali Hussein Eid, Mohammed Abu Dieyeh, Sumith Pathirana

Assistant Professors:
Khalid Abdulla Al-Al, Ibrahim M. Al Ansari, Mohsin Al-Arisi, Fahad H. Al-Jami, Ibrahim A. Al Maslamani, Abdul Rahman M. A. Al-Mufthah, Hamda A. Al-Naemi, Nobuyuki Yamaguchi; Fatima AlNaemi; Youssra Sulaiman Al-Faham; Mariam Al-Muftah, , Mohammed AlGhouti, Radhouan Ben Hamoudou

Lecturer:
Mamoud M. Kardousha, Perumal Balakrishnan, Imane Saleh, Radoslav Stefan Ruyntuyk, Munawar Ahmed

Teaching Assistants:
Abdul Rahman Mahjoub Osman; Fatima A. Al-Khayat; Huda Essa Al-Muraikhi; Hareb Al-Jabri; Ghada Al Mahmoud

ABOUT THE DEPARTMENT

The Department offers four programs of study, two Graduate Programs of respectively PhD in Biological & Environmental Sc. and M. Sc. in Environmental Sc. and two Undergraduate Programs of respectively B.Sc. in Biological Sc. and B.Sc. in Environmental Sc. The PhD in Biological & Environmental Sc. provides students with the most advanced research skills enabling them to carry out research independently, publishing and showing innovations and original concept. The B.Sc. in Environmental Sc., started in Fall 2011, is an accredited (CHES-UK) program dedicated to the graduation of professionals and researchers who are committed to the development of a sustainable environment for Qatar. It is an interdisciplinary graduate program in environmental science that is the first choice of students preparing graduates for both industry and PhD programs. The program of B.Sc. in Biological sciences is designed in such a way as to provide proper training and qualification in modern biology, meeting the unprecedented advancement in the field and responding to the needs and aspiration of the Qatar society.

The B.Sc. in Environmental Science is an accredited and the first program at Qatar. It is developed to address escalating issues and problems associated with the environment of Qatar, and the region, as well as imminent and consequential projected needs of stakeholders. All these 4 programs create an exciting and excellent Teaching and Research environment.

BACHELOR OF SCIENCE IN BIOLOGICAL SCIENCES

Objectives
The major in Biological Sciences aims to:
• Develop an understanding of the principles of biological sciences.
• Provide students with intensive laboratory and field experiences.
• Carry out basic and applied research in biological sciences.
• Enhance student abilities to communicate effectively in biological issues.

Major Declaration
In order to declare a major in Biological Sciences, applicants must satisfy the minimum high school percentage requirement of Math, Chemistry and Biology for the major in the semester of admission. In addition, applicants must either successfully complete all requirements of the Foundation Program or satisfy the University’s competency requirement.

Learning Outcomes
Graduates of Biological Sciences major will be able to:
• Define structure and function of organisms.
• Describe ecological systems.
• Understand the nature and use of molecular tools.
• Engage in critical thinking on problem solving activities on a biological topic.
• Demonstrate proficiency in written by giving concise, clear and organized oral presentations on a biological topic.

Opportunities
Graduates in Biological Sciences find employment in government agencies, non-governmental organizations, and in the private sector in clinical, chemical and research laboratories.

DEGREE REQUIREMENTS

Major in Biological Sciences
A minimum of 120 credit hours are required to complete the major in Biological Sciences, including the following:
• A minimum of 33 credit hours in Core Curriculum requirements
• A minimum of 24 credit hours in Major Requirements
• A minimum of 21 credit hours in Major Supporting Requirements

Core Curriculum Program (23 CH)
Common program (15 CH)
• ARAB 100 Arabic Language I
• ARAB 200 Arabic Language II
• ENGL 202 English Language I Post Foundation
• ENGL 203 English Language II Post Foundation
• DAWA 111 Islamic Culture

Social/Behavioral Sciences package (3 CH)
Courses in CCP defined Social/Behavioral Sciences package

Natural Science/Mathematics package (3 CH)
Courses in CCP defined Natural Science/Mathematics package

Humanities/ Fine Arts package (6 CH)
Courses in CCP defined Humanities/Fine Arts package

General Knowledge package (3 CH)
Courses in CCP defined General Knowledge package

General Skills package (3 CH)
Courses in CCP defined General Skills package

Major Requirements (24 CH)
Students must complete a minimum of 24 credit hours in Major required courses:
• BIOL 101 Biology I
• BIOL 102 Biology II
• BIOL 221 Basic Ecology

Major Supporting Requirements (21 CH)
Students must complete a minimum of 21 credit hours in major supporting requirements:
• MATH 101 Calculus I
• CHEM 101 General Chemistry I
• CHEM 103 Experimental General Chemistry I
• CHEM 209 Fundamentals in Organic Chemistry • CHEM 351 Basic Biochemistry
• CHEM 352 Experimental Biochemistry
• STAT 151 Introduction to Applied Statistics
• PHYS 110 General Physics for Biology
• PHYS 111 Practical Physics for Biology

Major Electives (24 CH)
Students must complete a minimum of 24 credit hours in Major elective courses:
• BIOL 211 Cell Biology
• BIOL 322 Desert Biology
• BIOL 344 General Parasitology
• BIOL 621 Genetics
• BIOL 312 Histology
• BIOL 321 Principles of Environmental Biology
• BIOL 412 Genetic Engineering & DNA Technology
• BIOL 421 Ecophysiology
• BIOL 422 Environmental Management & Conservation
• BIOL 442 Biotechnology
• BIOL 444 Immunology
• BIOL 451 Cell & Tissue Culture

Minor Requirements (18 CH)
Students enrolled in the Biological Sciences program must complete the minor in Chemistry to satisfy the program degree requirements.

MINOR IN BIOLOGICAL SCIENCES

The Department of Biological and Environmental Sciences offers an undergraduate minor in Biological Sciences that is intended to increase the programs of students whose major fields are outside the biological sciences and who are interested in obtaining a broad-based perspective in biology.

Minor in Biological Sciences (18 CH)
Students seeking a minor in Biological Sciences must complete a minimum of 18 credit hours, including the following:
• BIOL 241 Microbiology
• BIOL 311 Molecular Biology
• BIOL 361 Plant Anatomy & Physiology
• BIOL 362 Animal Anatomy & Physiology
• BIOL 497 Research Project

Major Supporting Requirements (21 CH)
Students must complete a minimum of 21 credit hours in major supporting requirements:
• MATH 101 Calculus I
• CHEM 101 General Chemistry I
• CHEM 103 Experimental General Chemistry I
• CHEM 209 Fundamentals in Organic Chemistry • CHEM 351 Basic Biochemistry
• CHEM 352 Experimental Biochemistry
• STAT 151 Introduction to Applied Statistics
• PHYS 110 General Physics for Biology
• PHYS 111 Practical Physics for Biology

Major Electives (24 CH)
Students must complete a minimum of 24 credit hours in Major elective courses:
• BIOL 211 Cell Biology
• BIOL 322 Desert Biology
• BIOL 344 General Parasitology
• BIOL 621 Genetics
• BIOL 312 Histology
• BIOL 321 Principles of Environmental Biology
• BIOL 412 Genetic Engineering & DNA Technology
• BIOL 421 Ecophysiology
• BIOL 422 Environmental Management & Conservation
• BIOL 442 Biotechnology
• BIOL 444 Immunology
• BIOL 451 Cell & Tissue Culture

Minor Requirements (18 CH)
Students enrolled in the Biological Sciences program must complete the minor in Chemistry to satisfy the program degree requirements.

MINOR IN BIOLOGICAL SCIENCES

The Department of Biological and Environmental Sciences offers an undergraduate minor in Biological Sciences that is intended to increase the programs of students whose major fields are outside the biological sciences and who are interested in obtaining a broad-based perspective in biology.

Minor in Biological Sciences (18 CH)
Students seeking a minor in Biological Sciences must complete a minimum of 18 credit hours, including the following:
• BIOL 241 Microbiology
• BIOL 311 Molecular Biology
• BIOL 361 Plant Anatomy & Physiology
• BIOL 362 Animal Anatomy & Physiology
• BIOL 497 Research Project
**Study Plan for Biological Sciences**
Bachelor of Science in Biological Sciences

**FIRST YEAR (32 credit hours)**

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<td>ENGL 202</td>
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<td>DAWA 111</td>
<td>Islamic Culture</td>
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<td>BIOL 101</td>
<td>Biology I</td>
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<td>CHEM 101</td>
<td>General Chemistry I</td>
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<td>CHEM 103</td>
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**SECOND YEAR (32 credit hours)**

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**THIRD YEAR (32 credit hours)**

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**FOURTH YEAR (24 credit hours)**

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**Minor Requirements (12 CH)**
Students must complete a minimum of 12 credit hours in Minor required courses:
- BIOL 101 Biology I
- BIOL 102 Biology II
- BIOL 221 Basic Ecology
- BIOL 241 Microbiology

**Minor Electives (6 CH)**
Students must complete a minimum of 6 credit hours in Minor electives courses:
- BIOL 211 Cell Biology
- BIOL 212 Genetics
- BIOL 311 Molecular Biology
- BIOL 321 Principles of Environmental Biology
- BIOL 344 General Parasitology
- BIOL 442 Biotechnology
- BIOL 444 Immunology

**A minimum of 12 credit hours in Minor Requirements**
**A minimum of 6 credit hours in Minor Electives**
Graduates of the Environmental Science major will be able to:

- Possess the fundamental knowledge of areas of environmental science
- Be proficient in the current techniques used in environmental research
- Carry out basic and applied research in environmental science.
- Develop high levels of communication skills
- Current with advances in environmental science
- To be prepared for professional practice and to work in ethical manner with professional teams and to show professional development in their career.

Major Declaration

The admission, transfer and retention policies of the program are consistent with those specified by Qatar University. An applicant must hold a General Secondary Education Certificate or its equivalent with an average of no less than 35 for students of the scientific discipline. Prior to application, students must pass minimum 9 Credit Hours with a GPA: 2.00 and above. Admission is consistent with the highest averages and admission capacity of the Department of Biological and Environmental Sciences. Students’ enrollment starts in fall semester.

Learning Outcomes

Graduates of the Environmental Science major will be able to:

- Define and explain basic principles and concepts in different environmental disciplines.
- Explain the underlying causes for environmental degradation and communications
- Conduct experiments using modern lab techniques and analyze, evaluate and interpret data.
- Employ scientific approaches in interdisciplinary research in a safe and ethical manner, and to be aware of risk assessment, health and safety regulations as well as environmental laws.
- Explain the human dimensions in their profession, including diverse social, cultural, economic, and international aspects
- Apply skilled delivery using verbal, written and electronic communication to convey environmental issues.
- Explain contemporary and emerging environmental issues and to recognize the need for the lifelong learning.
- Develop high levels of communication skills
- To be prepared for professional practice and to work in ethical manner with professional teams and to show professional development in their career.

DEGREE REQUIREMENTS

Major in Environmental Science

A minimum of 125 credit hours are required to complete the major in Environmental Science, depending on the selected concentration.

The degree requirements for the major include the following:

- A minimum of 33 credit hours in Core Curriculum requirements
- A minimum of 54 credit hours in Major courses
- A minimum of 33 credit hours in Major supporting requirements
- A minimum of 14 or 15 CH in concentration requirements: A minimum of 15 CH for the concentration in Biotechnology and a minimum of 14 CH for the concentration in Marine Sciences.

Core Curriculum Requirements (33 CH)

Students must complete a minimum of 33 credit hours in Core Curriculum requirements.

Common package (15 CH)

- ARAB 100 Arabic Language I
- ARAB 200 Arabic Language II
- ENGL 202 English Language I Post Foundation
- ENGL 203 English Language II Post Foundation
- DAWA 111 Islamic Culture

Social/Behavioral Sciences package (3 CH)

- Courses in CCP defined Social/Behavioral Sciences Package

Natural Science/Mathematics package (3 CH)

- MATH 101 Calculus I

Humanities/Fine Arts package (6 CH)

Courses in CCP defined Humanities/Fine Arts packages. Students must complete a minimum of 3 Credit Hours from courses listed in the Qatar and Gulf History Sub-package, which is part of the Humanities/Fine Arts package.

General Knowledge package (3 CH)

SOCI 200 Sustainable Development

General Skills package (3 CH)

Courses in CCP defined General Skills package

Major Requirements (54 CH)

Students must complete a minimum of 54 credit hours in Major courses:

- BIOL 101 Biology I
- BIOL 102 Biology II
- BIOL 221 Fundamentals of Biology
- BIOL 241 Microbiology
- BIOL 399Internship
- BIOL 496 Research Project
- MARS 101 Introduction to Marine Science
- MARS 251 Marine Biology
- CHEM 275 Principles of Environmental Chemistry
- BIOL 322 Desert Biology
- BIOL 422 Environmental Management and Conservation
- BIOL 345 Health Safety and Environment
- CHME 361 Petroleum and Gas Technologies
- CVEN 342 Water Resources and Management
- CVEN 352 Waste Management
- GENG 107 Engineering Skills and ethics
- GEOG 445 Hydro-climatology
- LAWC 449 Environmental Law and Regulations
- MARS 459 Environmental Impact Assessment

Major Electives (9 CH)

Students must complete a minimum of 9 credit hours in Major electives:

- BIOL 212 Genetics
- BIOL 312 Histology
- BIOL 344 General Parastology
- BIOL 351 Plant Anatomy and Physiology
- BIOL 382 Animal Anatomy and Physiology
- BIOL 421 Ecophysiology
- BIOL 444 Immunology
- BIOL 346 Environmental Health
- BIOL 490 Special Topics
- BIOM 324 Medical Virology
- ECOG 204 General Economic Geography
- ECOG 242 Weather and Climate
- ECOG 243 Introduction to Remote sensing
- ECOG 246 Introduction to GIS
- ECOG 441 Geography of Qatar
- ECOG 449 Hydro-geography

Major Supporting Requirements (15 CH)

Students must complete a minimum of 15 CH in major supporting requirements:

- CHEM 101 General Chemistry I
- CHEM 103 General Chemistry II
- CHEM 102 General Chemistry II
- CHEM 104 Experimental General Chemistry II
- BIOL 103 Freshman Seminar
- STAT 151 Introduction to Applied Statistics
- PHYS 110 General Physics for Biology
- PHYS 111 Practical Physics for Biology

Concentration in Biotechnology (15 CH)

Students must complete a minimum of 15 CH in concentration requirements:

- BIOL 310 Molecule Cell Biology
- BIOL 433 Monitoring and Toxicology
- BIOL 443 Biotechnology and Bioremediation
- BIOL 451 Cell and Tissue Culture
- BIOL 452 Molecular Analytical Techniques

Concentration in Marine Sciences (14 CH)

Students must complete a minimum of 14 CH in concentration requirements:

- MARS 222 Chemical Oceanography
- MARS 325 Marine Pollution
- MARS 327 Plankton and Productivity
- MARS 455 Marine Ecology
<table>
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<tr>
<td>Fall</td>
<td>CVEN 342</td>
<td>Water Resources and Management</td>
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</table>
DEPARTMENT OF CHEMISTRY AND EARTH SCIENCES

College of Sciences Building, Room B222 (Women’s Section)
College of Arts and Sciences, Corridor D, Room 121 (Men’s Section)
Phone: (974) 4403-4650/4654/4657
E-mail: headdepchemistry@qu.edu.qa
Website: http://www.qu.edu.qa/artsciences/chemearth/

Head
Hala Sultan Saif Al-Eesa

Faculty
Professor: Hala Sultan Saif Al-Eesa

Professors: Mariam Al-Yousef

Assistant Professors:
Ameena Al-Khal Fakhro
Nimir, Abdulilah Abdulqader Dawoud, Amjad Shraim, Al-Saad Al-Kuwari, Amina Sultan Jaber Al-Jaber, Khalid Ibrahim Ahmad Zainal Al-Ansari, Hamad Abdul-Rahman Lakshmaiah Sreerama, Yousef Hijji

Mohammad Mahroof-Tahir, Siham Y. Al-Qaradawi, Ibrahim Saleh Al-Naimi (on leave), Jan Cornelis Kwak, Mohammad Mahroof-Tahir, Sihem Y. Al-Qaradawi, Lakshmaiah Sreerama, Yousif Hijji

Associate Professors: Hezam Yahya Abdulla, Saeed Hashim Al-Meer, Latifa Al-Qaradawi, Mohammad Mahroof-Tahir, Saeed Hashim Al-Meer, Latifa Al-Qaradawi, Lakshmaiah Sreerama, Yousif Hijji

Professor:
Hala Sultan Saif Al-Eesa

Head

Mariam Al-Yousef

ABOUT THE DEPARTMENT

The Department was established in 1973. It offers a BSc with a Chemistry major (male and female students) and a Chemistry minor (male students). The Chemistry program also offers courses to various programs at Qatar University including Chemical Engineering, Biological and Environmental Sciences, Human Nutrition, Biomedical Science, and Pharmacy. The Geology program offers introductory courses to a wide variety of students, as well as more advanced courses for students with Geology minor. The Chemistry program serves the Qatari community in several aspects, e.g. by offering consultations, suggesting solutions for numerous scientific problems, and by holding symposiums and public lectures. Chemistry faculty members also provide special workshops and training for employees in many sectors. In addition, many graduates from the Chemistry program have come to serve as teachers in a number of schools and academic institutions.

The BSc Chemistry Major program is accredited by the Canadian Society for Chemistry (2009-2014)

BACHELOR OF SCIENCE IN CHEMISTRY

Objectives
• Possess a fundamental knowledge of all major areas of modern chemistry.
• Be proficient in the use of up-to-date laboratory techniques.
• Possess the knowledge to apply quantitative and computational methods to practical problems.
• Become creative researchers and confident problem solvers.
• Practice safe laboratory procedures and assess the environmental impact of chemical processes.
• Develop a high level of communication skills.
• Understand ethical and professional responsibilities as chemists and as citizens.

Major Declaration
In order to declare a major in chemistry, applicants must satisfy college and departmental requirements (http://www.qu.edu.qa/students/admission/undergraduate/program_requirements.php). The department encourages students with interest in sciences to join chemistry program.

Important Accreditation Related Note:
The Chemistry program is accredited by the Canadian Society for Chemistry (CSC). Students completing the chemistry program will be eligible to receive a certificate from CSC saying that they have graduated from a CSC accredited program only if they select a minor in Geology, in Biological Sciences, or in Nutrition. No certificate will be issued to students completing any other minor to satisfy CSC program degree requirements. However, all students successfully completing the program will receive a BSc degree in Chemistry.

Learning Outcomes
By graduation students will be able to:
• Identify and characterize chemical compounds.
• Apply knowledge of theory to solve problems related to all fields of chemistry.
• Conduct research in the field of chemistry and its applications.

• Demonstrate the ability to work effectively in teams with professionals from other disciplines.
• Use mathematical and computational methods and information technology in modern chemistry.
• Apply safety rules in chemical laboratories.
• Communicate effectively using verbal, written and electronic communication skills.
• Value further study and lifelong learning in their chemistry careers.
• Demonstrate commitment to ethical issues in their field of work such as falsification of data, plagiarism, and copyright infringement.

Opportunities
• Qatar Gas
• RasGas
• Qatar Petrochemical Company (QAPCO)
• Qatar Fertilizer Company (QAFCO)
• Qatar Steel Company (QASCOC)
• Qatar Lubricants Company Limited (QALCO)
• Qatar Chemical Company (Q-Chem)
• Qatar Fuel Additives Company (QAFAC)
• Qatar Vinyl Company (QVC)
• Qatar Industrial Manufacturing Company (QIMC)
• Ministry of Environment
• Ministry of Education
• Ministry of Municipal Affairs & Agriculture
• Anti-Doping Lab

DEGREE REQUIREMENTS

Major in Chemistry
A minimum of 120 credit hours are required to complete the major in Chemistry, including the following:
• A minimum of 33 credit hours in Core Curriculum requirements.
• A minimum of 41 credit hours in major Requirements
• A minimum of 15 credit hours in major Electives
• A minimum of 13 credit hours in major supporting requirements
• A minimum of 18 credit hours in minor requirements

Core Curriculum Program (33 credit hours)

Common package (15 CH)
• ARAB 100 Arabic Language I
• ARAB 200 Arabic Language II
• ENGL 202 English Language I Post Foundation
• ENGL 203 English Language II Post Foundation
• DAWA 111 Islamic Culture

Social/Behavioral Sciences package (3 CH)
Courses in CCP defined Social/Behavioral Sciences package

Humanities /Fine Arts package (6 CH)
Courses in CCP defined Humanities/Fine Arts package. Students must complete a minimum of 3 Credit Hours from courses listed in the Qatar and Gulf History Sub-package which is part of the Humanities/Fine Arts package.

Natural Science/Mathematics package (3 CH)
Students must complete a minimum of 3 credit hours from the following courses:
• MATH 103 Calculus I
• BIOL 101 Biology I

General Knowledge package (3 CH)
Courses in CCP defined General Knowledge package

Supplemental College / Program core requirements package (3 CH)
Students must complete a minimum of 3 credit hours from the following courses:
• MATH 101 Calculus I
• BIOL 101 Biology I

Major Requirements (41 CH)
Students must complete a minimum of 41 credit hours in Major required courses:
• CHEM 101 General Chemistry I
• CHEM 102 General Chemistry II
• CHEM 103 Experimental General Chemistry I
• CHEM 104 Experimental General Chemistry II
• CHEM 211 Organic Chemistry I
• CHEM 212 Organic Chemistry II
• CHEM 213 Experimental Organic Chemistry
• CHEM 221 Inorganic Chemistry I
• CHEM 222 Experimental Inorganic Chemistry
• CHEM 231 Analytical Chemistry I
• CHEM 234 Experimental Analytical Chemistry
• CHEM 241 Physical Chemistry I
• CHEM 242 Experimental Physical Chemistry I
• CHEM 331 Analytical Chemistry II
• CHEM 341 Physical Chemistry II
• CHEM 351 Biochemistry
• CHEM 352 Biochemistry
• CHEM 442 Experimental Physical Chemistry II
• CHEM 442 Research Project

Major Electives (15 CH)
Students must complete a minimum of 15 credit hours in Major electives courses:
• CHEM 311 Organic Chemistry III

136
137
CHEM 312 Organic Chemistry IV
CHEM 315 Environmental Chemistry
CHEM 321 Inorganic Chemistry II
CHEM 322 Inorganic Chemistry III
CHEM 342 Physical Chemistry III
CHEM 375 Industrial Chemistry
CHEM 391 Applied Biochemistry
CHEM 401 Special Topics
CMHE 431 Petroleum Refining Process
CMHE 433 Petrochemical Technology

Major Supporting Requirements (13 CH)
- MATH 102 Calculus II
- CMPS 101 Introduction to Computer Science
- PHYS 101 General Physics I
- PHYS 102 General Physics II

Minor Requirements (18 credit hours)
Students enrolled in the Chemistry program may take any of the minors offered within the university, provided that the total number of credit hours for the minor is 18. If the minor the students enrolled in is less than 18 CH, students must take additional courses as free electives to complete the 18 CH requirements.

It is important to note that only students completing a minor in Geology, in Biological Sciences, or in Nutrition will be eligible to receive a certificate from CSC saying that they have graduated from a CSC accredited program. No certificate will be issued to students completing any other minor to satisfy their program degree requirements. Thus, students are encouraged to take one of the following minors in order to satisfy the requirements of the program accredited by the Canadian Society for Chemistry:
- Minor in Biological Sciences
- Minor in Nutrition
- Minor in Geology

MINOR IN GEOLGY

The minor in Geology provides students with an overview of the main topics of the discipline, allowing students to apply this knowledge in other areas.

Minor in Geology (18 CH)
Students seeking a minor in Geology must complete a minimum of 18 credit hours, including the following:
- A minimum of 6 credit hours in Minor requirements
- A minimum of 12 credit hours in Minor electives

Minor Requirements (6 CH)
Students must complete a minimum of 6 credit hours in Minor required courses:
- GEOG 102 Principles of Geology
- GEOG 321 Structural Geology and Geoelectronics

Minor Electives (12 CH)
Students must complete a minimum of 12 credit hours in Minor electives courses:
- GEOG 201 Crystallography & Mineralogy
- GEOG 211 Principles of Paleontology
- GEOG 303 Sediment & sedimentation
- GEOG 322 Survey & field Geology
- GEOG 323 Geophysics
- GEOG 401 Geochemistry
- GEOG 403 Economic Geology
- GEOG 411 Geology of Arabian Peninsula and Qatar
- GEOG 421 Photogeology & Remote Sensing
- GEOG 432 Geology of Petroleum
- GEOG 434 Hydrogeology

Study Plan
Bachelor of Science in Chemistry

**FIRST YEAR (32 credit hours)**

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<td>Fall</td>
<td>MATH 101</td>
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<td>Fall</td>
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<td>Islamic Culture</td>
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<td>MATH 102</td>
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**SECOND YEAR (30-31 credit hours)**

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**THIRD YEAR (32-33 credit hours)**

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**FOURTH YEAR (26 credit hours)**

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*Students with Nutrition minor will take 2 credit courses.
DEPARTMENT OF HEALTH SCIENCES
College of Sciences Building, Room 125 (Women's Section) Phone: (974) 4433-4800
E-mail: health@qu.edu.qa
Website: http://www.qu.edu.qa/departments/health
Head
Asma Althani
Faculty
Associate Professors:
Assistant Professors:
Manwan Abu Madi, Tahra ElObeid, Eiham Sherrif, Gheyath Alazzam, Nathem Zayed, Ibrahim Mustafa
Lecturers:
Tamara Al-Abdi, Maha Al-Azmah, Amal Al-Haidose
Teaching Assistants:
Amna Al-Thani, Eunice Palis, Halal Bargal, Maria Ali, Rana Mahmoud Kurdi, Shadia Gamma Omar, Sumbul Bushra, Tagneeh H. A. Abunada, Tameer Haddwan, Zeina Jamal

ABOUT THE DEPARTMENT
The Department of Health Sciences has three major programs – Biomedical Science, Human Nutrition, and Public Health. These programs provide a unique entity of closely collaborating disciplines that are not found elsewhere in the country. The mission of the department is to promote people’s health and well-being and consequently, to advance knowledge and development.

BACHELOR OF SCIENCE IN BIOMEDICAL SCIENCE
Objectives
The mission of the Biomedical Science major at Qatar University is to provide quality education that prepares future competent Biomedical Scientists with knowledge of theory, practical and critical thinking skills, and research and communication skills; with emphasis on ethics for the healthcare industry. Our graduates are keen on continuous education, professional development and adapt to the changing technology and needs of society. The goals of the Biomedical Sciences major are to help students to:

- Acquire knowledge related to the field of biomedical science.
- Gain practical skills related to the laboratory field.
- Develop communication skills.
- Enhance critical thinking skills.
- Employ modern information technology related to the health field.
- Sustain high professional ethics and behavior.
- Conduct research related to biomedical science.
- Maintain an interest in lifelong learning and career development.

Major Declaration
Students will be accepted twice a year for each fall and spring semester based upon the above criteria. The faculty will evaluate each applicant according to the above criteria to review the applicants and determine who should be accepted. Once accepted, students will be given a study plan that must adhere to.

Admission to the Biomedical Science Major
1. Completion of the Qatar University Foundation Program Requirements
2. Minimum Secondary School Grade for the Final Year 75%
3. Completion of 12 credit hours in General Science that includes IBOC 101 with a minimum grade of C

Additional Requirements
Students must complete a capstone research project prior to their last semester in the program. The Biomedical Science program also requires students to complete clinical rotations in area hospital laboratories. These clinical practice rotations will be coordinated by the program and corequisite the courses in the student’s last semester of study.

Learning Outcomes
- Demonstrate conceptual knowledge in biomedical field.
- Perform basic laboratory techniques in biomedical labs.
- Comply with safety regulations and universal precautions.
- Communicate effectively with colleagues and clients.
- Solve problems related to discrepancies in test results.
- Integrate patient data for evaluation of validity of laboratory test results.
- Apply computer-technology in clinical laboratory data processing, data reporting and information retrieval.
- Maintain strong professional ethics.

Opportunities
A biomedical scientist is an individual who performs and evaluates laboratory tests using a variety of methods. The results of these tests provide the information needed to diagnose disease or monitor treatment of patients. It has been estimated that as much as 60 to 70% of the information used to treat patients comes from the clinical laboratory. Most clinical laboratory scientists begin their professional careers working in a laboratory in an acute care or community hospital. However, job opportunities also exist in physician offices, public health laboratories, reference laboratories, research laboratories, and forensic laboratories. Opportunities for employment exist in industry. In this type of setting a biomedical scientist may be involved in research and development for the production of pharmaceuticals, reagents, or other biological products. Biomedical Science is appropriate for someone with a strong interest in science who wants a health career with minimal patient contact. You should enjoy “hands on” laboratory work. You should be a team player who is self-motivated and works well under pressure. Additionally, one should have good manual dexterity, good attention to detail and enjoy doing precise work.

Accreditation
The Biomedical Science Program is accredited by the US National Accrediting Agency for Clinical Laboratory Sciences (NAACLS) for the period from April 2013 to March 2020. It is the first academic program outside of the US to receive accreditation by NAACLS. National Accrediting Agency for Clinical Laboratory Sciences, 5600 N. River Rd. Suite 720 Rosemont, IL 60018-5119 773.714.8880 773.714.8680 (FAX) www.naaccsl.org

DEGREE REQUIREMENTS
Major in Biomedical Science
A minimum of 135 credit hours are required to complete the major in Biomedical Science, including the following:

- A minimum of 33 credit hours in Core Curriculum requirements
- A minimum of 61 credit hours in Major Requirements
- A minimum of 37 credit hours in Major Electives
- A minimum of 4 credit hours in Major Electives

Core Curriculum Program (33 CH)
Common package (15 CH)
- ARAB 100 Arabic Language I
- ARAB 200 Arabic Language II
- ENGL 202 English Language I Post Foundation
- ENGL 203 English Language II Post Foundation
- DAWA 111 Islamic Culture

Social/Behavioral Sciences package (3 CH)
Courses in CCP defined Social/Behavioral Sciences package

Humanities /Fine Arts package (6 CH)
Courses in CCP defined Humanities/Fine Arts package.

Natural Science/Mathematics package (3 CH)
- MATH 101 Calculus I

General Knowledge package (3 CH)
Courses in CCP defined General Knowledge package

General Skills package (3 CH)
Courses in CCP defined General Skills package

Major Requirements (61 CH)
Students must complete a minimum of 61 credit hours in Major required courses:

- BIOL 311 Molecular Biology
- BIOM 301 Lab Management and QC
- BIOM 322 Medical Microbiology
- BIOM 323 Medical Parasitology
- BIOM 346 Clinical Chemistry
- BIOM 418 Pharmacology and Toxicology
- BIOM 422 Diagnostic Microscopy
- BIOM 426 Clinical Immunology
- BIOM 444 Histopathology
- BIOM 446 Urine Analysis and Body Fluids
- BIOM 451 Hematology and Hemositas
- BIOM 452 Immunohematology & Blood Bank
- BIOM 463 Endocrinology
- BIOM 491 Clinical Practice in Chemistry
- BIOM 492 Clinical Practice in Hematology & Blood Bank
- BIOM 493 Clinical Practice in Immunology
- BIOM 494 Clinical Practice in Microbiology
- BIOM 495 Clinical Practice in Immunohematology

BACHELOR OF SCIENCE IN HUMAN NUTRITION
Study Plan for the Biomedical Science program: students joining the program in Fall

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- **BIOM 496** Professional Development
- **BIOM 497** Research Project

**Major Supporting Requirements (37 CH)**

Students must complete a minimum of 37 credit hours in Major Supporting courses:
- **BIOL 101** Biology I
- **BIOL 241** Microbiology
- **BIOM 211** Human Anatomy
- **BIOM 212** Human Histology
- **BIOM 215** Human Physiology
- **BIOM 217** Human Genetics
- **BIOM 243** Introduction to Pathology
- **CHEM 101** General Chemistry I
- **CHEM 103** Experimental General Chemistry I
- **CHEM 209** Fundamentals in Organic Chemistry
- **CHEM 351** Basic Biochemistry
- **CMPS 101** Introduction to Computer Science
- **STAT 151** Introduction to Applied Statistics

**Major Electives (4 CH)**

Students must complete a minimum of 4 credit hours in Major Elective courses:
- **BIOM 213** Embryology
- **BIOM 400** Seminar
- **BIOM 401** Special Topics
- **BIOM 402** Special Topics
- **BIOM 411** Forensic Science
- **CHEM 231** Analytical Chemistry I
- **CHEM 234** Experimental Analytical Chemistry
- **PHYS 110** General Physics For Biology
- **PHYS 111** Practical Physics For Biology

- **BIOM 101** Biology
- **CHEM 101** General Chemistry
- **CHEM 209** Experimental General Chemistry
- **MATH 101** Calculus
- **Total 16**

- **BIOM 211** Human Anatomy
- **BIOM 212** Human Histology
- **CHEM 209** Fundamentals in Organic Chemistry
- **Total 18**

- **BIOM 215** Human Physiology
- **BIOM 217** Human Genetics
- **CMPS 101** Introduction to Computer Science
- **BIOL 241** Microbiology
- **Total 18**

- **BIOL 243** Introduction to Pathology
- **CHEM 351** Basic Biochemistry
- **CHEM 352** Experimental Biochemistry
- **Core 9**

- **BIOM 496** Professional Development
- **BIOM 497** Research Project

- **BIOM 213** Embryology
- **BIOM 217** Human Genetics
- **CMPS 101** Introduction to Computer Science
- **BIOL 241** Microbiology
- **Total 18**

- **BIOM 324** Medical Virology
- **BIOM 346** Clinical Chemistry
- **BIOM 402** Special Topics
- **STAT 151** Introduction to Applied Statistics
- **Total 14**

- **BIOM 418** Pharmacology & Toxicology
- **BIOM 463** Endocrinology
- **BIOM 466** Urine Analysis & Body Fluids
- **BIOM 451** Hematology & Hemostasis
- **BIOM 323** Medical Parasitology
- **Total 18**

- **BIOM 301** Laboratory Management
- **BIOM 444** Histopathology
- **BIOM 422** Diagnostic Microbiology
- **BIOM 452** Immunohematology & Blood Bank
- **BIOM 497** Research Project 1
- **Forensic Science (or Electives)**
- **Total 15**

- **BIOM 491** CP in Chemistry
- **BIOM 492** CP in Hematology
- **BIOM 493** CP in Immunology
- **BIOM 494** CP in Microbiology
- **BIOM 495** CP in Immunohematology
- **BIOM 496** Professional Development
- **Total 18**
## Study Plan for Biomedical Sciences program: students joining the program in Spring

### Spring 1st Semester

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Objectives
Prepares graduates for careers as dietitians and nutrition professionals who will enhance the role of healthy nutrition on the health and wellbeing of individuals and population groups in the Middle East and North Africa Region.

Develop graduates with expertise in pediatric clinical nutrition to address the nutrition care needs of children/adolescents with overweight, obesity, diabetes, and inherited errors of metabolism (predominantly homozygynia).

Major Declaration
In order to declare a major in Human Nutrition, applicants must satisfy the minimum high school percentage requirements for the major in the semester of admission. Students must pass BIOL 101 with a grade of C or better and complete a minimum of 12 credit hours with an overall semester average of 2.0 (out of 4.0). In addition, applicants must either successfully complete all requirements of the Foundation Program or satisfy the University’s competency requirement.

Requirements for Continuance in the Human Nutrition Program
Students must complete a capstone research project prior to their last semester in the program. The Human Nutrition program also requires students to complete and pass a supervised professional practice of 20 credit hours before graduation.

Learning Outcomes
• CRD 1.1 Demonstrate effective speaking skills for oral presentations.
• CRD 1.2 Demonstrate effective writing skills that include preparation of research proposals, manuscripts, project proposals, education materials, policies and procedures.
• CRD 1.3 Justify programs, products, services and care for dietetics practice
• CRD 1.4 Demonstrate effective communicating skills using oral, print, visual, electronic and non-verbal modalities.
• CRD 1.5 Conduct research projects using appropriate research methods, ethical procedures and statistical analysis.

Major in Human Nutrition
A minimum of 132 credit hours are required to complete the major in Human Nutrition, including coursework:
- A minimum of 33 credit hours in Core Curriculum requirements
- A minimum of 12 credit hours in Major Requirements
- A minimum of 48 credit hours in Nutrition & Dietetics requirements
- A minimum of 10 credit hours in Food Sciences and Technology requirements
- A minimum of 29 credit hours in Major supporting classes

Core Curriculum Program (33 CH)
Common package (15 CH)
- ARAB 100 Arabic Language I
- ARAB 200 Arabic Language II
- ENGL 202 English Language I Post Foundation
- ENGL 203 English Language II Post Foundation
- DAWA 111 Islamic Culture

Social/Behavioral Sciences package (3 CH)
Courses in CCP defined Social/Behavioral Sciences package

Humanities /Fine Arts package (6 CH)
Courses in CCP defined Humanities/Fine Arts package.
Students must complete a minimum of 3 Credit Hours from courses listed in the Qatar and Gulf History Sub-package which is part of the Humanities/Fine Arts package.

Natural Science/Mathematics package (3 CH)
Courses in CCP defined Natural Science/Mathematics package

General Knowledge package (3 CH)
Courses in CCP defined General Knowledge package

General Skills package (3 CH)
Courses in CCP defined General Skills package

Major Requirements (70 CH)
Students must complete a minimum of 70 CH in Major required courses including 12 CH in Major core requirements, 48 CH in Nutrition & Dietetics package

DEGREE REQUIREMENTS
Minor in Human Nutrition (18 CH)

Students seeking a minor in Human Nutrition must complete a minimum of 18 CH including the following:
- A minimum of 8 CH in Minor requirements
- A minimum of 10 CH in Minor electives

Minor Requirements package (8 CH)

Students must complete a minimum of 8 CH in Minor required courses:
- NUTR 221 Principles of Food Science and Nutrition
- NUTR 231 Human Nutrition
- NUTR 321 Food Chemistry

Minor Electives package (10 CH)

Students must complete a minimum of 10 CH in Minor elective courses including:
- NUTR 319 Quantity of Food Production & Equipment
- NUTR 333 Nutritional Metabolism I
- NUTR 338 Nutrition through the Lifespan
- NUTR 441 Food Safety and Quality Control
- NUTR 443 Management of Food Services Operations 1
- NUTR 443 Management of Food Services Operations 2

Study Plan for Human Nutrition
Bachelor of Sciences in Human Nutrition

FIRST YEAR (31 credit hours)

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SECOND YEAR (33 credit hours)

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Food Sciences and Technology package (10 CH)

Students must complete a minimum of 10 CH in Food Sciences and Technology requirements:
- NUTR 319 Quantity of Food Production & Equipment
- NUTR 441 Food Safety and Quality Control
- NUTR 442 Management of Food Services Operations I
- NUTR 443 Management of Food Services Operations II

Major Supporting Requirements (29 CH)

Students must complete a minimum of 29 credit hours in Major supporting courses:
- CHEM 101 General Chemistry I
- CHEM 103 Experimental General Chemistry I
- CHEM 200 Fundamentals in Organic Chemistry
- CHEM 351 Basic Biochemistry
- CHEM 352 Experimental Biochemistry
- BIOL 101 Biology I
- BIOL 241 Microbiology
- BIOM 211 Human Anatomy
- BIOM 215 Human Physiology
- BIOM 217 Human Genetics
- MATH 101 Calculus

MINOR IN HUMAN NUTRITION

The minor in Human Nutrition will provide students with knowledge of nutritional biochemistry, digestion, absorption and metabolism. Students will have opportunities to examine the role of nutrition throughout the life cycle, as well as study of the social and economic influences on nutrition. The minor also introduces student to food science and its applications in food industry.
### ABOUT THE PROGRAM

The Bachelor of Science in Public Health was designed to promote the development of public policies, programs and services that support a healthy and fulfilling life for the population in Qatar. This degree prepares students to join the interdisciplinary field of Public Health, which addresses the distribution and determinants of health and disease states in the population as well as the appropriate and effective interventions to address them. Crucially, the public health approach reaches beyond the individual-level focus of clinical medicine by addressing a broad range of preventive health factors and by developing public policies that positively impact human health on both a national and regional level.

Students in this program will take courses covering the core knowledge areas of Public Health, namely Epidemiology, Biostatistics, Environmental Health Sciences, Health Services Administration, and Social and Behavioral Sciences. Undergraduate students of the Public Health Program will also be well prepared to pursue graduate work in a Master of Public Health program and/or other related disciplines.

Committed to providing an innovative curriculum which will be continuously updated in line with local needs and international trends in the discipline, the Program is differentiated into two concentrations:

1. **Health Management**
2. **Health Education**

In addition to the learning outcomes common to all concentrations, students in the Health Management concentration will develop the ability to:

- Demonstrate knowledge of effective management of public health programs and interventions
- Apply management theories and concepts to local specificities, and justify proposed courses of action
- Demonstrate leadership skills in public health
- Demonstrate knowledge of effective management of public health programs and interventions

Students in the Health Education concentration will develop the ability to:

- Demonstrate knowledge of effective management of health services and programs
- Conduct appropriate research and develop analysis skills, including research questions, data sources, and appropriate methodologies
- Assess evidence used to implement and evaluate public health interventions
- Communicate effectively about public health issues

### Mission

The mission of the Public Health Program is to provide leadership in public health education and to facilitate the development of effective public health policies on both national and regional levels. Through high-quality experiential and relevant research, the program will promote the concepts and practice of health promotion, disease prevention, rational policy making, and efficient and effective management of preventive and curative health services and programs.

### Objectives

The objectives of the Public Health Program are to:

1. Provide students with comprehensive instruction in the international standards for public health.
2. Teach students the concepts and practices of health promotion and disease prevention and the complexities of eliminating health disparities in human populations.
3. Cultivate within students the ability to analyze public health policies and interventions, assessing their effectiveness and proposing possible alternatives.
4. Teach students the basics of health service organization, financing, delivery and evaluation.

### Major Declaration

In order to declare a major in Public Health, applicants must satisfy the minimum high school percentage requirement for the major in the semester of admission. Students must have completed 12 ICH, including STAT 101 with a grade of C or better and a minimum GPA of 2.0. In addition, applicants must either successfully complete all requirements of the Foundation Program or satisfy the University’s competency requirement.

### Learning Outcomes

The key learning outcomes for the Program are as follows:

1. **Core Learning Outcomes (common to all concentrations):**
   - Apply public health concepts as a broad and complex domain of professional practice and inquiry, with specific reference to the local context.
   - Analyze local and international public health problems with inferences from history and milestones in the evolution of the public health field.
   - Examine ethical issues relevant to public health practice, especially as they apply to local specificities, and justify proposed courses of action.
   - Apply research skills to generate well-formed questions and approaches to answering them — including research questions, data sources, and appropriate methodologies.
   - Assess evidence used to implement and evaluate public health interventions.
   - Communicate effectively about public health issues.

In addition to the learning outcomes common to all concentrations, students in the Health Education concentration will develop the ability to:

- Demonstrate leadership skills in public health
- Apply management theories and concepts to public health issues
- Demonstrate knowledge of effective management of public health programs and interventions
- Demonstrate knowledge of effective management of public health services
Opportunities
The Bachelor of Science in Public Health will prepare stu-
dents both for further graduate work and for careers in the
area of public health. Given the specific concentrations of
the program, graduates of the program are expected to
find employment opportunities in health care organizations
as well as in organizations outside the health sector (such
as schools and non-governmental organizations) in capaci-
ties related to health research, health program planning,
policy formulation and assessment, management, program
evaluation and health education.

Graduates of the Public Health program can work in:
• Public and private health care settings
• Schools and universities
• Research centers
• Non-governmental health-oriented associations
• National and International Development Organizations

DEGREE REQUIREMENTS

Major in Public Health
A minimum of 120 credit hours are required to complete
the major in Public Health, including the following:
• A minimum of 33 credit hours in Core Curriculum
requirements.
• A minimum of 33 credit hours in Major Requirements
• A minimum of 12 credit hours in Major Supporting
Requirements.
• A minimum of 9 credit hours in Major Electives
• A minimum of 24 credit hours in Concentration
Requirements.
• A minimum of 9 credit hours in Free Electives

Core Curriculum Program (33 CH)
Common package (15 CH)
• ARAB 100 Arabic Language I
• ARAB 200 Arabic Language II
• ENGL 202 English Language I Post Foundation
• ENGL 203 English Language II Post Foundation
• DAWA 111 Islamic Culture
Social/Behavioral Sciences package (3 CH)
Any Course in CCP defined Social/Behavioral Sciences
package
Humanities /Fine Arts package (6 CH)
Students must complete 6 CH from courses in the CCP
defined Humanities/Fine Arts package including a mini-
um of 3 Credit Hours from courses listed in the Qatar
and Gulf History Subpackage part of the Humanities/Fine
Arts package.

Natural Science/Mathematics package (3 CH)
Any Course in CCP defined Natural Science / Mathematics
package

General Knowledge package (3 CH)
Courses in CCP defined General Knowledge package

General Skills package (3 CH)
Courses in CCP defined General Skills package

Major Requirements (33 CH)
Students must complete the following courses:
• PUBH 101 Public Health Sciences: Principles and
Practice
• PUBH 201 Environmental Health and Disease
• PUBH 202 Health, Behaviour and Society
• PUBH 205 Research Methods for Public Health
• PUBH 241 Biostatistical Methods for Public Health
• PUBH 301 Public Health Ethics
• PUBH 303 Epidemiology
• PUBH 306 Public Health Systems, Management, and
Policy Development
• PUBH 320 Health Communication
• PUBH 390 Field Experience
• PUBH 499 Capstone

Major Supporting Requirements (12 CH)
Students must complete a minimum of 12 credit hours in
major supporting requirements:
• STAT 101 Statistics 1
• CHEM 101 General Chemistry 1
• CHEM 103 Experimental General Chemistry 1
• BIOL 110 Human Biology
• BIOM 243 Introduction to Pathology

Major Electives (9 CH)
Students must complete a minimum of 9 credit hours in
courses selected from the following:
• PUBH 200 International Health and Global Society
• PUBH 206 Classification of Diseases
• PUBH 208 Quality of Health Care
• PUBH 221 Community Health Issues
• PUBH 305 Air Pollution and Human Health
• PUBH 420 Design of Program Evaluation Systems
• PUBH 421 Health Promotion and Disease Prevention for
Women Across the Lifespan
• PUBH 428 Prevention Science
• PUBH 439 Public Health Preparedness
• POP 300 Principles and Tools for Evidence-Based
Policy Decision Making
• POP 340 Organizational Behavior and Management in
Public Service Agencies

Concentration in Health Education (24 CH)
Students must complete a minimum of 24 credit hours in
the Health Education concentration requirements package.

Health Education Concentration Requirements package
(24 CH)
Students must complete the following courses:
• PUBH 221 Contemporary Health Issues
• PUBH 222 Foundations of Health Education
• PUBH 310 Needs Assessment Methods for Health
Education Programs
• PUBH 312 Planning for Health Education Programs
• PUBH 314 Health Education Practice
• PUBH 335 Nutrition and Health Education
• PUBH 421 Health Promotion and Disease Prevention for
Women Across the Lifespan
• PUBH 426 Prevention Science
• NUTR 221 Principles of Food Science and Nutrition

Concentration in Health Management (24 CH)
Students must complete a minimum of 24 credit hours in
the Health Management concentration requirements package.

Health Management Concentration
Requirements package (24 CH)
Students must complete the following courses:
• ECON 111 Principles of Microeconomics
• MAGT 101 Principles of Management
• MAGT 302 Human Resource Management
• PUBH 230 Strategic Planning and Marketing
• PUBH 338 Financial Management of Health Care
• PUBH 420 Design of Program Evaluation Systems
• PUBH 430 Health Economics
• PUBH 439 Public Health Preparedness

Free Electives (9 CH)
Students must complete a minimum of 9 credit hours in
University Free Electives from courses outside the Public
Health major.

Study Plan for Health Education
Bachelor of Sciences in Public Health

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**Study Plan for Health Management Concentration**  
Bachelor of Sciences in Public Health

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**SECOND YEAR (30 credit hours)**

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**THIRD YEAR (30 credit hours)**

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**FOURTH YEAR (30 credit hours)**

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ABOUT THE DEPARTMENT

The Departments of Mathematics, Statistic and Physics were integrated into a single department in September 2004, which grew in size and number to include 44 staff members, 17 of which are Qatari nationals. The new Department of Mathematics, Statistic & Physics consists of three different programs: Mathematics, Statistics and Physics, and the department aim to provide an excellent undergraduate teaching. Currently there is one major that leads to the Bachelor degree of Science in Statistics with minor in computer science, business or social science. The Department offers also service courses for various Colleges and Programs within the University.

BACHELOR OF SCIENCE IN STATISTICS

Program Objectives

• Collect data that conform with the statistical principles.
• Use relevant experimental design for scientific investigations.
• Describe various types of data numerically and graphically.
• Analyze various types of data using statistical packages.
• Use effectively the statistical packages to conduct the various types of statistical tasks.
• Demonstrate the theoretical basis of statistical methods.
• Provide alternative techniques for data analysis based on various approaches.

Major Declaration

Students must complete a minimum of 3 Credit Hours from the Core Curriculum Program (33 credit hours)

Major Core Requirements (39 CH)

• A minimum of 12 credit hours in Major Supporting requirements
• A minimum of 33 credit hours in Core Curriculum requirements

Minor in Statistics (24 CH)

• A minimum of 6 credit hours in Minor electives

Major Electives (12 CH)

Students must complete a minimum of 12 credit hours in Major electives courses:
• STAT 211 Introduction to Probability
• STAT 221 Mathematical Statistics I
• STAT 231 Applied Regression Analysis
• STAT 312 Stochastic Processes
• STAT 322 Mathematical Statistics II
• STAT 332 Design of Experiments
• STAT 333 Time Series
• STAT 361 Sampling Methods
• STAT 371 Statistical Packages
• STAT 481 Multivariate Analysis
• STAT 499 Graduation Project

Major Requirements (12 CH)

Students must complete a minimum of 12 credit hours in Core Curriculum requirements

Common packages (15 CH)

• MATH 101 Calculus I
• MATH 102 Calculus II

Major Core Requirements (3 CH)

• MATH 251 Mathematics for Statistics
• MATH 102 Calculus II
• MATH 101 Calculus I

Major electives courses:
• STAT 341 Actuarial Statistics I
• STAT 343 Applied Survival Analysis
• STAT 344 Quality Control
• STAT 371 Statistical Simulation
• STAT 381 Categorical Data Analysis
• STAT 382 Nonparametric Methods
• STAT 434 Generalized Linear Models
• STAT 442 Actuarial Statistics II
• STAT 445 Reliability and Life Testing
• STAT 465 Environmental Statistics
• STAT 482 Bayesian Statistics
• STAT 498 Special Topics

Minor Requirements (24 CH)

Students enrolled in the Statistics program may take any of the minors offered within the university.

MINOR IN STATISTICS

The minor in Statistics is designed to provide students with a firm foundation in statistical theory so that they can confidently collect and analyze their data with the help of statistical packages.

Minor in Statistics (24 CH)

Students seeking a minor in Statistics must complete a minimum of 24 credit hours, including the following:
• A minimum of 12 credit hours in Minor requirements
• A minimum of 6 credit hours in Minor electives
### Minor Requirements (18 CH)
Students must complete a minimum of 18 credit hours in Minor required courses:
- STAT 101 Statistics I
- STAT 102 Statistics II
- STAT 211 Introduction to Probability
- STAT 231 Applied Regression Analysis
- STAT 361 Sampling Methods
- STAT 371 Statistical Packages

### Minor Electives (6 CH)
Students must complete a minimum of 6 credit hours in Minor electives courses:
- STAT 221 Mathematical Statistics I
- STAT 241 Biostatistics
- STAT 242 Demography
- STAT 332 Design of Experiments
- STAT 333 Time Series
- STAT 343 Applied Survival Analysis
- STAT 344 Quality Control
- STAT 372 Statistical Simulation
- STAT 381 Categorical Data Analysis
- STAT 382 Nonparametric Method

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**Study Plan for Statistics**
Bachelor of Science in Statistics

#### FIRST YEAR (30 credit hours)

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The Bachelor’s degree in Sport Science - Sport Management seeks to prepare competent leadership in sports, as well as create and disseminate managerial knowledge in sport business and industry. The goal of the program is to create a collaborative and nurturing learning environment for analyzing and resolving the challenges in the business, management, and culture of sports. With this as a foundation, students can enter the business and management world with knowledge, preparation, and the confidence to assume leadership positions.

BACHELOR OF SCIENCE IN SPORT SCIENCE

Objectives
- The program will train the students to understand the functional anatomy and biomechanics of the human body.
- The program will introduce the students to the physiological basis for exercise and physical activity in direct applications of physical fitness and athletic conditioning.
- The program will facilitate the students to assess health status, conduct fitness testing, and prescribe and administer exercise programs.
- The program will familiarize the students to perform health and wellness programming based upon the ability to assess needs, and to design, implement, and evaluate a project.
- The program will generate the context of recognizing cultural diversity; representations of the human body; learning the impact of social, economic, and political forces; experiencing exercise, sport and allied health settings.
- The program will help the students to formulate an enhancing communication in requiring essay and analytical writing; presenting ideas in career-related setting; counseling listening to, and advising others.
- The program will facilitate the students problem solving skills. Thinking creatively and synthesizing information for integrative solutions.
- The program will introduce the students to criticize information: with internet and web-based technology; with laboratory equipment and instrumentation; and collecting, analyzing and presenting data for presentation.

Major Declaration
In order to declare a major in Sport Science, applicants must satisfy the minimum high school percentage requirement for the major in the semester of admission. In addition, applicants must either successfully complete all requirements of the Foundation Program or satisfy the University’s competency requirements. A minimum score of 450 on the TOEFL (or equivalent) is required.

Additional Requirements
- Medical clearance for participating in physical activity.
- All applicants to the Sport Science Program will be required to appear for a personal interview. The interview will take place after the Physical Fitness Test, at the same day.

Learning Outcomes
- Discuss public Physical Activity as a broad and complex domain of practice and inquiry.
- Describe the principles of physiology, psychology and its connection to training, testing, and programming.
- Apply research skills to generate well-formed questions that integrate core knowledge to scientific fields of sport.
- Analyze data and develop solutions for sports related problems.
- Argue on public health and sport related issues effectively.
- Manage sport related projects in the public and private sector.
- Additional Learning Outcomes for the Sport Management Concentration Area.
- Solve Sport management related problems.
- Make decisions in complex environments of Sport management and Sport marketing.
- Discuss the economical responsibilities in Sport marketing.
- Additional Learning Outcomes for the Exercise and Fitness Concentration Area.
- Explain the pathophysiology of non-communicable diseases.
- Manage public health programs and physical activity related interventions.
- Develop strategies to prevent non-communicable diseases for individuals and communities.
- Additional Learning Outcomes for the Physical Education Concentration Area.
- Plan and implement effective instruction to maximize student learning in physical education.
- Integrate the knowledge into the physical education teaching practice.
- Promote positive changes in Physical Education.

Opportunities
The Bachelor’s degree in Sport Science major was developed to address escalating market needs in fields of Physical Education, Sport Management and Exercise and Fitness. The interdisciplinary nature of the program and its anticipated learning outcomes will provide wide range of employment opportunities for the program graduates. Graduates will be ready for roles such as PE Teachers, trainers and coaches, club managers, event managers, facilities managers, officers of national and international sports associations, as well as community advocates for fitness and healthy lifestyles.

DEGREE REQUIREMENTS
Major in Sport Science
An minimum of 100 credit hours are required to complete the major in sport science, including the following:
- A minimum of 33 credit hours in core curriculum requirements.
- A minimum of 51 credit hours in major requirements.
- A minimum of 36 credit hours in concentration requirements.

Core Curriculum Program (33 CH) Common package (15 CH)
- ARAB 100 Arabic Language I
- ARAB 200 Arabic Language II
- ENGL 202 English Language I Post Foundation
- ENGL 203 English Language II Post Foundation
- DAWA 111 Islamic Culture

Social/Behavioral Sciences package (3 CH)
Courses in CCP defined Social/Behavioral Sciences package.

Humanities/Fine Arts package (6 CH)
Courses in CCP defined Humanities/Fine Arts package.

Natural Science/Mathematics package (3 CH)
Courses in CCP defined Natural Science/Mathematics Package.

General Knowledge package (3 CH)
Courses in CCP defined General Knowledge package.

General Skills package (3 CH)
Courses in CCP defined General Skills package.
Exercise and Fitness Concentration Supporting Requirements (9 CH)

Students must complete all courses listed below:
- SPSC 406 Concepts of Fitness and Nutrition
- SPSC 305 Sport Marketing and Management I
- SPSC 407 Sport Governance and Economics I
- SPSC 311 First Aid and CPR

Concentration in Sport Management (36 CH)

Students must complete a minimum of 24 credit hours in concentration requirements and 12 CH in concentration supporting requirements.

Sport Management Concentration Core Requirements (24 CH)
- MATH 119 Business Math I
- ECON 111 Principles of Microeconomics
- MAGT 101 Principles of Management
- ACCT 110 Financial Accounting
- MAK 101 Principles of Marketing
- FINA 201 Principles of Finance
- ECON 112 Principles of Macroeconomics
- MAGT 306 International Business

Sport Management Concentration Supporting Requirements (12 CH)
- SPSC 305 Sport Marketing and Management I
- SPSC 407 Sport Marketing and Management II
- SPSC 409 Sport Governance and Management I
- SPSC 410 Sport Governance and Economics II

Concentration in Physical Education (36 CH)

Students must complete a minimum of 36 credit hours in concentration requirements.
- SPSC 209 Biomechanics and Movement Analysis
- EDUC 310 Foundation of Education in Qatar and School Reform
- SPSC 399 Physical Education in Schools
- SPSC 349 Developmental Psychology
- EDEC 411 Health and Safety of Young Children
- EDUC 317 Inclusive Classrooms
- EDUC 312 Curriculum and Assessment
- EDUC 316 Classroom Management
- SPSC 449 Teaching PE in Primary Schools
- SPSC 475 Teaching PE in Secondary Schools
- SPSC 499 Internship

Concentration in Exercise and Fitness (36 CH)

Students must complete a minimum of 27 credit hours in concentration requirements and 9 CH in concentration supporting requirements.

Exercise and Fitness Concentration Core Requirements (27 CH)
- SPSC 209 Biomechanics and Movement Analysis
- SPSC 302 Fitness Testing and Training
- SPSC 303 Exercise and Metabolism
- SPSC 403 Exercise, Obesity and Diabetes
- SPSC 404 Exercise and Heart Disease
- SPSC 309 Exercise and Aging
- SPSC 318 Exercise Psychology
- SPSC 307 Exercise Physiology II
- SPSC 405 Testing and Exercise Prescription

FALL

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SPRING

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THIRD YEAR (30 credit hours)

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FOURTH YEAR (27 credit hours)

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### Sports Science Program

#### Study Plan for Exercise and Fitness Concentration

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#### Study Plan for Physical Education Concentration

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### General Skills Package

- **Fall**: 3 hours
- **Spring**: 3 hours

#### Humanities/Fine Arts

- **Fall**: 6 hours
- **Spring**: 3 hours

#### Social/Behavioral Sciences

- **Fall**: 3 hours
- **Spring**: 3 hours

#### General Knowledge

- **Fall**: 3 hours
- **Spring**: 3 hours

#### Qatar and Gulf History

- **Fall**: 3 hours
- **Spring**: 3 hours

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#### Qatar and Gulf History

- **Fall**: 3 hours
- **Spring**: 3 hours

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DEPARTMENT OF EDUCATIONAL SCIENCES

OBJECTIVES

The Department of Educational Sciences is committed to the educational preparation of human power necessary to work at different education institutions at different jobs and specializations in a way that qualify them for continual professional development and continuing higher studies.

DEPARTMENT OF EDUCATIONAL SCIENCES - PROGRAMS:

BACHELOR OF EDUCATION IN PRIMARY EDUCATION

OBJECTIVES

• Support the mission of Qatar University to provide experts needed for Qatar Society.
• Provide highly qualified primary teachers, so that all children in Qatar’s primary schools may receive a world class education.
• Develop teacher-leaders, who will contribute to ongoing progress in teaching, scholarship, and leadership in Qatar.

Major Declaration

In order to declare a major in Primary Education, applicants must satisfy the minimum high school percentage requirement for the major in the semester of admission.

Learning Outcomes

Graduates from this major will:
• Demonstrate knowledge of how primary-aged children grow and develop, and how that impacts their learning.
• Use their knowledge of the processes of educational reform in Qatari society to design cutting-edge educational programs for their students.
• Incorporate modern methods of teaching, including educational technology, into their own educational practices.
• Understand and apply current educational research methods to better their teaching practices.
• Engage in teaching practices that demonstrate a belief that all children can learn.

Opportunities

Graduates from the Primary Education major are prepared to seek employment in the educational sector, namely, private, as well as government-run primary schools for children. Other possible job opportunities are also connected with the educational sector, such as working in international or governmental agencies connected with education.
General Skills package (3 CH) Only students selecting a concentration area in English/ESL must complete this package requirements by completing 3 CH in courses listed in the CCP defined General Skills package. Students selecting other concentration areas must complete the Supplemental College/Program Core Requirements package.

Supplemental College/Program Core Requirements package (6 CH) Only students selecting a concentration area in Early Childhood, Arabic Studies, or Math and Science must complete this package requirements by completing 6 CH from the courses listed below. Students selecting the English/ESL concentration area must satisfy the requirements of the General Knowledge and the General Skills packages.
- ENGL 250 English for Communication I
- ENGL 251 English for Communication II

Major Requirements (36 CH) Students must complete 27 CH from the Major Core Requirements sub-package and 9 CH from the Training Course Requirements sub-package.

Major Core Requirements (27 CH) • EDUC 310 Foundations of Education in Qatar and School Reform
• EDUC 311 Applications in Second Language Acquisition
• EDUC 312 Curriculum and Assessment
• EDUC 313 Developing Literacy in Children
• EDUC 314 Technology for Children
• EDUC 315 Child Development & Learning
• EDUC 316 Classroom Management
• EDUC 317 Inclusive Classrooms
• EDUC 318 Integrating Visual Arts

Training Course Requirements (9CH) Students must complete a minimum of 9 credit hours by completing one of the following courses depending on the selected concentration:
- EDUC 481 Student Teaching - Early Childhood
- EDUC 482 Student Teaching - Arabic Studies
- EDUC 483 Student Teaching - Math and Science
- EDUC 484 Student Teaching - English/ESL

Major Free Electives (6 CH) Students must take a minimum of 6 credit hours from the list of courses listed below:
- EDUC 200 Education and Societal Problems
- EDUC 201 Research Methodology
- PSYC 201 Introduction to Psychology
- PSYC 205 Social Psychology
- EDUC 203 Family Relationships
- EDUC 100 Photography

Concentration in Early Childhood (45 CH) Students must complete a minimum of 45 credit hours by completing the following courses in concentration requirements:

Early Childhood Concentration Requirements (45 CH)
- EDEC 410 Play and the Theory of Movement
- EDEC 411 Health and Safety of Young Children
- EDEC 412 Community Outreach and Resources
- EDEC 413 Integrated Math and Science for Young Children
- EDEC 482 Teaching Reading and Writing to Young Children
- EDEC 483 Teaching Arabic Language to Young Children
- EDEC 484 Integrated Social Studies to Young Children
- EDEC 464 ESL and Young Children
- BIOL 101 Biol I
- BIOL 102 Biol II
- MATH 103 Intermediate Algebra
- GEOG 110 General Geography
- ENGL 150 Essay Writing I
- ENGL 156 Introduction to Literature I
- ARAB 213 Grammar I
- DAWA 113 Philosophy of Sirah

Concentration in Math and Science (45 CH) Students must complete a minimum of 45 credit hours by completing the following courses in concentration requirements:

Math and Science Concentration Requirements: (45 CH)
- EDPR 410 Reading and Writing in all Disciplines
- EDPR 450 Teaching Primary Level Science
- EDPR 461 Teaching Primary Level Mathematics
- EDPR 462 Methods in Inquiry and Research
- BIOL 101 Biology I
- BIOL 102 Biology II
- BIOL 221 Basic Ecology
- CHEM 103 Experimental General Chemistry I
- CHEM 101 General Chemistry I
- PHYS 183 Introduction to General Physics
- GEOL 101 Principles of General Geology
- MATH 103 Intermediate Algebra
- MATH 104 Basic Geometry and Measures
- BIOL 101 Basic Analysis
- STAT 101 Statistics I
- ENGL 150 Essay Writing I

Concentration in Arabic Studies (45 CH) Students must complete a minimum of 45 credit hours by completing the following courses in concentration requirements:

Arabic Studies Concentration Requirements: (45CH)
- EDPR 446 Teaching Primary Level English (ESL I)
- EDPR 447 Teaching Primary Level English (ESL II)
- EDPR 455 Teaching Primary Level Reading
- EDPR 410 Reading and Writing in all Disciplines
- BIOL 101 Biology I
- MATH 103 Intermediate Algebra
- MATH 104 Basic Geometry and Measures
- ENGL 153 Essay Writing II
- ENGL 158 Introduction to Language
- ENGL 156 Introduction to Literature I
- ENGL 157 Introduction to Linguistics
- ENGL 158 Introduction to Literature II
- ENGL 305 First Language Acquisition
- ENGL 309 Second Language Acquisition
- ENGL 426 Children's Literature...
### 1. Study Plan for the Math and Sciences Concentration
Bachelor of Education in primary Education

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#### SECOND YEAR (34 credit hours)

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<td>General Chemistry I</td>
<td>3</td>
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<td></td>
<td>CHEM 103</td>
<td>Experimental General Chemistry I</td>
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<td>3</td>
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<tr>
<td></td>
<td>EDUC 317</td>
<td>Inclusive Classrooms</td>
<td>3</td>
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<tr>
<td></td>
<td>EDUC 313</td>
<td>--- Developing Literacy in Children</td>
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<td></td>
<td>BIOL 101</td>
<td>Essay Writing I</td>
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<td>MATH 102</td>
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<td>MATH 104</td>
<td>Basic Geometry and Measures</td>
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<td>GEOL 101</td>
<td>General Geology</td>
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#### THIRD YEAR (29 credit hours)

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<td>PHYS 183</td>
<td>Introduction to General Physics</td>
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<td>EDPR 462</td>
<td>Methods in Inquiry and Research</td>
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#### FOURTH YEAR (27 credit hours)

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<td>ENGL 156</td>
<td>Introduction to Literature I</td>
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<td>Spring</td>
<td>EDEC 463</td>
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<td></td>
<td>ARAB 213</td>
<td>Grammar I Arabic</td>
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<td>EDEC 452</td>
<td>Teaching Reading and Writing for Young Children</td>
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<td></td>
<td>BIOL 102</td>
<td>--- General Biology II</td>
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<td>EDUC 316</td>
<td>--- Classroom Management</td>
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### 2. Study Plan for Early Childhood
Bachelor of Education in primary Education

<table>
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<td>GEOG 110</td>
<td>General Geography</td>
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<td></td>
<td>BIOL 101</td>
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<tr>
<td></td>
<td>EDUC 317</td>
<td>Inclusive Classrooms</td>
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<td></td>
<td>EDUC 313</td>
<td>--- Developing Literacy in Children</td>
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<tr>
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<td>ENGL 150</td>
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<td>Spring</td>
<td>EDUC 311</td>
<td>Applications in Second Language Acquisition</td>
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<td></td>
<td>EDEC 411</td>
<td>Health and Safety of Young Children</td>
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<td>MATH 103</td>
<td>Intermediate Algebra</td>
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#### THIRD YEAR (29 credit hours)

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<thead>
<tr>
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<tr>
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<td>ESL and Young Children</td>
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<td></td>
<td>EDEC 454</td>
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<td>EDEC 413</td>
<td>Integrated Math and Science</td>
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#### FOURTH YEAR (27 credit hours)

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<td>EDEC 413</td>
<td>Integrated Math and Science</td>
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### Study Plan for Arabic Studies
Bachelor of Education in primary Education

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<td>EDUC 310</td>
<td>Foundations of Education in Qatar and School Reform</td>
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<td>ISLA 105</td>
<td>Analytical Hadith</td>
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<td>ARAB 319</td>
<td>Arabic Grammar II</td>
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<td>HIST 222</td>
<td>The Gulf in Modern Period</td>
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<td>EDER 447</td>
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<td>ISLA 106</td>
<td>Jurisprudence of Worship</td>
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### Study Plan for English
Bachelor of Education in primary Education

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<td>ISLA 103</td>
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<td>HIST 111</td>
<td>History of the Muslim World 1 (600-1187)</td>
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<td>ARAB 218</td>
<td>Morphology</td>
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<td>Developing Literacy in Children</td>
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<td>EDUC 317</td>
<td>Inclusive Classrooms</td>
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<td>EDUC 318</td>
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<td>EDER 456</td>
<td>Student Teaching in Arabic</td>
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Major in Secondary Education

A minimum of 120 credit hours are required to complete the major in Secondary Education, including the following:

• A minimum of 33 credit hours in core curriculum requirements
• A minimum of 36 credit hours of major core requirements
• A minimum of 6 credit hours of major electives
• A minimum of 45 credit hours of concentration requirements

Core Curriculum Requirements (33 CH)

Common packages

Satisfying this package requirements depend on the concentration area selected by students. In addition to the course on Islamic Culture listed below students must complete one of the language sub-packages. Students selecting the Concentration area in Arabic Language must complete the Language I Sub-package. Students selecting a concentration area in Islamic Studies or Social Studies must complete the Language II Sub-package. Students selecting the Mathematics, Biology, Physics, or Chemistry concentration area must complete the Language III Sub-package. Students selecting the English concentration area must complete the Language IV Sub-package.

Language I sub-package (12 CH)
• ARAB 109 Language Skills
• ARAB 110 Intro to Literature and Language
• ENGL 110 English I
• ENGL 111 English II

Language II sub-package (12 CH)
• ARAB 100 Arabic Language I
• ARAB 200 Arabic Language II
• ENGL 110 English I
• ENGL 111 English II

Language III sub-package (12 CH)
• ARAB 110 Arabic Language II
• ARAB 200 Arabic Language II
• ENGL 202 English Language I Post Foundation
• ENGL 203 English Language II Post Foundation

Language IV sub-package (12 CH)
• ARAB 100 Arabic Language I
• ARAB 200 Arabic Language II
• ENGL 150 Essay Writing I
• ENGL 151 Advanced Reading Comprehension

Social/Behavioral Sciences package (3CH)
Courses in CCP defined Social/Behavioral Sciences package

Humanities /Fine Arts package (6 CH)
Courses in CCP defined Humanities/Fine Arts package

Natural Science/Mathematics package (3 CH)
Satisfying this package requirements depend on the concentration area selected by students. Students selecting the Concentration area in Arabic Language, Islamic Studies, Social Studies, English, Mathematics, Biology or Chemistry concentration areas must complete one course from the list of courses defined in the CCP Natural Science/Mathematics package. Students selecting the Physics concentration area must complete the following course:

• ENGL 101 Principles of Geology

General Knowledge package (3 CH)
Only students selecting a concentration area in English, Mathematics, Biology, Physics, or Chemistry must complete this package requirements by completing 3 CH in courses listed in the CCP defined General Knowledge package. Students selecting other concentration areas must complete the Supplemental College / Program Core Requirements package.

General Skills package (3 CH)
Only students selecting a concentration area in English, Mathematics, Biology, Physics, or Chemistry must complete this package requirements by completing 3 CH in courses listed in the CCP defined General Skills package. Students selecting other concentration areas must complete the Supplemental College / Program Core Requirements package.

Supplemental College / Program Core Requirements package (6 CH)
Only students selecting a concentration area in Arabic Language, Islamic Studies, or Social Studies must complete this package requirements by completing 6 CH from the courses listed below. Students selecting the English, Mathematics, Biology, Physics, or Chemistry concentration areas must satisfy the requirements of the General Knowledge and the General Skills packages:

• ENGL 250 English for Communication I
• ENGL 251 English for Communication II

Supplemental College / Program Core Requirements package (6 CH)

Methods for Arabic sub-package (6 CH)

Methods for English sub-package (6 CH)

Methods for Islamic Studies sub-package (6 CH)

Methods for Social Studies sub-package (6 CH)

Methods for Mathematics sub-package (6 CH)

Methods for Physics sub-package (6 CH)

Concentration in Arabic (45 CH)

Major Electives (6 CH)

Students selecting the languages concentration area must complete a minimum of 6 credit hours from the courses listed below:

• EDUC 100 Photography
• EDUC 200 Education and Societal Problems
• EDUC 201 Research Methodology
• EDUC 203 Family Relationships
• PSYC 201 Introduction to Psychology
• PSYC 205 Social Psychology

Methods for Biology sub-package (6 CH)

Methods for Chemistry sub-package (6 CH)

Methods for Social Sciences sub-package (6 CH)

Methods for Mathematics sub-package (6 CH)

Methods for Physics sub-package (6 CH)

Methods for Chemistry sub-package (6 CH)

Methods for Biology sub-package (6 CH)

Methods for Social Sciences sub-package (6 CH)

Methods for Mathematics sub-package (6 CH)

Methods for Physics sub-package (6 CH)

Methods for Chemistry sub-package (6 CH)

Methods for Biology sub-package (6 CH)

Methods for Social Sciences sub-package (6 CH)

Methods for Mathematics sub-package (6 CH)

Methods for Physics sub-package (6 CH)

Methods for Chemistry sub-package (6 CH)

Methods for Biology sub-package (6 CH)
Concentration in English/ESL (45 CH)
Students must complete a minimum of 42 credit hours from the English/ESL Concentration Requirements package and a minimum of 3 credit hours from the English/ESL Concentration Supplementary Requirements package.

English/ESL Concentration Requirements (42 CH)
- ENGL 120 Essay Writing II
- ENGL 155 Introduction to Language
- ENGL 156 Introduction to Linguistics
- ENGL 158 Introduction to Literature II
- ENGL 220 History of the English Language
- ENGL 230 Professional Writing
- ENGL 303 Sociolinguistics
- ENGL 305 First Language Acquisition
- ENGL 306 The Short Story
- ENGL 330 Structure of the English Language
- TRAN 312 Linguistic Comparison of Arabic and English
- ENGL 408 Post-Colonial Literature

English/ESL Concentration Supplementary Requirements (3CH)
- ENGL 209 Language and Society
- ENGL 213 Language and Culture
- ENGL 224 Language and Gender

Concentration in Social Studies (45 CH)
Students must complete a minimum of 45 credit hours by completing the following courses in concentration requirements:

Social Studies Concentration Requirements (45 CH)
- GEOG 100 General Geography
- GEOG 300 Geography of Arab World
- GEOG 357 Geography of the World
- GEOG 441 Geography of Qatar
- HIST 103 An Introduction to History
- HIST 111 History of the Muslim World I (600-1187 C.E.)
- HIST 131 World History since 1300
- HIST 212 History of the Muslim World II (1187-1516 C.E.)
- HIST 213 Modern Arab History (1516-1919)
- HIST 314 Economic and Social History of the Muslim World
- INTA 102 Introduction to Political Science
- INTA 200 Globalization
- SOCI 120 Introduction to Sociology
- SOCI 200 Sustainable Development
- SOCI 361 Human Rights

Concentration in Biology (45 CH)
Students must complete a minimum of 45 credit hours by completing the following courses in concentration requirements:

Biology Concentration Requirements (45 CH)
- BIOL 101 Biology I
- MARS 101 Introduction to Marine Science
- PHYS 183 Introduction to General Physics
- CHEM 101 General Chemistry I
- CHEM 103 Experimental General Chemistry I
- BIOL 102 Biology II
- BIOL 110 Human Biology
- BIOL 212 Genetics
- BIOL 221 Basic Ecology
- BIOL 241 Microbiology
- BIOL 311 Molecular Biology
- BIOL 312 Animal Histology
- BIOL 321 Principles of Environmental Biology
- BIOL 467 Regional Ecosystem
- BIOL 492 Environmental Mgmt and Conservation

Concentration in Chemistry (45 CH)
Students must complete a minimum of 45 credit hours by completing the following courses in concentration requirements:

Chemistry Concentration Requirements (45 CH)
- CHEM 101 General Chemistry I
- CHEM 102 General Chemistry II
- CHEM 103 Experimental General Chemistry I
- CHEM 104 Experimental General Chemistry II
- BIOL 101 Biology I
- GEOL 101 Principles of Geology
- PHYS 183 Introduction to General Physics
- CHEM 209 Fundamentals in Organic Chemistry
- CHEM 212 Organic Chemistry II
- CHEM 213 Experimental Organic Chem
- CHEM 221 Inorganic Chemistry I
- CHEM 222 Experimental Inorganic Chem
- CHEM 231 Analytical Chemistry I
- CHEM 234 Experimental Analytical Chem
- CHEM 241 Physical Chemistry I
- CHEM 242 Experimental Physical Chemistry I
- CHEM 321 Inorganic Chemistry II
- CHEM 331 Analytical Chemistry II
- CHEM 351 Basic Biochemistry
- CHEM 352 Experimental Basic Biochemistry

Concentration in Physics (45 CH)
Students must complete a minimum of 45 credit hours by completing the following courses in concentration requirements:

Physics Concentration Requirements (45 CH)
- PHYS 101 General Physics I
- PHYS 102 General Physics II
- PHYS 103 General Physics Lab
- BIOL 101 Biology I
- MATH 101 Calculus I
- MATH 102 Calculus II
- MATH 211 Calculus III
- CHEM 101 General Chemistry I
- CHEM 103 Experimental General Chemistry I
- PHYS 115 Electricity & Magnetism
- PHYS 116 Electricity & Magnetism Lab
- PHYS 201 Renewable Energy
- PHYS 221 Electronics
- PHYS 311 Modern Physics
- PHYS 301 Electromagnetic Theory I
- PHYS 331 Classical Mechanics I
- PHYS 332 Quantum Mechanics I

Concentration in Mathematics (45 CH)
Students must complete a minimum of 45 credit hours by completing the following courses in concentration requirements:

Mathematics Concentration Requirements (45 CH)
- STAT 101 Statistics I
- MATH 101 Calculus I
- MATH 102 Calculus II
- PHYS 101 General Physics I
- GENG 106 Computer Programming
- MATH 211 Calculus III
- MATH 213 Differential Equations
- MATH 220 Foundations of Mathematics
- MATH 222 Real Analysis I
- MATH 231 Linear Algebra
- MATH 233 Abstract Algebra
- MATH 304 Complex Analysis
- MATH 333 Experimental Number Theory
- MATH 341 Modern Geometry
- MATH 366 Numerical Analysis I

Concentration in Islamic Studies (45 CH)
Students must complete a minimum of 45 credit hours by completing the following courses in concentration requirements:

Islamic Studies Concentration Requirements (45 CH)
- ISLA 101 Studies in Islamic Creed
- ISLA 102 Quranic Sciences
- ISLA 103 Quranic Exegesis
- ISLA 104 Sciences of Hadith
- ISLA 105 Analytical Hadith
- ISLA 106 Fiqh of Worship
- ISLA 205 Intellectual Foundations of Islamic Civilization
- ISLA 302 Family Law
- ISLA 308 Contemporary Intellectual Trends
- DAWA 207 Islamic Institutions
- DAWA 214 Textual Study of the Quran
- FIQH 303 Fiqh of Zakat and Awqaf
- USUL 335 Contemporary Studies in Quran and Sunna
- USUL 407 Thematic Exegesis
- USUL 439 Contemporary Muslim World
### Study Plan for Secondary Education

**Bachelor of Education in Secondary Education**

<table>
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<tr>
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<th>Course #</th>
<th>Course Title</th>
<th>Credit Hours</th>
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<td></td>
<td>EDUC 310</td>
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<td></td>
<td>EDUC 331</td>
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<td></td>
<td>EDUC 317</td>
<td>Inclusive Classrooms</td>
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<td>EDUC 332</td>
<td>Second Language Acquisition in Second Language</td>
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<td>EDUC 34x</td>
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<td>Fall</td>
<td>EDUC 316</td>
<td>Classroom Management</td>
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<td>EDSE 46x</td>
<td>EDSE 46x Methods II: Inquiry and ICT for X</td>
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<td>EDSE 491 Stu- dent Teaching in Secondary Education</td>
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</table>

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**DEPARTMENT OF ACCOUNTING AND INFORMATION SYSTEMS**

College of Business and Economics Building Room C123
Phone: (974) 4403-5005
Website: http://www.qu.edu.qa/business

**College of Business and Economics Building**

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Phone: (974) 4403-5005
Website: http://www.qu.edu.qa/business

**Dean**

Nitham Mohd. Hindi

**Associate Dean for Academic Affairs**

Adam Fadalla

**Associate Dean for Research and Graduate Studies**

Belaied Aouni

Assistant Dean for Student Affairs

Bakri Souhbra

**ABOUT THE COLLEGE**

The College of Business and Economics provides a high quality, applied business education in a collegial, intellectually stimulating, and supportive learning and working environment. Guided by the university reform plan and committed to innovative curriculum and continuous improvement, the college offers undergraduate and graduate business programs that connect theory to practice, promote critical thinking, and engage students in active and collaborative learning. The College of Business and Economics selects and retains a diverse faculty and staff who uphold the professional standards of their respective disciplines, consistent with our mission and values thus producing quality applied scholarship, including contributions to practice, teaching and pedagogical research.

**DEGREE OFFERINGS**

The College of Business and Economics offers the following undergraduate degree programs:
- Bachelor of Business Administration with a major in Accounting
- Bachelor of Business Administration with a major in Finance
- Bachelor of Business Administration with a major in Economics
- Bachelor of Business Administration with a major in Management
- Bachelor of Business Administration with a major in Marketing

**DEPARTMENT OF ACCOUNTING AND INFORMATION SYSTEMS**

College of Business and Economics Building Room C123
Phone: (974) 4403-5005
Website: http://www.qu.edu.qa/business

**Dean**

Nitham Mohd. Hindi

**Faculty**

Professors:
- Khaled Al-Khatieb, Emad Awadallah
- Associate Professors:

**ABOUT THE DEPARTMENT**

The Department of Accounting and Information Systems offers a major in Accounting and a minor in Information Systems. Accounting is commonly known as “the language of business”. Accounting provides the information needed by managers to make business decisions; it generates information about a firm’s resources, the sources of the resources, and how effectively the resources have been utilized. The accountant prepares, communicates, and interprets this information, and thus is an integral member of the leadership team of any organization. The intense pace of technological change has prompted a widespread deployment of information technology throughout the world. The opportunity afforded by this technology, and the demands placed on management by global competition, generate a premium for those individuals who are able to use information technology to solve business problems.
BACHELOR OF BUSINESS ADMINISTRATION IN ACCOUNTING

Objectives
The Accounting major aims to prepare students for positions of leadership and responsibility in contemporary organizations. More specifically, the major focuses on the following objectives:
• Provide students with high-quality academic, technical and professional knowledge to pursue a career in accounting.
• Prepare students with technical and analytical skills and competencies in accounting.
• Incorporate ethical issues in business decision making.
• Conduct research that contributes to professions of accounting.
• Promote effective interaction with the business community.

Major Declaration
In order to declare a major in Accounting, students should have completed a minimum of 45 credits and be in good academic standing. Students should obtain approval from their academic advisors, head of department, and associate dean for student affairs.

Learning Outcomes
Graduates of the Bachelor of Business Administration in Accounting are expected to:
• Demonstrate effective written communication skills;
• Demonstrate effective oral communication skills;
• Utilize information technology in making business decisions;
• Incorporate the ethical dimensions in business decision-making;
• Work effectively in teams;
• Solve accounting related problems;
• Incorporate the social responsibility dimensions in business decision-making.

Opportunities
The Accounting major prepares undergraduate students for careers in business and to pursue for graduate studies. Applied education and our strong industry links provide students with work opportunities in a variety of organizations. Graduates in Accounting may have career in a variety of businesses. Significant employers are accounting and auditing firms, banks, insurance companies, service companies, private businesses, governmental agencies, and energy and oil companies, just to cite a few. An accounting graduate will have the chance to pursue a career as a certified accountant and work as an auditor (external/internal), business advisor, systems analyst, and in some cases, tax advisor.

DEGREE REQUIREMENTS

Major in Accounting
Minimum of 125 credit hours are required to complete the Bachelor of Business Administration, major in Accounting, including the following:
• A minimum of 33 credit hours in university core curriculum requirements
• A minimum of 42 credit hours in college core requirement.
• A minimum of 6 credit hours in college supporting requirement.
• A minimum of 15 credit hours in major requirements
• A minimum of 9 credit hours in major electives

Core Curriculum Program Requirements (33 credit hours)
Common package (15 CH)
• ENGL 111 English I
• ENGL 112 English II
• ENGL 250 English for Communication I
• ENGL 251 English for Communication II
• ENGL 320 English for Communication III

Social/Behavioral Sciences package (3CH)
Courses in CCP defined Social/Behavioral Sciences package
• ENGL 111 English I
• ENGL 112 English II
• ENGL 250 English for Communication I
• ENGL 251 English for Communication II
• ENGL 320 English for Communication III

Supplemental College/Program core requirements package (6 CH)
• MATH 119 Business Math I
• MATH 221 Business Math II
• MATH 322 Business Statistics I
• MATH 222 Business Statistics II

College Core Requirements (42 CH)
Students must complete the following list of courses:
• ACCT 116 Financial Accounting
• ACCT 116 Managerial Accounting
• ECON 111 Principles of Microeconomics
• ECON 112 Principles of Macroeconomics
• MATH 101 Principles of Marketing
• MIST 201 Introduction to MIS

College Supporting Requirements (6 CH)
Students must complete the following list of courses:
• ACCT 221 Intermediate Accounting I
• MAGT 304 Production & Operations Management
• MAGT 307 Internship in Business

College Core Requirements (42 CH)
Students must complete the following list of courses:
• ACCT 421 Auditing I
• ACCT 422 Auditing II
• ACCT 423 Financial Statement Analysis
• ACCT 424 International Accounting
• ACCT 425 Accounting Information Systems

Minor in Management Information Systems (15 CH)
Students must complete a minimum of 12 CH in the minor core requirements and a minimum of 3 CH in the minor electives.

Management Information Systems Minor Core Requirements (12 CH)
Students seeking a minor in Management Information Systems must complete the following courses:
• MIST 301 Introduction to Programming
• MIST 302 Database Management Systems
• MIST 303 Systems Analysis and Design
• MIST 304 Data Communication and Networking

Management Information Systems Minor Electives (3 CH)
Students seeking a minor in Management Information Systems must complete 3 CH from the following courses:
• MIST 401 Computer Engineering
• MIST 402 Computer Systems and Applications
• MIST 403 Project Management
• MIST 404 Information Technology for Financial Services
• MIST 405 Innovation with Information Technology
• MIST 406 Principles of Information Security

Minor in Accounting (15 CH)
Students must complete a minimum of 12 CH in the minor core requirements and a minimum of 3 CH in the minor electives.

Minor in Accounting Core Requirements (12 CH)
Students seeking a minor in Accounting must complete the following courses:
• ACCT 221 Intermediate Accounting I

Minor in Management Information Systems (15 CH)
Students seeking a minor in Management Information Systems must complete the following courses:
• MIST 301 Introduction to Programming
• MIST 302 Database Management Systems
• MIST 303 Systems Analysis and Design
• MIST 304 Data Communication and Networking

Management Information Systems Minor Electives (3 CH)
Students seeking a minor in Management Information Systems must complete 3 CH from the following courses:
• MIST 401 Computer Engineering
• MIST 402 Computer Systems and Applications
• MIST 403 Project Management
• MIST 404 Information Technology for Financial Services
• MIST 405 Innovation with Information Technology
• MIST 406 Principles of Information Security

University Free Elective Requirements (5 CH)
Students must complete a minimum of 5 credit hours in free university electives.

Minor in Accounting (15 CH)
Students must complete a minimum of 12 CH in the minor core requirements and a minimum of 3 CH in the minor electives.

Minor in Accounting Core Requirements (12 CH)
Students seeking a minor in Accounting must complete the following courses:
• ACCT 221 Intermediate Accounting I

Minor in Management Information Systems (15 CH)
Students seeking a minor in Management Information Systems must complete the following courses:
• MIST 301 Introduction to Programming
• MIST 302 Database Management Systems
• MIST 303 Systems Analysis and Design
• MIST 304 Data Communication and Networking

Management Information Systems Minor Electives (3 CH)
Students seeking a minor in Management Information Systems must complete 3 CH from the following courses:
• MIST 401 Computer Engineering
• MIST 402 Computer Systems and Applications
• MIST 403 Project Management
• MIST 404 Information Technology for Financial Services
• MIST 405 Innovation with Information Technology
• MIST 406 Principles of Information Security

Minor in Accounting (15 CH)
Students must complete a minimum of 12 CH in the minor core requirements and a minimum of 3 CH in the minor electives.

Minor in Accounting Core Requirements (12 CH)
Students seeking a minor in Accounting must complete the following courses:
• ACCT 221 Intermediate Accounting I

Minor in Management Information Systems (15 CH)
Students seeking a minor in Management Information Systems must complete the following courses:
• MIST 301 Introduction to Programming
• MIST 302 Database Management Systems
• MIST 303 Systems Analysis and Design
• MIST 304 Data Communication and Networking

Management Information Systems Minor Electives (3 CH)
Students seeking a minor in Management Information Systems must complete 3 CH from the following courses:
• MIST 401 Computer Engineering
• MIST 402 Computer Systems and Applications
• MIST 403 Project Management
• MIST 404 Information Technology for Financial Services
• MIST 405 Innovation with Information Technology
• MIST 406 Principles of Information Security

Minor in Accounting (15 CH)
Students must complete a minimum of 12 CH in the minor core requirements and a minimum of 3 CH in the minor electives.

Minor in Accounting Core Requirements (12 CH)
Students seeking a minor in Accounting must complete the following courses:
• ACCT 221 Intermediate Accounting I

Minor in Management Information Systems (15 CH)
Students seeking a minor in Management Information Systems must complete the following courses:
• MIST 301 Introduction to Programming
• MIST 302 Database Management Systems
• MIST 303 Systems Analysis and Design
• MIST 304 Data Communication and Networking

Management Information Systems Minor Electives (3 CH)
Students seeking a minor in Management Information Systems must complete 3 CH from the following courses:...
Study Plan for Accounting Major
Bachelor of Business Administration in Accounting

SECOND YEAR (36 credit hours)

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<td>ENGL110</td>
<td>English I</td>
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<td>Fall</td>
<td>ARA8101</td>
<td>Arabic Language</td>
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<td>Fall</td>
<td>XXXX001</td>
<td>Humanities/Fine Arts Package</td>
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<tr>
<td>Fall</td>
<td>XXXX001</td>
<td>Social/Behavioral Sciences Package</td>
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<td>Fall</td>
<td>DAWA111</td>
<td>Islamic Culture</td>
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<td>ENGL111</td>
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<td>ARAB200</td>
<td>Arabic Language II</td>
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THIRD YEAR (30 credit hours)

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<td>Fall</td>
<td>STAT230</td>
<td>Business Stat I</td>
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FOURTH YEAR (29 credit hours)

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<td>Fall</td>
<td>MIST201</td>
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<td>ACCT222</td>
<td>Intermediate Accounting II</td>
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<td>Spring</td>
<td>ACCT333</td>
<td>Auditing I</td>
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<td>XXXX001</td>
<td>Course from Minor or Free College Elective</td>
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<tr>
<td>Spring</td>
<td>LAW215</td>
<td>Business Law</td>
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<td>MAGT307</td>
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</table>
requirements and electives
- A minimum of 5 credit hours in University free elective requirement

Core Curriculum Program Requirements (33 credit hours)
- ARAB 100 Arabic Language I
- ARAB 200 Arabic Language II
- ENGL 110 English I
- ENGL 111 English II
- DAWA 111 Islamic Culture

Social/Behavioral Sciences package (3CH)
Courses in CCP defined Social/Behavioral Sciences package

Humanities/Fine Arts package (6 CH)
Courses in CCP defined Humanities/Fine Arts package. Students must complete a minimum of 3 Credit Hours from courses listed in the Qatar and Gulf History Sub-package which is part of the Humanities/Fine Arts package.

Natural Science/Mathematics package (3 CH)
- Math 102 Intermediate Algebra

Supplemental College / Program core requirements package (6 CH)
- ENGL 250 English for Communication I
- ENGL 251 English for Communication II

College Core Requirements (42 CH)
Students must complete the following list of courses:
- ACCT 110 Financial Accounting
- ACCT 116 Managerial Accounting
- ECON 110 Principles of Microeconomics
- ECON 112 Principles of Macroeconomics
- MGMT 101 Principles of Marketing
- MGMT 201 Introduction to MIS
- FINA 201 Principles of Finance
- MGMT 101 Principles of Management
- MGMT 204 Production & Operations Management
- MGMT 307 Internship in Business
- MGMT 405 Strategic Management
- MATH 221 Business Math II
- STAT 220 Business Statistics I
- STAT 222 Business Statistics II

College Supporting Requirements (6 CH)
Students must complete the following list of courses:
- MATH 119 Business Math I
- LAW 215 Business Law

Major Requirements (15 CH)
Students must complete the following list of courses:
- ECON 211 Intermediate Microeconomics
- ECON 212 Intermediate Macroeconomics
- ECON 214 Monetary Policy
- ECON 311 Econometrics
- ECON 453 International Economics
- Major Electives (9 CH)
Students must complete a minimum of 9 credit hours in courses selected from the following list:
- ECON 451 Economic Development
- ECON 452 Industrial Economics
- ECON 454 Economics of Energy
- ECON 472 Managerial Economics
- ECON 475 Contemporary Topics in Economics

Minor or No Minor Requirements (15 CH)
Students with a major in Economics may choose a minor in Management Information Systems, in Finance, in Accounting, in Management, in Marketing, in International Business, in Entrepreneurship or the No minor option. The No Minor option is for Students who are not seeking any particular minor and who must then complete 15 Credit Hours taken from available courses in any major offered at CBE excluding the student declared major.

University Free Elective Requirements (5 CH)
Students must complete a minimum of 5 credit hours in free university electives

MINOR IN ECONOMICS
The Minor in Economics is offered for students from the College of Business and Economics (CBE).

Minor in Economics (15 CH)
Students must complete a minimum of 12 CH in the minor core requirements and a minimum of 3 CH in the minor electives

Minor in Economics Core Requirements (12CH)
Students seeking a minor in Economics must complete the following courses:
- ECON 211 Intermediate Microeconomics
- ECON 212 Intermediate Macroeconomics
- ECON 214 Monetary Policy
- ECON 453 International Economics

Economics Minor Electives (3 CH)
Students seeking a minor in Economics must complete 3 CH from the following courses:
- ECON 311 Econometrics
- ECON 451 Economic Development
- ECON 452 Industrial Economics
- ECON 454 Economics of Energy
- ECON 472 Managerial Economics
- ECON 475 Contemporary Topics in Economics

Study Plan for Economics
Bachelor of Business Administration in Economics

FIRST YEAR (30 credit hours)

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<th>Course Title</th>
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Total Credit Hours in Semester 15

SECOND YEAR (36 credit hours)

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Total Credit Hours in Semester 18

THIRD YEAR (30 credit hours)

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Total Credit Hours in Semester 15

FOURTH YEAR (29 credit hours)

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Total Credit Hours in Semester 14

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Total Credit Hours in Semester 15
BACHELOR OF BUSINESS ADMINISTRATION IN FINANCE

Objectives
The Finance major aims to prepare students for positions of leadership and responsibility in contemporary organizations. More specifically, the major focuses on the following objectives:
- Finance graduates will be effective communicators
- Finance graduates will be effective in using IT tools
- Finance graduates will be aware of the importance of the social responsibility in the financial environment
- Finance graduates will be effective global citizens
- Finance students will understand how to behave ethically in their professional lives

Major Declaration
In order to declare a major in Finance, students should have completed a minimum of 45 credits and be in good academic standing. Students should obtain approval from their academic advisors, head of department, and associate dean for student affairs.

Learning Outcomes
Upon the successful completion of a Bachelor of Business and Economics majoring in Finance, a student will be able to:
1. Demonstrate effective written communication skills;
2. Demonstrate effective oral communication skills;
3. Identify social responsibilities dimensions of finance decision-making;
4. Evaluate global perspective in finance;
5. Solve finance related problems using technology;
6. Ethical dimension of finance decision making.

Opportunities
The Finance major prepares undergraduate students for careers in business and to pursue graduate studies. Graduates in Finance find employment in government agencies, non-governmental organizations, international agencies, and in the private sector. Our graduates from this discipline can work as decision makers, analysts, and designers of business models and as forecasters.

DEGREE REQUIREMENTS

Major in Finance
Minimum of 125 credit hours are required to complete the Bachelor of Business Administration, major in Finance, including the following:
- A minimum of 33 credit hours in university core curriculum requirement
- A minimum of 42 credit hours in college core requirement.

College Supporting Requirements (6 CH)
Students must complete the following list of courses:
- MATH 119 Business Math I
- LAWC 215 Business Law

Major Requirements (15 CH)
Students must complete the following list of courses:
- FINA 301 Corporate Finance
- FINA 302 Investments
- FINA 303 Financial Markets & Institutions
- FINA 304 International Finance
- FINA 401 Portfolio Management

Major Electives (9 CH)
Students must complete a minimum of 9 credit hours in courses selected from the following list:
- FINA 402 Personal Finance
- FINA 403 Insurance and Risk Management
- FINA 404 Islamic Banking & Finance
- FINA 405 Financial Derivatives
- FINA 406 Management of Financial Intermediaries

Minor or No Minor Requirements (15 CH)
Students with a major in Finance may choose a minor in Management Information Systems, in Economics, in Management, in Marketing, in International Business, in Entrepreneurship or the No minor option. The No Minor option is for Students who are not seeking any particular minor and who must then complete 15 Credit Hours taken from available courses in any major offered at CBE excluding the student declared major.

University Free Elective Requirements (5 CH)
Students must complete a minimum of 5 credit hours in free university electives

MINOR IN FINANCE

The Minor in Finance is offered for students from the College of Business and Economics (CBE).

Minor in Finance (15 CH)
Students must complete a minimum of 12 CH in the minor core requirements and a minimum of 3 CH in the minor electives.

Minor in Finance Core Requirements (12 CH)
Students seeking a minor in Finance must complete the following courses:
- FINA 301 Corporate Finance
- FINA 302 Investment
- FINA 303 Financial Markets & Institutions
- FINA 401 Portfolio Management

Finance Minor Electives (3 CH)
Students seeking a minor in Finance must complete 3 CH from the following courses:
- FINA 304 International Finance
- FINA 402 Personal Finance
- FINA 403 Insurance and Risk Management
- FINA 404 Islamic Banking & Finance
- FINA 405 Financial Derivatives
- FINA 406 Management of Financial Intermediaries

Degree Requirements

College Core Requirements (42 CH)
Students must complete the following list of courses:
- ACCT 110 Financial Accounting
- ACCT 116 Managerial Accounting
- ECON 112 Principles of Macroeconomics
- MATH 119 Business Math I
- MATH 211 Business Math II
- MAKT 101 Principles of Marketing
- ST020 Business Statistics I

Minor in Finance (15 CH)
Students must complete the following list of courses:
- MATH 119 Business Math I
- LAWC 215 Business Law

Major Requirements (3 CH)
Students must complete the following list of courses:
- FINA 301 Corporate Finance
- FINA 302 Investments
- FINA 303 Financial Markets & Institutions
- FINA 304 International Finance
- FINA 401 Portfolio Management

Major Electives (9 CH)
Students must complete a minimum of 9 credit hours in courses selected from the following list:
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- FINA 403 Insurance and Risk Management
- FINA 404 Islamic Banking & Finance
- FINA 405 Financial Derivatives
- FINA 406 Management of Financial Intermediaries

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Minor in Finance (15 CH)
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Minor in Finance Core Requirements (12 CH)
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Major Requirements (15 CH)
Students must complete the following list of courses:
• MAGT 301 Organizational Behavior
• MAGT 302 Human Resource Management
• MAGT 303 Entrepreneurship & Small Business Management
• MAGT 306 International Business
• MAGT 406 Total Quality Management

Major Electives (9 CH)
Students must complete a minimum of 9 credit hours in courses selected from the following list:
• MAGT 305 Comparative Management
• MAGT 401 Quantitative Methods
• MAGT 402 Organization Theory
• MAGT 403 E-Business
• MAGT 404 Project Management

Minor or No Minor Requirements
Students with a major in Management may choose a minor in Accounting, in Management Information Systems, in Finance, in Marketing, in Economics, in International Business or the No minor option.

University Free Elective Requirements (5 CH)
Students must complete a minimum of 5 credit hours in free university electives

MINOR IN MANAGEMENT
The Minor in Management is offered for students from the College of Business and Economics (CBE).

Minor in Management (15 CH)
The Minor in Management is offered for students from the College of Business and Economics (CBE). Students must complete a minimum of 12 CH in the minor core requirements and a minimum of 3 CH in the minor electives.

Minor in Management Core Requirements (12CH)
Students seeking a minor in Management must complete the following courses:
• MAGT 302 Human Resource Management
• MAGT 303 Entrepreneurship & Small Business Management
• MAGT 306 International Business
• MAGT 406 Total Quality Management

Management Minor Electives (3 CH)
Students seeking a minor in Management must complete 3 CH from the following courses:
• MAGT 301 Organizational Behavior
• MAGT 305 Comparative Management
• MAGT 401 Quantitative Methods for Decision Making
• MAGT 402 Organization Theory
• MAGT 403 E-Business
• MAGT 404 Project Management

Study Plan for Management
Bachelor of Business Administration in Management

FIRST YEAR (30 credit hours)

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Total Credit Hours in Semester 15

SECOND YEAR (36 credit hours)

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Total Credit Hours in Semester 15

THIRD YEAR (30 credit hours)

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Total Credit Hours in Semester 15

FOURTH YEAR (29 credit hours)

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<td>MAGT405</td>
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<tr>
<td></td>
<td>MAGT406</td>
<td>Management Elective</td>
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</tbody>
</table>

Total Credit Hours in Semester 15
BACHELOR OF BUSINESS ADMINISTRATION IN MARKETING

Objectives
This major aims to prepare students for positions of leadership and responsibility in contemporary organizations. More specifically, the Marketing major focuses on the following objectives:
- To ensure that our academic programs and courses are relevant to current and emerging practice and reflect industry requirements.
- To attract and retain qualified and talented students.
- To develop our students’ ability to solve marketing related problems and make sound decisions in complex environments.

Major Declaration
In order to declare a major in Marketing, students should have completed a minimum of 45 credits and be in good academic standing. Students should obtain approval from their academic advisors, head of department, and associate dean for student affairs.

Learning Outcomes
Graduates of the Bachelor of Business Administration in Marketing are expected to:
- Demonstrate the ability to understand the global issues related problems and make sound decisions in complex environments.
- Demonstrate the ability to critically analyze marketing problems.
- Demonstrate the ability to understand the sustainability dimensions in making marketing decisions.
- Demonstrate the ability to critically analyze marketing issues and apply functional area knowledge to solve the problems.
- Demonstrate the ability to understand the global issues and their implications for organizations operating in a global economy.

Opportunities
The Marketing major prepares undergraduate students for careers in business and to pursue graduate studies. Applied education and our strong industry links provide students with work opportunities in a variety of organizations. Our graduates are competitive in the job market, and have successfully taken up positions of leadership and responsibility in all areas of business in public and private organizations, at both the local and international level. Examples of future career opportunities include brand managers, marketing consultants, marketing managers and directors, and other general management and leadership positions.

DEGREE REQUIREMENTS

Major in Marketing
Minimum of 125 credit hours are required to complete the Bachelor of Business Administration, major in Marketing, including the following:
- A minimum of 33 credit hours in university core curriculum requirement
- A minimum of 42 credit hours in college core requirement.
- A minimum of 6 credit hours in college supporting requirement.
- A minimum of 15 hours in major requirements and electives
- A minimum of 5 credit hours in University free elective requirement

Core Curriculum Program Requirements (33 CH)
Common package (15 CH)
- ARAB 100 Arabic Language I
- ARAB 200 Arabic Language II
- ENGL 110 English I
- ENGL 111 English II
- DAWA 111 Islamic Culture

Social/Behavioral Sciences package (3CH)
Courses in CCP defined Social/Behavioral Sciences package

Humanities/Fine Arts package (6 CH)
Courses in CCP defined Humanities/Fine Arts package. Students must complete a minimum of 3 Credit Hours from courses listed in the Qatar and Gulf History Sub-package which is part of the Humanities/Fine Arts package.

Natural Science/Mathematics package (3 CH)
- Math 103 Intermediate Algebra

Supplemental College/Program core requirements
package (6 CH)
- ENGL 250 English for Communication I
- ENGL 251 English for Communication II

College Core Requirements (42 CH)
Students must complete the following list of courses:
- ACCT 110 Financial Accounting
- ACCT 116 Managerial Accounting
- ECON 111 Principles of Microeconomics
- ECON 112 Principles of Macroeconomics
- MAGT 101 Principles of Marketing
- MAGT 402 Sales Management
- MAGT 403 E-Marketing
- MAGT 404 Service Marketing
- MAGT 405 Promotion Management
- MAGT 406 Business-to-Business Marketing

Major Electives (9 CH)
Students must complete a minimum of 9 credit hours in courses selected from the following list:
- MAGT 402 Sales Management
- MAGT 403 E-Marketing
- MAGT 404 Service Marketing
- MAGT 405 Promotion Management
- MAGT 406 Business-to-Business Marketing

Minor in Marketing Core Requirements (12CH)
Students seeking a minor in Marketing must complete the following courses:
- MAGT 301 Consumer Behavior
- MAGT 302 Marketing Management
- MAGT 303 International Marketing
- MAGT 401 Marketing Research

Marketing Minor Electives (3 CH)
Students seeking a minor in Marketing must complete 3 CH from the following courses:
- MAGT 304 Strategic Marketing
- MAGT 402 Sales Management
- MAGT 403 E-Marketing
- MAGT 404 Services Marketing
- MAGT 405 Promotion Management
- MAGT 406 Business-to-Business Marketing

MINOR IN MARKETING

The Minor in Marketing is offered for students from the College of Business and Economics (CBE).

Minor in Marketing (15 CH)
The Minor in Marketing is offered for students from the College of Business and Economics (CBE). Students must complete a minimum of 12 CH in the minor core requirements and a minimum of 3 CH in the minor electives

College Core Requirements
- ACCT 110 Financial Accounting
- ACCT 116 Managerial Accounting
- ECON 111 Principles of Microeconomics
- ECON 112 Principles of Macroeconomics
- MAGT 101 Principles of Marketing
- MAGT 402 Sales Management
- MAGT 403 E-Marketing
- MAGT 404 Service Marketing
- MAGT 405 Promotion Management
- MAGT 406 Business-to-Business Marketing

Major Electives
- MAGT 402 Sales Management
- MAGT 403 E-Marketing
- MAGT 404 Service Marketing
- MAGT 405 Promotion Management
- MAGT 406 Business-to-Business Marketing

Minor in Marketing Core Requirements (12CH)
Students seeking a minor in Marketing must complete the following courses:
- MAGT 301 Consumer Behavior
- MAGT 302 Marketing Management
- MAGT 303 International Marketing
- MAGT 401 Marketing Research

Marketing Minor Electives (3 CH)
Students seeking a minor in Marketing must complete 3 CH from the following courses:
- MAGT 304 Strategic Marketing
- MAGT 402 Sales Management
- MAGT 403 E-Marketing
- MAGT 404 Services Marketing
- MAGT 405 Promotion Management
- MAGT 406 Business-to-Business Marketing

MINOR IN MARKETING

The Minor in Marketing is offered for students from the College of Business and Economics (CBE).

Minor in Marketing (15 CH)
The Minor in Marketing is offered for students from the College of Business and Economics (CBE). Students must complete a minimum of 12 CH in the minor core requirements and a minimum of 3 CH in the minor electives

Minor in Marketing Core Requirements (12CH)
Students seeking a minor in Marketing must complete the following courses:
- MAGT 301 Consumer Behavior
- MAGT 302 Marketing Management
- MAGT 303 International Marketing
- MAGT 401 Marketing Research

Marketing Minor Electives (3 CH)
Students seeking a minor in Marketing must complete 3 CH from the following courses:
- MAGT 304 Strategic Marketing
- MAGT 402 Sales Management
- MAGT 403 E-Marketing
- MAGT 404 Services Marketing
- MAGT 405 Promotion Management
- MAGT 406 Business-to-Business Marketing

MINOR IN MARKETING

The Minor in Marketing is offered for students from the College of Business and Economics (CBE).

Minor in Marketing (15 CH)
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Minor in Marketing Core Requirements (12CH)
Students seeking a minor in Marketing must complete the following courses:
- MAGT 301 Consumer Behavior
- MAGT 302 Marketing Management
- MAGT 303 International Marketing
- MAGT 401 Marketing Research

Marketing Minor Electives (3 CH)
Students seeking a minor in Marketing must complete 3 CH from the following courses:
- MAGT 304 Strategic Marketing
- MAGT 402 Sales Management
- MAGT 403 E-Marketing
- MAGT 404 Services Marketing
- MAGT 405 Promotion Management
- MAGT 406 Business-to-Business Marketing
# Study Plan for Marketing

## Bachelor of Business Administration in Marketing

### FIRST YEAR (30 credit hours)

<table>
<thead>
<tr>
<th>Term</th>
<th>Course #</th>
<th>Course Title</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td>Fall</td>
<td>ENGL110</td>
<td>English I</td>
<td>3</td>
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<tr>
<td></td>
<td>ARAB100</td>
<td>Arabic Language I</td>
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<td>Humanities/Fine Arts Package</td>
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<td>DAWAI11</td>
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Total Credit Hours in Semester: 15

<table>
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<th>Term</th>
<th>Course #</th>
<th>Course Title</th>
<th>Credit Hours</th>
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<tr>
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<td>ENGL111</td>
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<td></td>
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<td>Qatar &amp; Gulf History Package</td>
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<td></td>
<td>ARAB200</td>
<td>Arabic Language II</td>
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<td>MATH103</td>
<td>Intermediate Algebra</td>
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<td></td>
<td>MAGT101</td>
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Total Credit Hours in Semester: 15

### SECOND YEAR (36 credit hours)

<table>
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<td></td>
<td>STAT220</td>
<td>Business Stat I</td>
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<td>MATH119</td>
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<td></td>
<td>ECON111</td>
<td>Microeconomics</td>
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<tr>
<td></td>
<td>MAGT101</td>
<td>Principles of Marketing</td>
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<tr>
<td></td>
<td>ACCT110</td>
<td>Financial Accounting</td>
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Total Credit Hours in Semester: 18

<table>
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<tr>
<th>Term</th>
<th>Course #</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>Spring</td>
<td>FINA201</td>
<td>Principles of Finance</td>
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<td>STAT222</td>
<td>Business Stat II</td>
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<td></td>
<td>ACCT116</td>
<td>Managerial Accounting</td>
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<tr>
<td></td>
<td>ECON112</td>
<td>Macroeconomics</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>ENGL251</td>
<td>English for Communica- tion II</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>MATH221</td>
<td>Business Math II</td>
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Total Credit Hours in Semester: 18

### THIRD YEAR (30 credit hours)

<table>
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<td>MISI201</td>
<td>Introduction to MIS</td>
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<tr>
<td></td>
<td>MAGT304</td>
<td>Production and Opera- tions Mgmt</td>
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<tr>
<td></td>
<td>MAKT302</td>
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<td></td>
<td>MAKT301</td>
<td>Consumer Behavior</td>
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<td></td>
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<td>Course from Minor or Free College Elective</td>
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Total Credit Hours in Semester: 15

<table>
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<td>MAKT304</td>
<td>Marketing Strategy</td>
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<td>XXXXNNN</td>
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<td>LAWC</td>
<td>Business Law</td>
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<tr>
<td>MAGT307</td>
<td>Internship in Business</td>
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Total Credit Hours in Semester: 15

### FOURTH YEAR (29 credit hours)

<table>
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<tr>
<td></td>
<td>MAGT401</td>
<td>Marketing Research</td>
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<td>MAGT300</td>
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<tr>
<td></td>
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Total Credit Hours in Semester: 14

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<td></td>
<td>MAGT405</td>
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Total Credit Hours in Semester: 15

### MINOR INTERNATIONAL BUSINESS

The Minor in International Business is offered for students from the College of Business and Economics (CBE). Students must complete the minor core requirements and a minimum of 3 CH in the minor electives.

#### International Business Minor Core Requirements (12 CH)

- FINA 303 International Finance
- MAKT 303 International Marketing
- ECON 453 International Economics

#### International Business Minor Electives (3 CH)

Students must complete a minimum of 3 credit hours in courses selected from the following list:

- ACCT 424 International Accounting
- ECON 214 Monetary Policy
- FINA 303 Financial Markets & Institutions
- MAGT 303 Comparative Management
- MAGT 406 Total Quality Management
- MAGT 401 Marketing Research

### MINOR IN ENTREPRENEURSHIP

The Minor in Entrepreneurship is offered for students from the College of Business and Economics (CBE). Students must complete the minor core requirements.

#### Minor in Entrepreneurship Core Requirements (12 CH)

- MAGT 303 Entrepreneurship
- MAGT 405 Strategic Management
- FINA 410 Financing for Entrepreneurial Ventures

### MINOR IN BUSINESS FOR NON-BUSINESS STUDENTS

This minor is available to all Qatar University students except College of Business and Economics students.

#### Minor in Business for Non-Business Students (24 CH)

Students must complete the minor core requirements.

#### Minor in Business for Non-Business Core Requirements (24 CH)

Students seeking a minor in Business for Non-Business must complete the following courses.

- MAGT 101 Principles of Management
- ECON 111 Principles of Economics
- MATH 119 Business Mathematics I
- STAT 220 Business Statistics I
- FINA 201 Principles of Finance
**DEPARTMENT OF ARCHITECTURE AND URBAN PLANNING**

College of Engineering Building, Room 219 (Women’s Section)  
Phone: (974) 4403-4340 / 4344  
E-mail: architecture-urban@qu.edu.qa  
Website: http://www.qu.edu.qa/engineering/architecture

**Head**  
Ashraf M. Salama

**Faculty**

Professors:  
Ashraf M. Salama, Attilio Petruccioli

Associate Professors:  
Hatem Galal A Ibrahim, Yasser O.M. Mahgoub

Assistant Professors:  
Djamel Boussaa, Fodil Fadli, Rania Khalil, Limol Mathew, Djamel Ouafrani, Hussam Salama, Anna Grichting Solder, M. Salim Ferwati, Shailu Bala Garba

**ABOUT THE DEPARTMENT**

The Department of Architecture and Urban Planning (AUP), the newest academic unit at QU’s College of Engineering, offers innovative undergraduate and graduate programs committed to graduating professionals capable of creating and managing sustainable environments. These are: the Bachelor of Architecture (B.Arch.) five-year undergraduate professional degree, and Master of Urban Planning and Design (MUPD).

Our programs strike a balance between knowledge content and knowledge delivery, while implementing hands-on experiential, active, and outcome-based learning approaches. Our student intake is governed by a rigorous admission process. Students enjoy close interaction with faculty members and educational facilities, studios, and laboratories that reflect up-to-date instructional technology. Our faculty members are responsive educators with research and professional expertise that foster the effective delivery of our programs.
BACHELOR OF ARCHITECTURE

Objectives
The objectives of the program are to integrate knowledge-based and skill-based pedagogies in a balanced manner needed to graduate responsible professional architects. The three main objectives are:

1. Cognitive: Provide high-quality education that prepares students to assume professional roles in architecture, by offering sound knowledge in design theories and applications, building technology, social, cultural, and environmental factors, and the application of information technology.

2. Affective: Prepare students to work effectively in multi-disciplinary teams within the building industry by providing knowledge in built environment-related disciplines relevant to ethical responsibilities and professional obligations in architecture.

3. Psychomotor: Prepare students to acquire and develop skills for creative problem-solving and lifelong learning, includingthinking and assessment of existing environments, active and experiential learning for developing design concepts and solutions, and communication and presentation of those solutions to peers, clients, decision makers, and the public.

Major Declaration
In order to declare a major in Architecture, students must satisfy the College of Engineering admission requirements and go through the specialization phase; students are assigned to programs based on the students’ choices and according to their score in the general secondary education certificate or its equivalent, and the capacity of the programs within the college. An aptitude test and a personal interview are primary requirements for declaring a major in architecture. All students must declare their major and join the program before completing 36 credit hours.

Additional Requirements
In addition to the requirement of completing a program of 160 credit hours, including the senior graduation design project, students must go through compulsory practical training in the summers of the last two years of the program. Practical training does not count in the overall credit hours but is mandatory. It requires a minimum of 12 weeks of architectural training in design consulting firms, construction companies, architectural engineering consultancies, or relevant government agencies.

Learning Outcomes
Under the general theme of sustainable built environments, the program learning outcomes are as follows:

- Design: Ability to conceptualize and coordinate designs, addressing social, cultural, environmental, and technological aspects of architecture.

- People: Able to recognize the dialectic relationship between people and the built environment in the GCC/ Arab region.

- CAD: Ability to apply and integrate computer technology in design processes and products.

- Technology: Ability to utilize cutting-edge building technology in design.

- Communication: Ability to apply visual and verbal communication skills at various stages of architectural design and project delivery processes.

- Critical Thinking: Ability to critically analyze building designs and conduct post-occupancy evaluation studies.

- Research: Ability to employ architectural research methods, including data collection and analysis to assess and propose improvements in existing built environments.

- Collaboration: Ability to work collaboratively with teams of architects and various interdisciplinary design teams involved in the building industry.

- Equity: Ability to recognize diversity of needs, values, behavioral norms, social patterns as they relate to the creation of the built environment.

- The preceding learning outcomes are directly related to the course contents. However, they complement additional Student Performance Criteria (SPCs) mandated by the intended accreditation agency in architecture; the National Architectural Accrediting Board (NAAB) of Architecture Schools in North America.

Opportunities
Graduates of the Architecture program enjoy multiple employment opportunities as architects working in the fields of design and construction of architectural and urban projects. They have opportunities in government agencies, design firms, and consulting houses, real estate development companies, in addition to possibilities of establishing their own design firms. Additionally, graduates of the program may find opportunities to pursue post-graduate studies in architecture, urban design planning, and built environment-related disciplines, and eventually pursue advanced careers in architecture and built environment-related realm.

DEGREE REQUIREMENTS

Major in Architecture
A minimum of 160 credit hours are required to complete the major in Architecture, including the following:

- A minimum of 33 credit hours in Core Curriculum Requirements.
- A minimum of 7 credit hours in College Requirements.
- A minimum of 6 credit hours in Graphic Communication and Architectural Design Studios.
- A minimum of 15 credit hours in History and Theory.
- A minimum of 15 credit hours in Building Construction, Services, and Technology.
- A minimum of 16 credit hours in Civil Engineering Related courses.
- A minimum of 15 CH in Major Electives.
- A Compulsory non-credited summer practical training (12 weeks over 2 semesters)

Core Curriculum Requirements (33 CH)
Students must complete 33 CH from the CCP packages as detailed below

Common package (15 CH)
- ARAB 100 Arabic Language I
- ARAB 200 Arabic Language II
- ENGL 202 English Language I Post Foundation
- ENGL 203 English Language II Post Foundation
- DAWA 111 Islamic Culture

Social/Behavioral Sciences package (3 CH)
Any course in the CCP defines Social and Behavioral Sciences package

Humanities/Fine Arts package (6 CH)
Students must complete a minimum of 6 Credit Hours from the CCP defined Humanities and Fine Arts package with a minimum of 3 credit hours from courses listed in the Qatar and Gulf History Sub-package, which is part of the Humanities/Fine Arts package.

Natural Science/Mathematics package (3 CH)
- MATH 101 Calculus I

General Knowledge package (3 CH)
Any course in the CCP defines general knowledge package

General Skills package (3 CH)
Any course in the CCP defines general skills package

College Requirements (7 CH)
- MATH 102 Calculus II
- PHYS 191 General Physics for Engineering I
- PHYS 192 General Physics for Engineering Laboratory I

College Electives (6CH)
Students must complete a minimum of 6 credit hours in courses selected from the following list:
- GENG 100 Computer Programming
- GENG 107 Engineering Skills and Ethics
- GENG 360 Engineering Economics
- IENG 330 Operations Research
- MECH 485 Engineering Management

Major Requirements (99CH)
Students must complete 99 credit hours from the sub-packages A,B,C, and D as detailed below:

A) Graphic Communication and Architectural Design Studios (50 CH)
- ARCT 111 Graphic Communication I
- ARCT 112 Introduction to Architecture and Allied Arts
- ARCT 210 Perspective, Shade and Shadow
- ARCT 211 Architectural Design Studio I
- ARCT 212 Architectural Design Studio II
- ARCT 310 Architectural Design Studio III
- ARCT 311 Architectural Design Studio IV
- ARCT 410 Architectural Design Studio V
- ARCT 411 Architectural Design Studio VI
- ARCT 510 Comprehensive Design Studio
- ARCT 511 Senior Project Preparation and Programming

B) History and Theory (15 CH)
- ARCT 220 Climate and Architecture
- ARCT 221 History and Theory of Architecture I-Early and Western Civilizations
- ARCT 222 History and Theory of Architecture II-Islamic/ Arab Civilizations
- ARCT 320 Design Methods and Theories
- ARCT 422 Research Methods in Architecture

C) Building Construction, Services, and Technology (18 CH)
- ARCT 230 Materials and Methods of Building Construction
- ARCT 330 Materials and methods of Building Construction I
- ARCT 331 Environmental Control Systems I (Acoustics and Lighting)
- ARCT 332 Environmental Control Systems II (Sanitary and HVAC)
- ARCT 333 Construction Drawing and Detailing
- ARCT 531 Ethics and Professional Practice

D) Civil Engineering Related Courses (16 CH)
- ARCT 240 Thermodynamics
- ARCT 241 Theory of Structures II
- ARCT 242 Surveying for Architects
- ARCT 340 Structures and Architectural Form I (Concrete Structures)
- ARCT 341: Structures and Architectural Form II (Steel and Shell Structures)
- ARCT 530 Construction and Project Management
E) Practical Training Courses - Mandatory (0 CH)
• ARCT 400 Practical Training I
• ARCT 500 Practical Training II

F) Major Electives (15 CH)
Students must complete a minimum of 15 credit hours in elective courses selected from the following list:
• ARCT 100 Independent Study
• ARCT 350 Arts in Architecture
• ARCT 351 Creativity and Innovation
• ARCT 420 Environment-Behavior Studies
• ARCT 421 Introduction to Urban Design and Planning
• ARCT 430 Contract Documents
• ARCT 431 Cost Estimation, Valuation and Qualification
• ARCT 450 Interior Design Workshop
• ARCT 451 Computer Applications in Architecture (Advanced)
• ARCT 452 Contemporary Architecture in the Arab World
• ARCT 453 Criticism in Architecture
• ARCT 520 Landscape Architecture
• ARCT 550 Computer Applications in Urban Planning and G.I.S
• ARCT 551 Historic Preservation and Conservation

Study Plan:
Bachelor of Architecture

FIRST YEAR (31 credit hours)

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<th>Course Title</th>
<th>Credit Hours</th>
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<tr>
<td>Fall</td>
<td>ENGL 202</td>
<td>English Language I Post Foundation</td>
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<tr>
<td></td>
<td>DAWA 111</td>
<td>Islamic Culture</td>
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<td>MATH 101</td>
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<tr>
<td></td>
<td>ARCT 120</td>
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<tr>
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<td>ENGL 203</td>
<td>English Language II Post Foundation</td>
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<tr>
<td></td>
<td>ARAB 100</td>
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<td></td>
<td>PHYS 191</td>
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SECOND YEAR (32 credit hours)

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<td>History and Theory of Architecture II (Islamic/Arab Civilizations)</td>
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<td>ARCT 341</td>
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THIRD YEAR (36 credit hours)

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FOURTH YEAR (34 credit hours)

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FIFTH YEAR (27 credit hours)

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<td>ARCT 512</td>
<td>Senior Project</td>
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<td>ARCT 531</td>
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Graduates will contribute effectively to the civil region, and beyond. That contribute to the development of the country, the development engineering disciplines in the local labor market. The department also provides the State of Qatar with the coming 2022. The department currently offers one program - civil engineering, which focuses on developing the knowledge and safety, manufacturability, and sustainability. An ability to function on multi-disciplinary teams. An ability to identify, formulate, and solve civil engineering problems. An understanding of professional and ethical responsibility. An ability to communicate effectively. The broad education necessary to understand the impact of civil engineering solutions in a global, economic, environmental, and societal context. A recognition of the need for, and the ability to engage in lifelong learning. A knowledge of contemporary issues. An ability to use the techniques, skills, and modern engineering tools necessary for engineering practice.

Opportunities
The rapid development currently taking place in Qatar has engineering and technology as its main backbone. Civil engineers play a significant role as specialists in building infrastructure, and therefore have an important share in this development. By offering the sole Civil Engineering Program in Qatar, the department presents a leading contribution in all activities of the unprecedented infrastructures development in Qatar, through providing high-quality graduates and consultation services.

Degree Requirements
Major in Civil Engineering
A minimum of 131 credit hours are required to complete the major in Civil Engineering, including the following:
• A minimum of 33 credit hours in core curriculum requirements.
• A minimum of 27 credit hours in college requirements.
• A minimum of 54 credit hours in major requirements.
• A minimum of 12 credit hours in humanities/fine arts electives.
• A minimum of 3 credit hours in additional science electives.
• A minimum of 2 credit hours in free electives.

Core Curriculum Requirements (33 CH)
Common package (12 CH)
• ARAB 101 Arabic Language 1
• ENGL 200 English Language I Post Foundation
• ENGL 203 English Language II Post Foundation
• DAWA 111 Islamic Culture

Social/Behavioral Sciences package (3CH) Any Course in CCP defined social package

Humanities /Fine Arts package (3 CH) Students must complete a minimum of 3 Credit Hours from courses listed in the Qatar and Gulf History Sub-package, which is part of the Humanities/Fine Arts package.

Natural Science/Mathematics package (3 CH)
• MATH 101 Calculus I

Supplemental Course / Program core requirements package (12 CH)
• PHYS 101 General Physics for Engineering I
• PHYS 192 Experimental General Physics for Engineering I
• PHYS 193 General Physics for Engineering II
• PHYS 194 Experimental General Physics for Engineering II
• CHEM 101 General Chemistry I
• CHEM 103 Experimental General Chemistry I

College Requirements (27 CH)
• MATH 102 Calculus II
• MATH 211 Calculus III
• MATH 217 Mathematics for Engineers
• GENG 106 Computer Programming
• GENG 107 Engineering Skills and Ethics
• GENG 200 Probability and Statistics for Engineers
• GENG 300 Numerical Methods
• GENG 360 Engineering Economics
• GENG 111 Engineering Graphics

Major Requirements (54 CH)
• CVEN 210 Properties and Testing of Materials
• CVEN 212 Fluid Mechanics
• CVEN 213 Statics
• CVEN 214 Strength of Materials
• CVEN 220 Analysis of Structures
• CVEN 230 Geotechnical Engineering
• CVEN 270 Surveying for Construction
• CVEN 320 Design of Reinforced Concrete Members
• CVEN 321 Analysis of Indeterminate Structures
• CVEN 330 Foundation Engineering I
• CVEN 340 Analysis and Design of Hydraulic Systems
• CVEN 350 Environmental Engineering
• CVEN 360 Highway Engineering
• CVEN 380 Construction Engineering
• CVEN 381 Contracts, Specifications, and Local Regulations
• CVEN 399 Practical Training
• CVEN 401 Civil Engineering Design Project I
• CVEN 402 Civil Engineering Design Project II
• CVEN 420 Design of Steel Structures

Major Technical Electives (12 CH) Students must complete a minimum of 12 credit hours in elective courses selected from the following list:
• CVEN 422 Design of Reinforced Concrete Structures
• CVEN 423 Selected Topics in Structural Design
• CVEN 424 Structural Materials Analysis
• CVEN 430 Foundation Engineering II
• CVEN 431 Selected Topics in Geotechnical Engineering
• CVEN 432 Selected Topics in Water Resources
• CVEN 453 Selected Topics in Environmental Engineering
• CVEN 460 Pavement Materials and Design
• CVEN 461 Traffic Engineering
• CVEN 462 Selected Topics in Transportation Engineering
• CVEN 481 Project Planning and Scheduling
• CVEN 482 Selected Topics in Construction Engineering and Management
Major Additional Science Electives (3 CH)
Students must complete a minimum of 3 credit hours in courses selected from the following list:
- BIOL 101 Biology I
- GEOL 101 Principal of General Geology
- MARS 101 Introduction to Marine Science

Free Electives (2 CH)
Students must complete a minimum of 2 credit hours from courses outside the College offering.

Study Plan: Bachelor of Science in Civil Engineering

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<th>FIRST YEAR (32 credit hours)</th>
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*Student must complete a minimum of 3 credit hours from Social/Behavioral Sciences package and a minimum of 3 credit hours from Humanities/Fine Arts package.
Faculty members through UREP projects. Enjoy a remarkable support from the research-active QNRF under the NPRP and UREP schemes, and industry, membrane systems and materials engineering. The level of natural gas, hydrocarbons processing, desalination, treatment, carbon management, soil bioremediation, expertise and personal development in the areas of water These priorities are compatible with faculty members’ priorities of the state of Qatar in terms of research focus. The research priorities of the Department of Chemical Engineering are aligned with the national relevance. The research priorities of the Department in North America to qualify as faculty members. The Department has 14 highly qualified faculty members and 7 teaching assistants, 2 of whom pursue graduate studies in Chemical Engineering. Assistant Professors: Mohamed Al-Marri, Fadwa ELJack, Mohammad Saleh, Mohammad Aman Ullah, Anand Kumar, Rahul Bhosale.

ABOUT THE DEPARTMENT
The Department of Chemical Engineering at Qatar University has 14 highly qualified faculty members and 7 teaching assistants, 2 of whom pursue graduate studies in Chemical Engineering. The Department enjoys a remarkable working relationship with local industry. The Department sponsors the chemical engineering program in several ways, including professorial chair positions, student internships, guest lectures, industrially-based graduate projects, and process plant design award contest. The Department of Chemical Engineering has been particularly successful in attracting research funding from Qatar National research fund and from local industry to build an impressive portfolio of research project of national relevance. The Chemical Engineering Department of Qatar University offers high quality programs. The faculty members are highly dedicated, experienced and possess excellent professional relationships with local industries. The College offers a wide range of career opportunities and, graduate programs. Graduates can also pursue higher studies in Chemical Engineering or related fields. DEGREE REQUIREMENTS
Major in Chemical Engineering A minimum of 131 credit hours are required to complete the major in Chemical Engineering, including the following: A minimum of 33 credit hours in core curriculum requirements. A minimum of 27 credit hours of core college requirements. A minimum of 57 credit hours of major requirements. A minimum of 12 credit hours of major electives. A minimum of 2 credit hours in free electives.

Core Curriculum Requirements (33 CH) Course Subpackage (12 CH) • ARAB 100 Arabic Language I • ENGL 202 English Language I-Post Foundation • ENGL 203 English Language II-Post Foundation • DAWA 111 Islamic Culture Social/Behavioral Sciences package (3 CH) Any Course in CCP defined social package Humanities /Fine Arts package (3 CH) Students must complete a minimum of 3 Credit Hours from courses listed in the Qatar and Gulf History Sub-package, which is part of the Humanities/Fine Arts package. Natural Science/Mathematics package (3 CH) • MATH 101 Calculus I Supplemental College / Program core requirements package (12 CH) • PHYS 101 General Physics for Engineering I • PHYS 102 General Physics for Engineering II • CHEM 101 General Chemistry I • CHEM 103 General Chemistry I College Requirements (27 CH) • MATH 102 Calculus II • MATH 211 Calculus III • MATH 212 Mathematics for Engineers • GENG 106 Computer Programming • GENG 107 Engineering Skills and Ethics • GENG 108 Statistics and Data Analysis for Engineers • GENG 300 Numerical Methods • GENG 360 Engineering Economics • GENG 231 Materials Science Major Requirements (57 CH) • CHEM 102 General Chemistry II • CHEM 104 Experimental General Chemistry II • CHEM 209 Fundamentals of Organic Chemistry • CHEM 241 Physical Chemistry I • CHEM 242 Experimental Physical Chemistry I • CHEM 341 Physical Chemistry II • CHEM 201 Introduction to Chemical Engineering • CHEM 202 Introduction to Chemical Engineering II • CHEM 212 Chemical Engineering Thermodynamics I • CHEM 213 Fluid Mechanics • CHEM 311 Heat Transfer • CHEM 312 Chemical Engineering Thermodynamics II • CHEM 313 Mass Transfer I • CHEM 314 Chemical Reaction Engineering • CHEM 315 Mass Transfer II • CHEM 324 Chemical Engineering Laboratory I • CHEM 325 Chemical Engineering Laboratory II • CHEM 399 Practical Training • CHEM 415 Computer Methods in Chemical Engineering • CHEM 421 Plant Design I • CHEM 422 Plant Design II • CHEM 423 Process Control • CHEM 426 Chemical Engineering Laboratory III Major Electives (12 CH) Students must complete a minimum of 12 credit hours in elective courses selected from the following list: • CHEM 413 Process Modeling & Simulation • CHEM 431 Petroleum Processing Process • CHEM 433 Petrochemical Technology • CHEM 435 Polymer Engineering • CHEM 444 Aluminum Production Technology • CHEM 445 Desalination • CHEM 451 Introduction to Gas Engineering • CHEM 453 Natural Gas Treatment • CHEM 462 Pollution Control • CHEM 463 Water Processes • CHEM 466 Special Topics in Chemical Engineering I • CHEM 467 Special Topics in Chemical Engineering II • CHEM 470 Fund of Petroleum Engineering • CHEM 486 Corrosion Engineering • CHEM 497 Independent Study Free Electives (2 CH) Students must complete a minimum of 2 credit hours from courses outside the College offering.
### Study Plan:
**Bachelor of Science in Chemical Engineering**

#### FIRST YEAR (33 credit hours)

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#### SECOND YEAR (35 credit hours)

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<td></td>
<td>CHME 213</td>
<td>Fluid Mechanics</td>
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#### THIRD YEAR (35 credit hours)

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<tr>
<td>Fall</td>
<td>MATH 217</td>
<td>Mathematics for Engineers</td>
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<td></td>
<td>GENG 200</td>
<td>Probability and Statistics for Engineers</td>
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<td>CHME 311</td>
<td>Heat Transfer</td>
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<td>CHME 312</td>
<td>Chemical Engineering Thermodynamics II</td>
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<td>CHME 313</td>
<td>Mass Transfer I</td>
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<td></td>
<td>CHME 324</td>
<td>Chemical Engineering Laboratory I</td>
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<td>GENG 231</td>
<td>Materials Science</td>
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<td>GENG 260</td>
<td>Engineering Economics</td>
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<td>CHME 314</td>
<td>Chemical Reaction Engineering</td>
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<td>CHME 315</td>
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<td>CHME 325</td>
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<td>DAWA 111</td>
<td>Islamic Culture</td>
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<td>Summer</td>
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#### FOURTH YEAR (28 credit hours)

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<td>CHME 421</td>
<td>Plant Design I</td>
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<td>CHME 423</td>
<td>Process Control</td>
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<td>CHME 415</td>
<td>Computer Methods in Chemical Engineering</td>
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<td>Major Elective I</td>
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<td>Major Elective II</td>
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<td>Total Credit Hours in Semester</td>
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<tr>
<td>Spring</td>
<td>CHME 422</td>
<td>Plant Design II</td>
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<td>CHME 426</td>
<td>Chemical Engineering Laboratory III</td>
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*Student must complete a minimum of 3 credit hours from Social/Behavioral Sciences package and a minimum of 3 credit hours from Humanities/Fine Arts package*
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

College of Engineering - Corridor E, Room E103 (Men’s Section) Phone: (974) 4403/4240 /4244 E-mail: cs@qu.edu.qa Website: http://www.qu.edu.qa/engineering/computer

Head
Sebit Foufou

Faculty
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Associate Professors: Mohammad Jaleel, Mohammed Samaka, Osama A. Shata, Uvais Qidwai, Nasir Rajoop
Assistant Professors: Somaya Ali Al-Ali, Mohamed Al-Meer, Adel Cherif, Tarek Elfouly, Abdelkarim Erradi, Rachid Hadjidj, Osama Halabi, Loay Ismail, Khalid Khan, Amr Mohamed, Ryan Riley, Khaled Shaban, Tamer Elsayed, Aiman Erbad, Mashael Al-Sabah, Noora Fetais

ABOUT THE DEPARTMENT

Computer Science is that branch of science that deals with the theory and methods of processing information in digital computers, the design of computer software, and the applications of computer systems. Graduates of the program enjoy attractive career opportunities in Qatar and worldwide. The Computer Science Program at Qatar University was first offered in 1989, as the first computer-related major in the country. The Computer Science Program at Qatar University was first offered in 2002. It is a four-year program offered to male and female students.

Although fairly new at Qatar University, the program is one of the most competitive programs at the College of Engineering. Graduates of this program are sought by the industry in Qatar with attractive positions and interesting career opportunities. Computer Engineering students engage in a broad range of research and learning activities with an emphasis on those that are highly relevant to Qatar and the region. This educational experience is culminated by a graduation project where teams are formed to build a complete hardware and software system resembling an industrial unit for a specific real-world application.

BACHELOR OF SCIENCE IN COMPUTER ENGINEERING

Objectives
The objective of the major is to graduate students who will be able to achieve most of the following:
1. Establish successful computer or engineering careers in industry and the government that will advance the economic development of the country, the region, and beyond.
2. Serve industry and government by contributing professionally to help solve interdisciplinary, open-ended, and optimization problems.
3. Contribute effectively to the computing or engineering profession by fostering effective interaction, ethical practices, and communication skills, while pursuing further education and lifelong learning.
4. Qualified graduates will be prepared to pursue advanced studies if they so desire.

Major Declaration
- Students are admitted competitively and must satisfy the minimum high school percentage requirement for the major in the semester of admission. In addition, applicants must either successfully complete all requirements of the Foundation Program or satisfy the University’s competency requirements.
- Students who have not obtained the required admission average in the General Secondary school Certificate or its equivalent may be admitted when the Program’s capacity allows more intake, provided that they achieve a score of 500 or higher on the TOEFL Test, as well as achieving 550 or higher in the Mathematics Part of the International SAT I Test and score an average of 75% or higher in math and science courses.
- Students may be asked to pass an interview before they get admitted in the major.

Learning Outcomes
a. An ability to apply knowledge of mathematics, science, and engineering.

DEGREE REQUIREMENTS

Major in Computer Engineering
A minimum of 128 credit hours are required to complete the major in Computer Engineering, including the following:
- A minimum of 33 credit hours in core curriculum requirements.
- A minimum of 24 credit hours in college requirements.
- A minimum of 60 credit hours in major requirements.
- A minimum of 9 credit hours in major electives.
- A minimum of 2 credit hours in free electives.

Core Curriculum Requirements (33 CH)

Common package (12 CH)
- ARAB 100 Arabic Language I
- ENGL 202 English Language I Post Foundation
- ENGL 203 English Language II Post Foundation
- DAWA 111 Islamic Culture
- PHYS 191 General Physics for Engineering I
- PHYS 192 Experimental General Physics for Engineering II
- PHYS 193 General Physics for Engineering II
- PHYS 194 Experimental General Physics for Engineering II
- CHEM 101 General Chemistry I
- CHEM 103 Experimental General Chemistry I

Students must complete a minimum of 3 Credit Hours from courses listed in the Qatar and Gulf History Sub-package, which is part of the Humanities/Fine Arts package.

Social/Behavioral Sciences package (3 CH)
Any Course in Core Curriculum Program defined social package

Humanities/Fine Arts package (3 CH)

Students must complete a minimum of 3 Credit Hours from courses listed in the Qatar and Gulf History Sub-package, which is part of the Humanities/Fine Arts package.

Natural Science/Mathematics package (3 CH)
MATH 101 Calculus I

Supplemental College / Program core requirements package (12 CH)
- PHYS 191 General Physics for Engineering I
- PHYS 192 Experimental General Physics for Engineering II
- PHYS 193 General Physics for Engineering II
- PHYS 194 Experimental General Physics for Engineering II
- CHEM 101 General Chemistry I
- CHEM 103 Experimental General Chemistry I

College Requirements (24 CH)
- MATH 101 Calculus II
- MATH 211 Calculus III
- MATH 217 Mathematics for Engineers
- GENG 107 Engineering Skills and Ethics
- GENG 200 Probability and Statistics for Engineers
- GENG 300 Numerical Methods
- GENG 360 Engineering Economics
- ELEC 201 Electric Circuits

Major Requirements (60 CH)
- ELEC 231 Fundamentals of Electronics
- ELEC 234 Signals and Systems
- CMPS 152 Programming Concepts
- CMPS 252 Object-Oriented Programming Laboratory
- CMPS 254 Microprocessors and Embedded Systems
- CMPS 256 Computer Architecture and Organization I
- CMPS 303 Data Structures
- CMPS 363 Computer Architecture and Organization II
- CMPS 364 Microprocessors and Embedded Systems
- CMPS 365 Microprocessors based Design Laboratory
- CMPS 370 Computer Engineering Practicum
- CMPS 405 Operating Systems Laboratory
- CMPS 411 Software Engineering
THIRD YEAR (34 credit hours)

Students must complete a minimum of 2 credit hours from Free Electives (2 CH)

- CMPE 455 Data Communication and Computer Networks I
- CMPE 456 Data Communication and Computer Networks I Laboratory
- CMPE 457 Data Communication and Computer Networks II
- CMPE 462 Computer Interfacing
- CMPE 476 Digital Signal Processing
- CMPE 478 Digital Signal Processing Laboratory
- CMPE 498 Design Project I
- CMPE 499 Design Project II

Major Electives (9 CH)

Students must complete a minimum of 9 credit hours in major elective courses by taking a maximum of 3 credit hours in the Common Electives sub-package, and the remaining required credit hours from the CE Electives sub-package:

Common Electives Sub-package (0-3 CH)

Students can take up to 3 credit hours from the following list of courses:
- CMPS 360 Computer Graphics
- CMPS 454 Wireless Networks and Applications
- CMPS 455 Parallel and Distributed Systems
- CMPS 476 Artificial Intelligence
- CMPE 480 Computer Vision
- CMPE 482 Multimedia Networks
- CMPS 485 Computer Security

CE Electives Sub-package (6-9 CH)

Students must complete a minimum of 6 to 9 CH from the following courses:
- CMPS 351 Fundamentals of Database Systems
- CMPE 399 Practical Training
- CMPE 470 Modern Computer Organization
- CMPE 471 Selected Topics in Computer Engineering
- CMPE 475 Performance Evaluation
- CMPE 474 Artificial Neural Networks
- CMPE 481 Modeling and Simulation of Digital Systems
- CMPE 483 Introduction to Robotics
- CMPE 485 Fundamentals of Digital Image Processing

Free Electives (2 CH)

Students must complete a minimum of 2 credit hours from courses offered outside the College.

Study Plan: Bachelor of Science in Computer Engineering

### FIRST YEAR (34 credit hours)

<table>
<thead>
<tr>
<th>Term</th>
<th>Course #</th>
<th>Course Title</th>
<th>Credit Hours</th>
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</thead>
<tbody>
<tr>
<td>Fall</td>
<td>ENGL 202</td>
<td>English Language I Post Foundation</td>
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<td>MATH 101</td>
<td>Calculus I</td>
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<tr>
<td></td>
<td>CHEM 101</td>
<td>General Chemistry I</td>
<td>3</td>
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<tr>
<td></td>
<td>CHEM 103</td>
<td>Experimental General Chemistry I</td>
<td>1</td>
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<tr>
<td></td>
<td>CMPS 151</td>
<td>Programming Concepts</td>
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<td>CMPS 152</td>
<td>Programming Concepts Laboratory</td>
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<td>CMPS 107</td>
<td>Engineering Skills and Ethics</td>
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<tr>
<td>Spring</td>
<td>ENGL 203</td>
<td>English Language II Post Foundation</td>
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<td>MATH 102</td>
<td>Calculus II</td>
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<td></td>
<td>PHYS 191</td>
<td>General Physics for Engineering I</td>
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<td>PHYS 192</td>
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<td>CMPS 251</td>
<td>Object-Oriented Programming</td>
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<td>Object-Oriented Programming Laboratory</td>
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<td>CMPS 205</td>
<td>Discrete Structures for Computing</td>
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### SECOND YEAR (36 credit hours)

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<td>CMPE 261</td>
<td>Digital Logic Design</td>
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<td>Digital Logic Design Laboratory</td>
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<td>PHYS 193</td>
<td>General Physics for Engineering II</td>
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<td>PHYS 194</td>
<td>Experimental General Physics for Engineering II</td>
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<td>Calculus III</td>
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<td>ARAB 100</td>
<td>Arabic Language I</td>
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<td>ELEC 201</td>
<td>Electric Circuits</td>
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<td>ELEC 351</td>
<td>Signals and Systems</td>
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<td>CMPS 231</td>
<td>Fundamentals of Electronics</td>
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<td>GENG 200</td>
<td>Probability and Statistics for Engineers</td>
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<td>CMPE 263</td>
<td>Computer Architecture and Organization I</td>
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### THIRD YEAR (34 credit hours)

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<td>CMPE 455</td>
<td>Data Communication and Computer Networks I</td>
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<td>CMPE 456</td>
<td>Data Communication and Computer Networks I Laboratory</td>
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<td>CMPE 363</td>
<td>Computer Architecture and Organization II</td>
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<td>CMPS 405</td>
<td>Operating Systems</td>
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<td>CMPS 406</td>
<td>Operating Systems Laboratory</td>
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<td>MATH 217</td>
<td>Mathematics for Engineers</td>
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<td>CMPE 370</td>
<td>Computer Engineering Practicum</td>
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<tr>
<td>Spring</td>
<td>CMPE 457</td>
<td>Data Communication and Computer Networks II</td>
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<td>CMPE 364</td>
<td>Microprocessor Based Design</td>
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<td>CMPE 365</td>
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<td>GENG 360</td>
<td>Engineering Economics</td>
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<td>CMPE 478</td>
<td>Digital Signal Processing</td>
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<td>CMPE 479</td>
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### FOURTH YEAR (28 credit hours)

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<td>CMPE 498</td>
<td>Design Project I</td>
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<td>GENG 300</td>
<td>Numerical Methods</td>
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<td>Design Project II</td>
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</tbody>
</table>

*Student must complete a minimum of 3 credit hours from Social/Behavioral Sciences package and a minimum of 3 credit hours from Humanities / Fine Arts package
**BACHELOR OF SCIENCE IN COMPUTER SCIENCE**

**Objectives**
Graduates of the Computer Science major shall achieve most of the following:

- Establish successful computing careers in business, industry, and/or government that will contribute to the economic development of the country, the region, and beyond.
- Apply analytical, design, and implementation skills to formulate and to innovatively solve computing, business, and interdisciplinary problems arising in science, technology, and society.
- Contribute effectively to society and the computing profession by fostering effective interaction, ethical, and other social issues and responsibilities.
- Qualify graduates will be prepared to pursue advanced studies if they so desire.

**Major Declaration**

- Students are admitted competitively and must satisfy the minimum high school percentage requirement for the major in the semester of admission. In addition, applicants must either successfully complete all requirements of the Foundation Program, or satisfy the University’s competency requirements.
- Students who have not obtained the required admission average in the General Secondary School Certificate or its equivalent may be admitted when the capacity allows and must provide evidence that they achieve a score of 500 or higher in the TOEFL Test as well as achieving 550 or higher in the Mathematics Part of the International SAT I Test and score an average of 75% or higher in math and science courses.

**Learning Outcomes**
By the time of graduation, students will be able to:

1. **An ability to use current techniques, skills, and tools necessary for computing practice.**
2. **An ability to apply mathematical foundations, algorithmic principles, and computer science theory in the modeling and design of computer-based systems in a way that demonstrates comprehension of the tradeoffs involved in design choices.**
3. **An ability to apply design and development principles in the construction of software systems of varying complexity.**

**Opportunities**

Computer Science is a very versatile field. Therefore, the program gives graduates a wide range of distinguished career opportunities. Computer Science graduates are sought after by almost all kinds of industries, including gas and oil, telecommunications, media, security, medicine, and many others within Qatar, the region, and beyond.

**Examples of job titles for computer science include**
- Software Engineer, System Administrator, Application Developer, System Programmer, System Analyst, IT Security Specialist, Network Administrator, Database Administrator, IT Consultant, Multimedia Specialist and Web System Manager.

**DEGREE REQUIREMENTS**

**Major in Computer Science**
A minimum of 120 credit hours are required to complete the major in Computer Science, including the following:

- A minimum of 33 credit hours in Core Curriculum requirements.
- A minimum of 21 credit hours of college requirements.
- A minimum of 46 credit hours in major requirements.
- A minimum of 15 credit hours of major electives.
- A minimum of 5 credit hours of additional compulsory courses.

**Core Curriculum Requirements (33 CH)**

<p>| Common package (15 CH) | **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| **| ** |</p>
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<th>Study Plan: Bachelor of Science in Computer Science</th>
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<tr>
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<tr>
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<td>CMPS 311</td>
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<td>MATH 231</td>
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<td>CMPS 200</td>
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<td>CMPE 263</td>
<td>Computer Architecture and Organization</td>
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<p>| <strong>THIRD YEAR (32 credit hours)</strong> |</p>
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<p>| <strong>FOURTH YEAR (24 credit hours)</strong> |</p>
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<td>CMPS 307</td>
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<td>CMPS 499</td>
<td>Senior Project II</td>
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<td>MAGT 101</td>
<td>Principles of Management</td>
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<td><strong>Total Credit Hours in Semester</strong></td>
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Student must complete:
- A minimum of 3 credit hours from Social/Behavioral Sciences package and,
- A minimum of 2 credit hours in any course listed in the CCP defined Qatar and Gulf History sub-package and,
- A minimum of 3 CH in any Course in CCP defined Humanities/Fine arts package other than courses in the Qatar and Gulf History sub-package and,
- Minimum of 3 credit hours from Natural Science/Mathematics package
DEPARTMENT OF ELECTRICAL ENGINEERING

College of Engineering - Corridor F, Room F102 (Men’s Section)
Phone: (974) 4403-4200 / 4204
E-mail: electrical@qu.edu.qa
Website: http://www.qu.edu.qa/engineering/electrical/

Head
Lazhar Ben-Brahim

Faculty

Professors: Mohamede Badenamar, Lazhar Ben-Brahim, Boualem Boashash, Adel Gasti

Associate Professors: Rashid Al-Ammari, Khalid Elitith, Rihda Hamila, Farih Touati, Ahmed Massoud, Afif Iqbal, Mazen Hasna, Nizar Zorba.

Assistant Professors: Nasser Al-Emadi, Mohammed Al-Hiti, Mohammed Al-Naimi, Tamer Khatib, Fadi Jaber, Nader Meskin, Faycal Benaisali.

ABOUT THE DEPARTMENT

The Bachelor of Science degree in electrical engineering is a four-year program offered to male and female students. Through its solid structure, the program strikes a balance between theory, practical knowledge, and hardware and software skills. Also, the program fosters a broad awareness of social, cultural, and ethical issues together with a good understanding of the role of engineering in the community. In addition to the core electrical engineering courses, students are allowed to choose from a large number of major elective courses in order to specialize in one of four focus thrusts: Signal processing & information, power, and software, and systems containing hardware and the capacity of the programs within the college. All students must declare their major and join the program by completing 36 credit hours.

Learning Outcomes:
- An ability to apply knowledge of mathematics, science, and engineering.
- An ability to design and conduct experiments, as well as to analyze and interpret data.
- An ability to design a system, component, or process to meet desired needs within realistic constraints, such as economics, environment, society, politics, ethics, health and safety, manufacturability, and sustainability.
- An ability to function on multi-disciplinary teams.
- An ability to identify, formulate, and solve engineering problems.
- An understanding of professional and ethical responsibility.
- An ability to communicate effectively.
- The broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context.
- A recognition of the need for, and an ability to engage in lifelong learning.
- A knowledge of contemporary issues.
- An ability to use the techniques, skills, and modern engineering tools necessary for engineering practice.
- A knowledge of probability and statistics, including applications.
- An ability to analyze and design electrical and electronic devices, software, and systems containing hardware and software components.
- A knowledge of advanced mathematics including differential equations, linear algebra, and complex variables.

Opportunities
Electrical engineers play a vital role in any modern society. In Qatar, the need for highly qualified electrical engineering graduates has been stressed by the huge economic growth and social development the country is witnessing through the 2030 National Vision. These graduates who will contribute in designing and implementing phases of this vision and beyond must be trained at institutions of higher education. The electrical engineering graduates are being hired by prestigious partners such as Qatar Petroleum, Ooredoo, RasGas, Shell, Kahrama, QEWCS, Siemens, GE, Al-Jazeera, and QP. Some of them choose to pursue doctoral studies in leading universities in USA, Finland, UK, KSA, others. All program Alumni maintain a close relationship with the electrical engineering department.

DEGREE REQUIREMENTS

Major in Electrical Engineering
A minimum of 131 credit hours are required to complete the major in Electrical Engineering, including the following:
- A minimum of 33 credit hours in core curriculum requirements.
- A minimum of 27 credit hours of college requirements.
- A minimum of 12 credit hours of major electives.
- A minimum of 2 credit hours in free electives.

Core Curriculum Requirements (33 CH)

Common package (12 CH)
- ARAB 100 Arabic Language
- ENGL 200 English Language I Post Foundation
- ENGL 203 English Language II Post Foundation
- DAWA 111 Islamic Culture

Social/Behavioral Sciences package (3 CH)
Any Course in CCP defined social package

Humanities /Fine Arts package (3 CH)
Students must complete a minimum of 3 Credit Hours from courses listed in the Qatar and Gulf History Sub-package, which is part of the Humanities/Fine Arts package.

Natural Science/Mathematics package (3 CH)
- MATH 101 Calculus I

Supplemental College / Program core requirements package (12 CH)
- PHYS 101 General Physics for Engineering I
- PHYS 192 Experimental General Physics for Engineering I
- PHYS 193 General Physics for Engineering II
- PHYS 194 Experimental General Physics for Engineering II
- CHEM 101 General Chemistry I
- CHEM 103 Experimental General Chemistry I

Major Declaration
In order to declare a major in Electrical Engineering, students must satisfy the College of Engineering’s admission requirements and go through the specialization phase; students are assigned to programs based on the students’ choices and according to their score on the general secondary education certificate or its equivalent, and the capacity of the programs within the college. All students must declare their major and join the program by completing 36 credit hours.

Degree Requirements

- A knowledge of advanced mathematics including differential equations, linear algebra, and complex variables.
- An ability to use the techniques, skills, and modern engineering tools necessary for engineering practice.
- A knowledge of probability and statistics, including applications.
- An ability to analyze and design electrical and electronic devices, software, and systems containing hardware and software components.
- A knowledge of advanced mathematics including differential equations, linear algebra, and complex variables.

Opportunities
Electrical engineers play a vital role in any modern society. In Qatar, the need for highly qualified electrical engineering graduates has been stressed by the huge economic growth and social development the country is witnessing through the 2030 National Vision. These graduates who will contribute in designing and implementing phases of this vision and beyond must be trained at institutions of higher education. The electrical engineering graduates are being hired by prestigious partners such as Qatar Petroleum, Ooredoo, RasGas, Shell, Kahrama, QEWCS, Siemens, GE, Al-Jazeera, and QP. Some of them choose to pursue doctoral studies in leading universities in USA, Finland, UK, KSA, others. All program Alumni maintain a close relationship with the electrical engineering department.

DEGREE REQUIREMENTS

Major in Electrical Engineering
A minimum of 131 credit hours are required to complete the major in Electrical Engineering, including the following:
- A minimum of 33 credit hours in core curriculum requirements.
- A minimum of 27 credit hours of college requirements.
- A minimum of 12 credit hours of major electives.
- A minimum of 2 credit hours in free electives.

Core Curriculum Requirements (33 CH)

Common package (12 CH)
- ARAB 100 Arabic Language
- ENGL 200 English Language I Post Foundation
- ENGL 203 English Language II Post Foundation
- DAWA 111 Islamic Culture

Social/Behavioral Sciences package (3 CH)
Any Course in CCP defined social package

Humanities /Fine Arts package (3 CH)
Students must complete a minimum of 3 Credit Hours from courses listed in the Qatar and Gulf History Sub-package, which is part of the Humanities/Fine Arts package.

Natural Science/Mathematics package (3 CH)
- MATH 101 Calculus I

Supplemental College / Program core requirements package (12 CH)
- PHYS 101 General Physics for Engineering I
- PHYS 192 Experimental General Physics for Engineering I
- PHYS 193 General Physics for Engineering II
- PHYS 194 Experimental General Physics for Engineering II
- CHEM 101 General Chemistry I
- CHEM 103 Experimental General Chemistry I

College Requirement Courses (27 CH)
- MATH 102 Calculus II
- MATH 211 Calculus III
- MATH 217 Mathematics for Engineers
- GENG 108 Computer Programming
- GENG 107 Engineering Skills and Ethics
- GENG 200 Probability and Statistics for Engineers
- GENG 300 Numerical Methods
- GENG 360 Engineering Economics
- ELEC 201 Electric Circuits

Major Requirements (57 CH)
- MATH 385 Advanced Mathematics
- ELEC 202 Electric Circuits II
- ELEC 203 Electric Circuits II Lab
- ELEC 231 Fundamentals of Electronics
- ELEC 281 Digital Systems I
- ELEC 282 Digital Systems Design Lab
- ELEC 299 Electrical Engineering Seminar
- ELEC 311 Electromagnetics
- ELEC 312 Electric Machines
- ELEC 313 Electric Machines Lab
- ELEC 321 Power Systems Analysis
- ELEC 333 Electronics Engineering
- ELEC 399 Electric Circuits Lab
- ELEC 341 Communications Engineering
- ELEC 342 Communications Engineering Lab
- ELEC 351 Signals and Systems
- ELEC 352 Control Systems
- ELEC 366 Embedded Systems
- ELEC 387 Embedded Control Lab
- ELEC 371 Sensors and Instrumentation
- ELEC 375 Biomedical Engineering
- ELEC 399 Practical Training
- ELEC 498 Senior Design Project I
- ELEC 499 Senior Design Project II

Major Electives (12 CH)
Students must complete a minimum of 12 credit hours in the major elective courses listed below. Upon Department written approval, one major elective course may be selected from 300 and 400 level Engineering courses offered by other Engineering majors and counted towards satisfying the major electives required number of credit hours:
- ELEC 415 Power Electronics and Drives
- ELEC 416 Selected Topics in Electric Machines and Drives
- ELEC 422 Advanced Power Systems Analysis
- ELEC 423 Electric Power Distribution Systems
- ELEC 424 Operation of Power Systems
- ELEC 425 Selected Topics in Power Systems
- ELEC 438 Selected Topics in Electronics
**FIRST YEAR (31 credit hours)**

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<td>GENG 107</td>
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**SECOND YEAR (34 credit hours)**

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<td>ELEC 201</td>
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<td>ELEC 261</td>
<td>Digital Systems Design</td>
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**THIRD YEAR (36 credit hours)**

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**FOURTH YEAR (30 credit hours)**

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<td>Major Elective I</td>
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*Students must complete a minimum of 3 credit hours from Social/Behavioral Sciences package and a minimum of 3 credit hours from Humanities/Fine Arts package.*
Andrei Sleptchenko
Assistant Professors: Dinesh Seth, Khalifa Al-Khalifa, Samer Fikry, Sadok El-Mekkawy
El-Sadig Mahdi, Tahir Khan, Mohamed Haouari, Tarik Y. Abdul Magid Salem Hamouda, Shaligram Pokharel, Andrei Sleptchenko

ABOUT THE DEPARTMENT

The Department of Mechanical and Industrial Engineering is committed to excellence in teaching, research, and in providing service to the community. The Department offers two undergraduate majors; Industrial and Systems Engineering, and Mechanical Engineering. The Department has excellent specialized laboratories, workshop and computing facilities in various disciplines, and is comprised of an outstanding team of faculty members. Ph.D. students, staff, faculty members are actively engaged in both scholarly activities as well as creating a creative and environment suitable for a pleasant student learning and teaching experience. The staff are focused on student-centered learning. Frequently, faculty members include students in research programs and interactions with industry. Students gain first-hand exposure to real-world engineering problems which, along with communication and laboratory work, prepare them with the skills that make them attractive recruits to many employers after graduation. Student chapters of professional societies are established at the Department (IEEE, ASME and ASHRAE). The Students in the department enjoy participation in many out of class activities like the Shell Eco Marathon competition. The department students also enjoy participating in many international conferences and visits to other international universities.

BACHELOR OF SCIENCE IN INDUSTRIAL AND SYSTEMS ENGINEERING

Objectives
Graduates from the program are expected to achieve the following by 3-5 years after graduation:
1. Establish a successful career in the broad areas of industrial engineering and/or entrepreneurship.
2. Maintain competency in systems design, development, implementation and improvement of integrated systems.
3. An ability to design a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical and health and safety, manufacturability, and sustainability.
4. An ability to function on multidisciplinary teams.
5. An ability to identify, formulate, and solve engineering problems.
6. An understanding of professional and ethical responsibility.
7. An ability to communicate effectively.
8. The broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context.
9. A recognition of the needs for, and an ability to engage in lifelong learning.
10. A knowledge of contemporary issues.
11. An ability to use the techniques, skills, and modern engineering tools necessary for engineering practice.
12. Understand systems approach to design, develop, implement and improve integrated systems that include people, materials, information, equipment, and energy.
13. An ability to apply statistical principles for analysis.

Opportunities
Industrial Engineers make systems work better, safer, cost-effective and more efficient. With its diversity, industrial engineering is used virtually in all sectors, including manufacturing, distribution, government, energy, health care, services and finance. A distinguishing feature of the ISE discipline is the integration of people, machines, process flow, materials and information. ISE graduates aim to optimize the performance of such systems using available resources in the most efficient way without degrading social and physical environments. Unlike other engineering disciplines, maintain a focus on the system as opposed to the technical aspects of a system, the Industrial Engineer incorporates human and economic considerations in system design. This offers a broad range of career opportunities for our graduates. The need for high quality Industrial Engineers in a fast growing economy like Qatar is vital to maintain growth.

The Program is working towards maintaining ABET accreditation so that its graduates can pursue their graduate studies at any world-class university. The Department also offers a Ph.D. and Master in Engineering Management. Students are encouraged to set their academic goals high enough to pursue advanced studies in industrial and systems engineering. Students are encouraged to closely follow their own career development plan roadmap in order to be able to fulfill the course requirements on time.

DEGREE REQUIREMENTS

Major in Industrial and Systems Engineering A minimum of 128 credit hours are required to complete the major in Industrial and Systems Engineering, including the following:
- A minimum of 33 credit hours in core curriculum requirements.
- A minimum of 30 credit hours of college requirements.
- A minimum of 54 credit hours of major requirements.
- A minimum of 9 credit hours of major electives.
- A minimum of 2 credit hours in free electives.

Core Curriculum Requirements (33 CH)

Common Package (12 CH)
- ARAB 100 Arabic Language I
- ENGL 202 English Language I Post Foundation
- ENGL 203 English Language II Post Foundation
- DAWA 111 Islamic Culture

Social/Behavioral Sciences Package (3 CH)
Any Course in CCP defined social package

Humanities /Fine Arts Package (3 CH)
Students must complete a minimum of 3 Credit Hours from courses listed in the Qatar and Gulf History Sub-package, which is part of the Humanities/Fine Arts package.

Natural Science/Mathematics Package (3 CH)
MATH 101 Calculus I

Supplemental College / Program Core Requirements Package (12 CH)
- PHYS 191 General Physics for Engineering I
- PHYS 192 General Physics for Engineering II
- PHYS 193 General Physics for Engineering II
- PHYS 194 Experimental General Physics for Engineering II
- CHEM 101 General Chemistry I
- CHEM 103 Experimental General Chemistry I

College Requirements (30 CH)
- MATH 102 Calculus II
- MATH 211 Calculus III
- MATH 217 Mathematics for Engineers
- GENG 106 Computer Programming
- GENG 107 Engineering Skills and Ethics
- GENG 111 Engineering Graphics
- ELEC 201 Electric Circuits
- GENG 200 Probability and Statistics for Engineers
- GENG 350 Numerical Methods
- GENG 360 Engineering Economics

Major Requirements (54 CH)
- GENG 210 Statics & Dynamics
- GENG 231 Materials Science
- MECH 223 Solid Mechanics
- MECH 230 Manufacturing Processes
- IENG 210 Work Methods and Measurements
- IENG 300 Thermodynamics
- IENG 310 Facility Planning and Layout
- IENG 320 Statistical Quality Control
- IENG 330 Operations Research
- IENG 337 Production Planning and Inventory Control
- IENG 350 Simulation Systems
- IENG 410 Ergonomics and Safety Engineering
- IENG 420 Quality Management
- IENG 450 Production Automation
- IENG 452 Information Systems Engineering
- IENG 460 Manufacturing Systems Design
- IENG 481 Project Engineering
- IENG 498 Industrial Systems Design

Major Electives (9 CH)
Students must complete a minimum of 9 credit hours as follows:

Any Course in CCP defined social package
Option 1: Students can take 9 CH from the courses listed below:
- IENG 311 Advanced Operations Research
- IENG 411 Maintenance Planning & Control
- IENG 421 Decision Analysis
- IENG 423 Design of Experiments
- IENG 425 Reliability Engineering
- IENG 441 Concurrent Engineering
- IENG 451 Expert Systems
- IENG 478 Innovation & Entrepreneurship
- IENG 479 Special Topics
- IENG 484 Supply Chain Management
- IENG 485 Financial Engineering & Risk Management
- IENG 486 Service Operation Management

Option 2: Students can take 6 CH from the courses listed above in option 1 and 3 CH from the following courses offered by the College of Business and Economics:
- MAGT 405 Strategic Management

Free Electives (2 CH)
Students must complete a minimum of 2 credit hours from courses outside the College offering.

Study Plan:
Bachelor of Science in Industrial and Systems Engineering

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<th>FIRST YEAR (32 credit hours)</th>
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<td>CHEM 101</td>
<td>General Chemistry I</td>
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<td>CHEM 103</td>
<td>Experimental General Chemistry I</td>
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<td>IENG 106</td>
<td>Computer Programming</td>
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<td>PHYS 194</td>
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<td>IENG 231</td>
<td>Materials Science</td>
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<td>IENG 200</td>
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<td>MATH 217</td>
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<td>IENG 290</td>
<td>Thermodynamics</td>
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<td>IENG 330</td>
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<td>IENG 337</td>
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<td>Fall</td>
<td>DAWA 111</td>
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<td>IENG 410</td>
<td>Ergonomics and Safety Engineering</td>
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<td>IENG 460</td>
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*Student must complete a minimum of 3 credit hours from Social/Behavioral Sciences package and a minimum of 3 credit hours from Humanities /Fine Arts package

BACHELOR OF SCIENCE IN MECHANICAL ENGINEERING

Objectives
Graduates of the major are expected to achieve most of the following objectives:
- Establish a successful career as mechanical engineers in Gas and Oil, Petrochemicals, Public or Private sectors, and demonstrate professional engineering competence by progressing through positions of increasing responsibility.
- Develop into well-rounded citizens with responsibility towards society.
- Advance technically and professionally through continued learning, and have the ability to pursue graduate studies.

Major Declaration
In order to declare a major in Mechanical Engineering, applicants must satisfy the minimum high school percentage requirement for the major in the semester of admission. In addition, applicants must either successfully complete all requirements of the Foundation Program or satisfy the University’s competency requirements.

Learning Outcomes
1. An ability to apply knowledge of mathematics, science, and engineering.
2. An ability to design and conduct experiments, as well as to analyze and interpret data.
3. An ability to design a system, component, or process to meet desired needs within realistic constraints such as economics, environment, society, politics, ethics, and safety, manufacturability, and sustainability.
4. An ability to function on multidisciplinary teams.
5. An ability to identify, formulate, and solve engineering problems.
6. An understanding of professional and ethical responsibility.
7. An ability to communicate effectively.
8. The broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context.
9. A recognition of the need for, and an ability to engage in life-long learning.
10. A knowledge of contemporary issues.
11. An ability to use the techniques, skills, and modern engineering tools necessary for engineering practice.
12. An ability to work professionally in thermal and mechanical system areas.

Opportunities
Since 1985, the Department has produced a large number of outstanding engineers who have continued to excel in their chosen fields of work. Our graduates work with engineers and professionals from other disciplines to provide the fuel that drives this nation’s industries.
and government operations. They are also employed in different sectors and other varied professions in Qatar and across the world.

As the program has received ABET Substantial Equivalency accreditation, its graduates can pursue their graduate studies at any world-class university. The Department also offers a Master in Engineering Management, and students are encouraged to set their academic goals high enough to obtain advanced degrees in mechanical engineering.

### Major in Mechanical Engineering
- A minimum of 131 credit hours are required to complete the major in Mechanical Engineering, including the following:
  - A minimum of 33 credit hours in core curriculum requirements.
  - A minimum of 30 credit hours of college requirements.
  - A minimum of 12 credit hours of major electives.
  - A minimum of 2 credit hours in free electives.

#### Core Curriculum Requirements (33 CH)
- **Common Package (12 CH)**
  - MATH 101 Calculus I
  - ENGL 202 English Language I Post Foundation
  - ENGL 203 English Language II Post Foundation
  - DAWA 111 Islamic Culture
- **Natural Science/Mathematics Package (3 CH)**
  - MATH 101 Calculus I
- **Supplemental College / Program Core Requirements Package (12 CH)**
  - PHYS 191 General Physics for Engineering I
  - PHYS 194 General Physics for Engineering II
  - CHEM 101 General Chemistry I
  - CHEM 103 General Chemistry I
- **College Requirements (30 CH)**
  - MATH 102 Calculus II
  - MATH 211 Calculus III
  - MATH 217 Mathematics for Engineers
  - GENG 106 Computer Programming
  - GENG 107 Engineering Skills and Ethics
  - GENG 111 Engineering Graphics

#### Supplemental College / Program Core Requirements
- **MATH 101 Calculus I**
- **ENGL 202 English Language I Post Foundation**
- **ENGL 203 English Language II Post Foundation**
- **DAWA 111 Islamic Culture**

- **Natural Science/Mathematics Package (3 CH)**
  - MATH 101 Calculus I

#### Social/Behavioral Sciences Package (3 CH)
- Any Course in CCP defined social package

- **Humanities/Fine Arts Package (3 CH)**
  - Students must complete a minimum of 1 Credit Hours from courses selected from the following list:
    - Humanities/Fine Arts package.

- **Natural Science/Mathematics Package (3 CH)**
  - MATH 101 Calculus I

- **Supplemental College / Program Core Requirements Package (12 CH)**
  - PHYS 191 General Physics for Engineering I
  - PHYS 194 General Physics for Engineering II
  - CHEM 101 General Chemistry I
  - CHEM 103 General Chemistry I

- **College Requirements (30 CH)**
  - MATH 102 Calculus II
  - MATH 211 Calculus III
  - MATH 217 Mathematics for Engineers
  - GENG 106 Computer Programming
  - GENG 107 Engineering Skills and Ethics
  - GENG 111 Engineering Graphics

- **Core Curriculum Requirements (33 CH)**
  - **MATH 211 Calculus III**
  - **GENG 111 Engineering Graphics**
  - **MATH 102 Calculus II**
  - **PHYS 191 General Physics for Engineering I**
  - **PHYS 194 General Physics for Engineering II**
  - **CHEM 101 General Chemistry I**
  - **CHEM 103 General Chemistry I**

- **Core Electives (2 CH)**
  - Students must complete a minimum of 2 credit hours in courses outside the College offering.

- **Free Electives (2 CH)**
  - Students must complete a minimum of 2 credit hours from courses selected from the following list:

#### Study Plan: Bachelor of Science in Mechanical Engineering

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<th>Course Title</th>
<th>Credit Hours</th>
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<td>Fall</td>
<td>ENGL 202</td>
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<td>GENG 107</td>
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<td>GENG 108</td>
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<td>GENG 221</td>
<td>Engineering Mechanics I: Statics</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>GENG 200</td>
<td>Probability and Statistics for Engineers</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>MATH 217</td>
<td>Calculus II</td>
<td>3</td>
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<td>GENG 222</td>
<td>Engineering Mechanics II: Statics</td>
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<tr>
<td></td>
<td>PHYH 194</td>
<td>Experimental General Physics for Engineering II</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>MECH 213</td>
<td>Engineering Measurements</td>
<td>3</td>
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<tr>
<td></td>
<td>MECH 223</td>
<td>Solid Mechanics</td>
<td>3</td>
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<td></td>
<td>ELEC 201</td>
<td>Electric Circuits</td>
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<td>GENG 231</td>
<td>Material Science</td>
<td>3</td>
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<tr>
<td>Total Credit Hours in Semester</td>
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**FIRST YEAR (32 credit hours)**

**SECOND YEAR (33 credit hours)**

<table>
<thead>
<tr>
<th>Term</th>
<th>Course #</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall</td>
<td>ENGL 202</td>
<td>English Language I Post Foundation</td>
<td>3</td>
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<tr>
<td></td>
<td>MATH 101</td>
<td>Calculus I</td>
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<tr>
<td></td>
<td>GENG 107</td>
<td>Engineering Skills and Ethics</td>
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<tr>
<td></td>
<td>GENG 108</td>
<td>Computer Programming</td>
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<td></td>
<td>CHEM 101</td>
<td>General Chemistry I</td>
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<td>CHEM 103</td>
<td>Experimental General Chemistry I</td>
<td>1</td>
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<tr>
<td>Total Credit Hours in Semester</td>
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</table>

- **Term Course # Course Title Credit Hours**
- **Fall ENGL 202 English Language I Post Foundation 3**
- **MATH 101 Calculus I 3**
- **GENG 107 Engineering Skills and Ethics 3**
- **GENG 108 Computer Programming 3**
- **CHEM 101 General Chemistry I 3**
- **CHEM 103 Experimental General Chemistry I 1**
- **Total Credit Hours in Semester 16**

**Second Year (33 credit hours)**

- **Term Course # Course Title Credit Hours**
- **Fall MATH 211 Calculus III 3**
- **PHYS 193 General Physics for Engineering II 3**
- **PHYS 194 Experimental General Physics for Engineering II 3**
- **GENG 221 Engineering Mechanics I: Statics 3**
- **GENG 200 Probability and Statistics for Engineers 3**
- **MATH 217 Mathematics for Engineers 3**
- **GENG 222 Engineering Mechanics II: Statics 3**
- **MECH 213 Engineering Measurements 3**
- **MECH 223 Solid Mechanics 3**
- **ELEC 201 Electric Circuits 3**
- **GENG 231 Material Science 3**
- **Total Credit Hours in Semester 16**

- **Total Credit Hours in Semester 16**

- **Total Credit Hours in Semester 16**

- **Total Credit Hours in Semester 16**

- **Total Credit Hours in Semester 16**
THIRD YEAR (37 credit hours)

<table>
<thead>
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<tbody>
<tr>
<td>Fall</td>
<td>MECH 321</td>
<td>Mechanical Mechanisms</td>
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<td></td>
<td>MECH 322</td>
<td>Mechanical Vibrations</td>
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<td></td>
<td>MECH 342</td>
<td>Thermodynamics</td>
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<td>MECH 343</td>
<td>Fluid Mechanics</td>
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<td>MECH 230</td>
<td>Manufacturing Processes</td>
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Spring

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<tr>
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<th>Course Title</th>
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<tbody>
<tr>
<td>GENG 300</td>
<td>Numerical Methods</td>
<td>3</td>
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<tr>
<td>GENG 360</td>
<td>Engineering Economics</td>
<td>3</td>
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<tr>
<td>MECH 323</td>
<td>Mechanical Design I</td>
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<td>MECH 344</td>
<td>Heat Transfer</td>
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<td>MECH 361</td>
<td>Control Systems</td>
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<td>Energy Systems Laboratory</td>
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Summer

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<tbody>
<tr>
<td>MECH 399</td>
<td>Practical Training</td>
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FOURTH YEAR (30 credit hours)

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<td>MECH 421</td>
<td>Mechanical Design II</td>
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<td>MECH 448</td>
<td>Design of Energy Systems</td>
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<td>MECH480</td>
<td>Senior Project I</td>
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<td>Major Elective II</td>
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Spring

<table>
<thead>
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<tr>
<td>MECH 490</td>
<td>Senior Project II</td>
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<td>ARAB 100</td>
<td>Arabic Language I</td>
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<td>Major Elective III</td>
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<td>Major Elective IV</td>
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<tr>
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</table>

*Student must complete a minimum of 3 credit hours from Social/Behavioral Sciences package and a minimum of 3 credit hours from Humanities /Fine Arts package

COLLEGE OF LAW

Business & Economics Building (Women and Men Sections)
Phone: (974) 4403-5252 / 4403-5254
E-mail: law@qu.edu.qa
Website: http://www.qu.edu.qa/law

Dean
Mohammed Abdel Aziz Al Khulaifi

Associate Dean for Academic Affairs
Yaser Khalajleh

Associate Dean for Research
Francis Botchway

Assistant Dean for Student Affairs
Ola Shadid

Faculty:

Professors:
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Assistant Professors:

Lecturers:
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Teaching Assistants:
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ABOUT THE COLLEGE

Vision Statement
The College of Law aspires to be the premier college of law in the region in recognition of the quality of its academic program, the achievements of its faculty and graduates, and its service to the local and the international community.

Mission Statement
The mission of Qatar University College of Law is to be committed to provide its students with the finest legal education that shall equip them to unparalleled professional success. The mission of Qatar University College of Law shall extend as well to the production of the highest quality of legal scholarship and the provision of distinctive service to the local and the international community.

DEGREE OFFERINGS
The College of Law offers the following undergraduate degree program:
• Bachelor of Law (LL.B)

ABOUT THE LAW PROGRAM
The law program at Qatar University College of Law has an outstanding tradition of uniquely blending knowledge and legal expertise with the acquirement and practice of applicable field skills. In addition to the courses required for students to build their legal capabilities, the program provides many other elective modern and international legal courses, including intellectual property, foreign investments, labor law, international humanitarian law, human rights, international trade law and international criminal law.

BACHELOR OF LAW (LL.B)

Objectives
The major in Law is intended to:
• Enable students to acquire basic legal facts, concepts, principles and theories.
• Uphold students’ conception of rights at both national and international levels.
• Prepare students to understand, interpret, analyze and apply legal rules.
• Enable students to acquire drafting and pleading skills.
• Deepen students’ commitment to professional legal ethics and values.
• Develop students’ ability to practice legal critical thinking and solve problems.

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• Develop students’ ability to practice legal critical thinking and solve problems.
Learning Outcomes

LO 1: Knowledge
Graduates of the Bachelor of Law will demonstrate an understanding of a coherent body of knowledge that includes:
1) the fundamental areas of legal knowledge, the Qatari legal system, and underlying principles and concepts, including international and comparative contexts,
2) the broader contexts within which legal issues arise, and
3) understanding of the principles and values of ethical decision-making and the professional principles and values associated with the goals of justice and service to the wider community.

LO 2: Critical Thinking Skills
Graduates of the Bachelor of Laws will demonstrate the intellectual and practical skills needed to identify, research, evaluate and synthesize relevant factual, legal and policy issues.

LO 4: Ethics and Professional Responsibility
Graduates of the Bachelor of Laws will demonstrate:
1) an ability to recognize and reflect upon, a developing ability to respond to, ethical issues likely to arise in professional contexts,
2) a fundamental ability to exercise professional judgment.

LO 5: Communication
Graduates of the Bachelor of Laws will be able to communicate in ways that are effective, appropriate and persuasive for legal and non-legal audiences.

Opportunities
Graduates from the College of Law may expect to find engaging work opportunities in both the private and public sectors. They have the chance to become judges, to work in the public prosecution, or to be legal researchers for the State’s ministries. They are free to pursue status and success in sharesholding companies, banks, insurance and investment firms, oil and gas companies, and many other institutions that require their personal and academic ambitions. Alternatively, they may choose to start their own law and consulting offices and work independently.

There is never a limitation of opportunities available, so that students may continue expanding their focus and expertise, and join the best international universities to pursue their higher studies, or to work as law professors at Qatar University and many other educational institutions.

DEGREE REQUIREMENTS

Major in Law
A minimum of 123 credit hours are required to complete the major in Law, including the following:

- A minimum of 33 credit hours in core curriculum requirements.
- A minimum of 63 credit hours of major Electives.

Core Curriculum Program (33 CH)

LO 3: Research Skills
Graduates of the Bachelor of Law will demonstrate a fundamental ability to exercise professional judgment.

ENGL 335 Intellectual Property

LO 2: Critical Thinking Skills
Graduates of the Bachelor of Laws will be able to:
1) identify and articulate legal issues,
2) apply legal reasoning and research to generate appropriate responses to legal issues,
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## STUDY PLAN FOR THE BACHELOR OF LAW

### First Year

<table>
<thead>
<tr>
<th>No.</th>
<th>Term</th>
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<th>Course Title</th>
<th>Cr Hrs</th>
<th>Prerequisite</th>
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<tbody>
<tr>
<td>1</td>
<td>Fall</td>
<td>LAWC 101</td>
<td>Introduction to Law</td>
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<td>LAWC 222</td>
<td>Constitutional Law</td>
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<td>ARAB 100</td>
<td>Arabic Language I</td>
<td>3</td>
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Total (15 Credit Hours)

### Second Year

<table>
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<tr>
<th>No.</th>
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<tbody>
<tr>
<td>1</td>
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<td>LAWC 213</td>
<td>Sources of Obligations</td>
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<td>LAWC 323</td>
<td>Criminal Law</td>
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<td>3</td>
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<td>ENGL 111</td>
<td>English Language II</td>
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<td>ARAB 200</td>
<td>Arabic Language II</td>
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Total (15 Credit Hours)

### Third Year

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<tbody>
<tr>
<td>1</td>
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<td>LAWC 314</td>
<td>Contract Law I</td>
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<td>LAWC 214</td>
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<td>LAWC 316</td>
<td>Law of Civil Procedure I</td>
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<td>LAWC 214</td>
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<td>LAWC 399</td>
<td>Public International Law</td>
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<td>LAWC 223</td>
<td>Legal Research &amp; Writing II</td>
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Total (18 Credit Hours)

### Fourth Year

<table>
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<tr>
<th>No.</th>
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<tr>
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<td>LAWC 250</td>
<td>Family Law</td>
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Total (15 Credit Hours)

Grand Total (123 Credit Hours)
ABOUT THE COLLEGE

The mission of the College is to prepare our students to provide optimal pharmaceutical care and advance health care outcomes, to promote research and scholarly activity, and to serve as a pharmacy resource for Qatar, the Middle East and the world. Our vision is to be the leading pharmacy school in the Middle East region.

The specific goals of the program are:
1. To foster integration of knowledge and skills, and to develop our student’s general and professional abilities in a systematic ability-based curricula.
2. To integrate knowledge with practical experience to enhance career path and development.
3. To contribute to the professional education of practitioners.
4. To advance pharmaceutical and health outcomes by the conduct of internally and externally funded independent and collaborative research.
5. To provide an intellectual and academic atmosphere that is conducive to recruitment and development of qualified faculty.

DEGREE OFFERINGS

The College of Pharmacy offers the following undergraduate degree program:
• Bachelor of Science in Pharmacy (BSc (Pharm))

BACHELOR OF SCIENCE IN PHARMACY

Objectives

The specific objectives of the Pharmacy major are:
• To foster integration of knowledge and skills, and to develop our student’s general and professional abilities in a systematic, ability-based BSc and PharmD curricula that incorporates the following areas: biomedical sciences; pharmaceutical sciences; behavioral, social, and administrative pharmacy sciences; pharmacy practice; and clinical pharmacy.
• To integrate knowledge with practical experience to enhance career path and development.
• To contribute to the professional education of practitioners.
• To advance pharmaceutical and health outcomes by the conduct of internally and externally funded independent and collaborative research, and to disseminate the results of these efforts at well-recognized local, regional, and international conferences and in high-quality, peer-reviewed journals.
• To provide an intellectual and academic atmosphere that is conducive to recruitment and development of qualified faculty.
Major Declaration
In order to declare a major in Pharmacy, applicants must complete 12 credit hours of college-level courses in English, psychology, PCAT, Foundation Program requirements, prerequisite core curriculum and general science course work (minimum of 33 credit hours total) prior to application. Admission is competitive and a limited number of seats are available. Qualified applicants may be invited for an interview with the Admission Committee and only select applicants will be accepted into the major program on the basis of academic and non-academic criteria. Details can be found on the college website at www.qu.edu.qa/pharmacy.

Additional Requirements
Completion of the major in Pharmacy (BSc (Pharm)) requires successful completion of 173 credit-hours of courses and 26 weeks in the study plan. This includes six 4 credit-hour experiential training rotations in select hospital, clinic and community settings.

Learning Outcomes
Graduates of the major in Pharmacy will foster student achievement and mastery of the desired educational outcomes specific to the pharmacy degree, including:
- Care Provider: Pharmacy graduates use their knowledge, skills and professional judgment to provide pharmaceutical care and to facilitate management of patients’ medications and overall health needs.
- Communicator: Pharmacy graduates communicate with diverse audiences, using a variety of strategies that take into account desired outcomes of the communication and the target audience.
- Collaborator: Pharmacy graduates work collaboratively with teams to provide effective, quality health care and to fulfill their professional obligations to the community and society at large.
- Manager: Pharmacy graduates use management skills in their daily practice to optimize the care of patients, to ensure the safe and effective distribution of medications, and to maintain a sound utilization of health resources.
- Advocate: Pharmacy graduates use their expertise and influence to advocate for the health and well-being of individual patients, communities, and populations, and to support pharmacist’s professional roles.
- Scholar: Pharmacy graduates have and can apply the core knowledge and skills required to be a medication therapy expert, and are able to master, generate, interpret and disseminate pharmaceutical and pharmacy practice knowledge.
- Professional: Pharmacy graduates honor their roles as self-regulating professionals through both individual patient care and fulfillment of their professional obligations to the profession, the community and society at large.

Adopted for the purposes of CCAPP Accreditation from the Association of Faculties of Pharmacy of Canada Educational Outcomes for a Baccalaureate Pharmacy Graduate in Canada, June 3, 2010.

Opportunities
Career opportunities for graduates of the major in Pharmacy are diverse and widely available. The BSc (Pharm) curriculum is designed to prepare first-degree-to-practice graduates for careers primarily in community and hospital settings. Graduates are also expected to be prepared for careers in the pharmaceutical industry, health sciences research, government, pharmacy organizations, and academia. The accredited BSc curriculum design represents a hybrid of programs offered in North America, the U.K. and the Middle East.

Graduates of the major in Pharmacy are eligible to apply for the Doctor of Pharmacy (PharmD) program which commenced in 2011. The PharmD curriculum is designed to prepare advanced practitioners, researchers and academicians for virtually any health care setting. BSc (Pharm) graduates who wish to pursue a research and academic-focused career will also be eligible to apply for the MSc (Pharm) program which also commenced in 2011. The MSc (Pharm) degree is intended to provide an opportunity for students to advance their knowledge in specific areas of interest within the pharmaceutical sciences, and clinical Pharmacy and practices, in order to prepare them for future research and teaching positions in this discipline. The program is designed to prepare young scientists for careers in pharmaceutical education, research, industry, and related areas of specialized practice.

For further information, visit our website at www.qu.edu.qa/pharmacy.

DEGREE REQUIREMENTS

Major in Pharmacy
A minimum of 173 credit hours are required to complete the major in pharmacy, including the following:
- A minimum of 33 credit hours in Core Curriculum Requirements
- A minimum of 115 credit hours in Major Requirements
- A minimum of 17 credit hours in Core College Requirements
- A minimum of 8 credit hours in Major Electives

Core Curriculum Program (33 CH) Common package (12 CH)
- ARAB 100 Arabic Language I
- ENGL 202 English Language I - Post Foundation
- ENGL 203 English Language II - Post Foundation
- DAWA 111 Islamic Culture

Social/Behavioral Sciences package (3 CH) Courses in CCP defined social package

Humanities /Fine Arts package (3 CH) Students must complete a minimum of 3 Credit Hours from courses listed in the Qatar and Gulf History Sub-package, which is part of the Humanities/Fine Arts package.

Natural Science/Mathematics package (3 CH) Students must complete a minimum of 3 Credit Hours from the following courses:
- MATH 101 Calculus I

Supplemental College/Program Core Requirements package (12 CH)
- CHEM 351 Basic Biochemistry
- CHEM 352 Experimental Biochemistry
- CHEM 200 Medical Chemistry
- CHEM 101 General Chemistry I
- CHEM 103 Experimental General Chemistry I

College Core Requirements (17 CH)
Students must complete a minimum of 17 credit hours in College Core courses, 6 of which in supporting courses and the remaining 11 credit hours in General Science courses, as detailed below.

Supporting Courses package (6 CH)
Students must complete a minimum of 6 credit hours from the following courses:
- STAT 151 Introduction to Applied Statistics
- BIOL 101 General Biology

General Science package (11 CH) Students must complete a minimum of 11 credit hours from the following courses:
- BIOM 211 Human Anatomy
- BIOM 215 Human Physiology
- BIOM 243 Introduction to Pathology
- CHEM 209 Fundamentals in Organic Chemistry

Major Requirements (115 CH)
A minimum of 115 credit hours of compulsory courses including:
- PHAR 200 Medicinal Chemistry I
- PHAR 201 Medicinal Chemistry II
- PHAR 210 Pharmacology I
- PHAR 220 Foundations of Pharmacology & Pharmacotherapeutics I
- PHAR 221 Foundations of Pharmacology & Pharmacotherapeutics II
- PHAR 230 Pharmaceutics and Health Care I
- PHAR 231 Pharmacy and Health Care II
- PHAR 240 Professional Skills I
- PHAR 241 Professional Skills II
- PHAR 250 Microbiology for Pharmacy
- PHAR 305 Pharmacy Practice, Evaluation and Presentation Skills I (PREP skills I)
- PHAR 306 Pharmacy Research, Evaluation and Presentation Skills II (PREP skills II)
- PHAR 310 Pharmacoeconomics
- PHAR 311 Pharmacokinetics
- PHAR 316 Pharmacotherapeutics
- PHAR 317 Pharmacokinetics
- PHAR 320 Pharmacology I
- PHAR 321 Pharmacology II
- PHAR 330 Structured Professional Practice Experience I
- PHAR 340 Professional Skills III
- PHAR 341 Professional Skills IV
- PHAR 350 Pharmacy Ethics and Law
- PHAR 390 Interpretation of Lab Data I
- PHAR 391 Interpretation of Lab Data II
- PHAR 361 Patient Assessment Laboratory I
- PHAR 362 Patient Assessment Laboratory II
- PHAR 370 Pathophysiology I
- PHAR 371 Pathophysiology II
- PHAR 380 Pharmacotherapy
- PHAR 381 Pharmacotherapy II
- PHAR 390 Integrated Case-Based Learning I
- PHAR 391 Integrated Case-Based Learning II
- PHAR 405 Pharmacy Research, Evaluation and Presentation Skills III (PREP skills III)
- PHAR 406 Pharmacy Research, Evaluation and Presentation Skills IV (PREP skills IV)
- PHAR 410 Pharmacology I
- PHAR 411 Toxicology
- PHAR 420 Pharmacology II
- PHAR 421 Pharmacology IV
- PHAR 425 Pharmacognosy, Alternative/Complementary Treatments
- PHAR 430 Structured Professional Practice Experience II
- PHAR 440 Professional Skills V
- PHAR 441 Professional Skills VI
- PHAR 450 Healthcare delivery systems
- PHAR 470 Pathology I
- PHAR 471 Pathophysiology IV
- PHAR 480 Pharmacotherapy III
- PHAR 488 Pharmacotherapy IV
- PHAR 485 Pediatrics/Geriatrics
- PHAR 490 Integrated Case-Based Learning III
- PHAR 491 Integrated Case-Based Learning IV
- PHAR 505 Pharmacy Research, Evaluation and Presentation Skills V (PREP skills V)
- PHAR 506 Pharmacy Research, Evaluation and Presentation Skills VI (PREP skills VI)
- PHAR 525 Pharmacoeconomics & pharmacoeconomics
- PHAR 530 Structured Professional Practice Experience III
### PHAR 531 Structured Professional Practice Experience IV
- PHAR 532 Structured Professional Practice Experience V
- PHAR 533 Structured Professional Practice Experience VI
- PHAR 535 Pharmacy Management
- PHAR 590 Integrated Case-Based Learning V
- PHAR 533 Structured Professional Practice Experience VI
- PHAR 590 Integrated Case-Based Learning V

**Major Electives (8 CH)**
A minimum of 8 credit hours in elective pharmacy courses:
- PHAR 445 Rx Elective I
- PHAR 446 Rx Elective II
- PHAR 545 Rx Elective III

### FIRST YEAR (35 credit hours)

<table>
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<td>PHAR200</td>
<td>Medicinal Chemistry I</td>
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<td>BIOM215</td>
<td>Human Physiology</td>
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<tr>
<td></td>
<td>PHAR220</td>
<td>Foundations of Pharmacology &amp; Pharmacotherapeutics I</td>
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<tr>
<td></td>
<td>CHEM351</td>
<td>Basic Biochemistry</td>
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<tr>
<td></td>
<td>CHEM352</td>
<td>Experimental Biochemistry</td>
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<tr>
<td></td>
<td>PHAR230</td>
<td>Pharmacy and Health Care I</td>
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<td>BIOM311</td>
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**Total Credit Hours in Semester 17**

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<td>PHAR250</td>
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<tr>
<td></td>
<td>STAT151</td>
<td>Applied Statistics</td>
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<td>PHAR201</td>
<td>Medicinal Chemistry II</td>
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<td></td>
<td>PHAR210</td>
<td>Pharmacogenetics I</td>
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<td></td>
<td>BIOM43</td>
<td>Introduction to Pathology</td>
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<td>PHAR221</td>
<td>Foundations of Pharmacology &amp; Pharmacotherapeutics II</td>
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<td>PHAR241</td>
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**Total Credit Hours in Semester 18**

### SECOND YEAR (37 credit hours)

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<td>PHAR370</td>
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<td>PHAR380</td>
<td>Pharmacotherapy II</td>
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<td></td>
<td>PHAR316</td>
<td>Pharmacokinetics I</td>
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<td></td>
<td>PHAR390</td>
<td>Integrated Case-Based Learning I</td>
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<td>Professional Skills III</td>
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<td>PHAR365</td>
<td>Pharmacy Research, Evaluation and Presentation Skills I</td>
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<td>PHAR359</td>
<td>Interpretation of Lab Data I</td>
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<td>PHAR361</td>
<td>Patient Assessment Laboratory I</td>
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**Total Credit Hours in Semester 16**

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<td>Spring</td>
<td>PHAR362</td>
<td>Patient Assessment Laboratory II</td>
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<td>PHAR317</td>
<td>Pharmacokinetics II</td>
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<td>PHAR350</td>
<td>Pharmacology Ethics and Law</td>
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<td></td>
<td>PHAR371</td>
<td>Pathophysiology I</td>
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<td>PHAR321</td>
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<td>PHAR381</td>
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<td>Professional Skills IV</td>
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<td></td>
<td>PHAR360</td>
<td>Interpretation of Lab Data II</td>
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**Total Credit Hours in Semester 17**

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<th>Term</th>
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<th>Course Title</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td>Summer</td>
<td>PHAR330</td>
<td>Structured Practical Experiences in Pharmacy</td>
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**Total Credit Hours in Semester 4**

### THIRD YEAR (39 credit hours)

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<tbody>
<tr>
<td>Fall</td>
<td>PHAR410</td>
<td>Pharmacology IV</td>
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<tr>
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<td>PHAR470</td>
<td>Pathophysiology III</td>
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<tr>
<td></td>
<td>PHAR420</td>
<td>Pharmacology III</td>
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<td>PHAR480</td>
<td>Pharmacotherapy III</td>
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<tr>
<td></td>
<td>PHAR415</td>
<td>Toxicology</td>
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<tr>
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<td>PHAR490</td>
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<td>PHAR440</td>
<td>Professional Skills I</td>
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<td>PHAR405</td>
<td>Pharmacy Research, Evaluation and Presentation Skills III</td>
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<td>PHAR450</td>
<td>Healthcare delivery systems</td>
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<td>PHAR445</td>
<td>Rx Elective I</td>
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**Total Credit Hours in Semester 18**

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<th>Term</th>
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<th>Course Title</th>
<th>Credit Hours</th>
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<tr>
<td>Spring</td>
<td>PHAR425</td>
<td>Pharmacogony, Alternative/Complementary Treatments</td>
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<td>Pediatrics/Geriatrics</td>
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<td>PHAR471</td>
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<td>PHAR421</td>
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<td>PHAR481</td>
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<td>Professional Skills VI</td>
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**Total Credit Hours in Semester 17**

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<tr>
<th>Term</th>
<th>Course #</th>
<th>Course Title</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td>Summer</td>
<td>PHAR330</td>
<td>Structured Practical Experiences in Pharmacy II</td>
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**Total Credit Hours in Semester 4**

### FOURTH YEAR (27 credit hours)

<table>
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<tbody>
<tr>
<td>Fall</td>
<td>PHAR530</td>
<td>Structured Practical Experiences in Pharmacy III</td>
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<td>PHAR531</td>
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<td>PHAR532</td>
<td>Structured Practical Experiences in Pharmacy V</td>
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<td>PHAR533</td>
<td>Structured Practical Experiences in Pharmacy VI</td>
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<tr>
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<td>PHAR505</td>
<td>Pharmacy Research, evaluation and presentation skills V</td>
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**Total Credit Hours in Semester 10**
COLLEGE OF SHARIA AND ISLAMIC STUDIES
Sharia Building (Women’s Section)
Phone: (974) 4403-4447
E-mail: shariadean@qu.edu.qa
Website: http://www.qu.edu.qa/ar/sharia/index.php
(Men’s section)
Phone: (974) 4403-4400
E-mail: shariadean@qu.edu.qa
Website: http://www.qu.edu.qa/ar/sharia/index.php
Dean
A. Hakeem Yousuf A. Alkhelaifi
Associate Dean for Academic Affairs
Yousef Mahmood Al-Sidekey
Associate Dean for Research and Graduate Studies
Sultan Ibrahim S K Al-Hashmi

ABOUT THE COLLEGE
The mission of the College is to produce competent graduates in Islamic studies of high quality and international repute who are capable of actively responding to the needs and aspirations of the society and demonstrating communication and research related skills in their dissemination of knowledge. The College will also conduct research that addresses classical, modern & contemporary issues and contributes to the world wide advancement of knowledge in the field.

DEGREE OFFERINGS
The College of Sharia and Islamic Studies offers the following undergraduate Degree programs:
• Bachelor of Dawa and Mass Communication
• Bachelor of Islamic Studies

DEPARTMENT OF DAWA AND ISLAMIC CULTURE
Sharia Building (Women’s Section)
Phone: (974) 4403-4476/4467
E-mail: shafi@qu.edu.qa
Website: http://www.qu.edu.qa/ar/sharia/programs.php
Head
Mohamed Amezian
Faculty
Professors:
Mohamed Amezian, Abdelsalam Bishr Mohamed S Khamis, Abdelkader Bekrouch, Dheen Mohamed Mohamed Meerasheb.
Associate Professors:
Zakaryya Abdelhady, Musaab Al-Idrisi
Assistant Professors:
Amenea Al-Ansari, Shafi Al-Hajri, , Hamed Al-Marwani, Basrouny Nehela, Ramadan Mohamed Matarid, Mohamed Rifai Ameen, Eltigani Ahmed, Mohamed Mrah

ABOUT THE DEPARTMENT
The Department offers a Bachelor of Dawa and Mass Communication degree; its main purpose lies in producing a team of specialized scholars who are capable of presenting the message of Islam as a tolerant, humane, peace-loving, culturally pluralistic and socially dynamic religion. In this way, we are hopeful of serving Qatari society, as well as the Arab-Islamic world and humanity at large.

BACHELOR OF DAWA AND MASS COMMUNICATION
Objectives
• Serving the Islamic world by preparing a team of competent scholars who are able to serve at centers of Islam and Culture in the western world, where there is a dire need for such people who can relate with the “other” as mentioned in the objectives of the program.
• Produce graduate who are progressive, enlightened, understand their religion and are endowed with tolerance, moderation and open-mindedness. They should be trained to engage in dialogue far from extremist and fanatic tendencies.
• Acquaint them thoroughly with modern trends of thought and their religious and philosophical approaches as well influential social and political tendencies which have gained currency.
• Enable them to understand and appreciate the
challenges and demands of time and be capable of accommodating themselves according to its needs. • Create in them the ability to soundly analyze modern social values and behavioral patterns and take a sensibly objective stance towards them. • Produce graduates endowed with religious commitment, who work in television and broadcasting corporations as well as internet sites, who are additionally capable of doing research work for Islam. • Train our graduates to understand Islam through its belief system, heritage and civilization, and present it in a cultured and acceptable manner to the modern mind. In this way they would be expected to safeguard Islamic-Arabic civilization intellectually and in all other aspects. • Induce in them a positive view and stance towards the culturally “other” and encourage dialogue between civilizations and religions. • Enable them to present Islam with its wisdom, amenability and adaptability.

Major Declaration
Applicants must satisfy the minimum high school percentage requirement for the major in the semester of admission. A personal interview is also required.

Learning Outcomes
• Understand the nature of different thoughts and philosophies.
• Consider a variety of ways to make decisions and solve problems.
• Preserve and promote pride in Islamic values & ethics.
• Make others know the tolerance of the message of Islam.
• Hold discussions with others in a methodological & contemporary way.
• Discuss intellectual issues in the dialogue of civilizations, as per contemporary trends.
• Use modern, mass-adopted technologies.
• Write scientific research by using diverse tools.

Opportunities
The Program will attract students who are desirous of working in religiously-oriented mass media, in the field of Islamic Dawa in Qatar and abroad, in the field of teaching, in the field of religious and civilization dialogue, and in the field of Islamic Culture. The Program is geared to serve Qatar society by producing graduates who are:
• Teachers of Islamic Sciences
• Religious Specialists
• Religious media figures
• Preachers and Imams for mosques

Major in Dawa and Mass Communication
A minimum of 120 credit hours are required to complete the major in Dawa and Mass Communication, including the following:
• A minimum of 33 credit hours in core curriculum requirements.
• A minimum of 39 credit hours of major requirements.
• A minimum of 24 credit hours in minor requirements and electives.
• A minimum of 12 credit hours of free electives.

Core Curriculum Program (33 CH)
Common package (15 CH)
• ARAB 100 Arabic Language I
• ARAB 200 Arabic Language II
• ENGL 110 English I
• ENGL 111 English II
• DAWA 111 Islamic Culture

Social/Behavioral Sciences package (3 CH)
Courses in CCP defined Social/Behavioral Sciences package

Humanities/Fine Arts package (6 CH)
Courses in CCP defined Humanities/Fine Arts package. Students must complete a minimum of 3 Credit Hours from courses listed in the Qatar and Gulf History Sub-package, which is part of the Humanities/Fine Arts package.

Natural Science/Mathematics package (3 CH)
Courses in CCP defined Natural Science/Mathematics package

General Knowledge package (3 CH)
Courses in CCP defined General Knowledge package

General Skills package (3 CH)
Courses in CCP defined General Skills package

Major Requirements (39 CH)
• ISLA 101 Studies in Islamic Creed
• ISLA 102 Quranic Sciences
• ISLA 104 Sciences of Hadith
• DAWA 113 Philosophy of Sirah
• DAWA 204 Research Methodology
• DAWA 202 Introduction to General Philosophy
• DAWA 203 Principles & Methodology of Dawa
• DAWA 301 Contemporary issues of Fiqh
• DAWA 302 World Religions (Comparative Studies)
• DAWA 303 Comparative Mysticism
• DAWA 401 Area Studies
• DAWA 402 World Religious Thought
• DAWA 403 Graduation Project (Capstone)

Major Electives (12 CH)
Students must complete a minimum of 12 credit hours in courses selected from the following list:
• DAWA 114 Modern techniques of Dawa
• ISLA 201 Principles of Islamic Jurisprudence
• ISLA 106 Fiqh of Worship
• DAWA 117 Ethics
• DAWA 214 Textual Study of the Quran
• DAWA 205 School of Islamic Thought
• DAWA 206 International Organizations & Human Rights
• DAWA 207 Islamic Institutions
• ISLA 308 Contemporary Intellectual Trends
• DAWA 305 Modern Philosophy
• DAWA 306 History of Religion
• DAWA 404 Sociology of Religion
• DAWA 405 Independent Studies

Minor in Mass Communication (24 CH)
Students must complete the minor in Mass Communication

Free Electives (12 CH)
Students must complete a minimum of 12 Credit Hours in free electives from courses outside the major.
### Study Plan

**First Year (30 credit hours)**

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**Third Year (30 credit hours)**

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**Fourth Year (30 credit hours)**

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### Department of Islamic Studies

**Sharia Building (Women’s Section)**

Phone: (974) 4403-4424/4425/4488

E-mail: islamicstudy@qu.edu.qa


**Head**

Sail K Karim al-Zanki

**Faculty**

**Professors:**


**Associate Professors:**

Yousuf Mahmoud M M Flamerzi, A.Alhami Al-Otaki, Saad-Eddine Dedecho, Abdel Jabbar Ahmad Mohamed Said, Ayman Al Saleh, Ali Ihsan Pala

**Assistant Professors:**

Mohammed Saleh M S Alsheeb, Ibrahim Abdul I Al-Amsari, Yahya Hamad Al-Naeemi, Mahrood Athamawa, Essa Abdul A Kahrini, Hassan Yachou, Sultan Ibrahim, Ahmad Al-Om, Mahmoud Said Hamida Ali, Mohamed Abdel Latif Rajab.

### About the Department

The Department offers a Bachelor of Islamic Studies degree, and its main purpose lies in producing a team of specialized scholars who are capable of presenting the message of Islam and able to address contemporary issues through a combination of tradition and modernity.

**Bachelor of Islamic Studies**

**Objectives**

The Islamic Studies major aims to help students:

1. Promote the right understanding of Islam as a method of contemporary issues.
2. Deal with basic resources of Islam and legal texts according to the original right device, and its application in the real life.
3. Develop balanced critical thinking and research, through different methods.
4. Positively interact with others and refrain from excessive and extreme behavior.
5. Thoroughly understand the history and development of Islamic Civilization and its human achievements.
6. Promote good manners regarding differences, deal objectively with different opinion, encourage dialogue between civilizations, and realize effective coexistence under multiculturalism.
7. Acquire modern means of communication and information technology to address contemporary issues.
8. Logically face ideological and behavioral deviances, and wrongful judgments.
9. Become advisors and researchers who will meet the needs of society, by spreading Islamic thought and values.

**Major Declaration**

Applicants must satisfy the minimum high school percentage requirement for the major in the semester of admission.

**Learning Outcomes**

At the end of the program, the student should:

1. Know the basic resources of Islam and the principles and methods of Islamic jurisprudence.
2. Share noble humanitarian Islamic values.
3. Scientifically analyze Islamic legal texts.
4. Know and scientifically devise Islamic Rulings and combinations, tradition and modernity.
5. Positively use Scientific Islamic Heritage to address contemporary issues.
6. Positively interact with others and refrain from extreme and extreme behavior.
7. Write scientific research in different branches of Islamic knowledge and have the necessary language tools.
8. Know intellectual and cultural Islamic heritage.
9. Combine tradition and modernity.
10. Know and critically deal with Western efforts in the field of Islamic Studies.

**Opportunities**

This Islamic Studies major is geared to serve the Qatari society by producing graduates who are:

- Teachers of Islamic Studies
- Workers in Islamic courts and the Ministry of Justice.
- Teachers of Islam in Islamic Financial Institutions
- Teachers of Islam in Research Institutions.
- Workers in Islamic Financial Institutions.
- Teachers of Islamic Studies

**Degree Requirements**

**Major in Islamic Studies**

A minimum of 120 credit hours are required to complete the major in Islamic Studies, including the following:

- A minimum of 33 credit hours in core curriculum

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**Bachelor of Islamic Studies**

**Objectives**

The Islamic Studies major aims to help students:

1. Promote the right understanding of Islam as a method of life away from extravagance and negligence.
2. Deal with basic resources of Islam and legal texts according to the original right device and its application in the real life.
3. Develop balanced critical thinking and research through different methods.
4. Positively interact with others and refrain from excessive and extreme behavior.
5. Thoroughly understand the history and development of Islamic Civilization and its human achievements.
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<tr>
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<td>ISLA 101</td>
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**SECOND YEAR (30 credit hours)**

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**Study Plan: Concentration in Sharia**

**FIRST YEAR (30 credit hours)**

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**THIRD YEAR (30 credit hours)**

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**FOURTH YEAR (30 credit hours)**

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### Study Plan: Concentration in Usuluddin

#### FIRST YEAR (30 credit hours)

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#### SECOND YEAR (30 credit hours)

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<th>Term</th>
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<tr>
<td>Fall</td>
<td>DAWA 111</td>
<td>Islamic Culture</td>
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<tr>
<td></td>
<td>ENGL 200</td>
<td>English Language I for Arts, Sharia and Education</td>
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<tr>
<td></td>
<td>ISLA 201</td>
<td>Principles of Islamic Jurisprudence</td>
<td>3</td>
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<td>ISLA 203</td>
<td>Fiqh of Transactions</td>
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<td></td>
<td>DAWA/ ISLA XXX</td>
<td>Major Electives for Usuluddin</td>
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<td><strong>Total Credit Hours in Semester</strong></td>
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<td>ENGL 201</td>
<td>English Language II for Arts, Sharia and Education</td>
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<td></td>
<td>ISLA 202</td>
<td>Logic and Research Methodology</td>
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<td>ISLA 204</td>
<td>Sufism and Ethics</td>
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<td>XXXX XXX</td>
<td>Core Curriculum</td>
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#### THIRD YEAR (30 credit hours)

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<td>USUL 301</td>
<td>Principles of Exegesis</td>
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<td>USUL 335</td>
<td>Contemporary Studies in Quran and Sunna</td>
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<td>ISLA 302</td>
<td>Family Jurisprudence</td>
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<td>Islamic Theology</td>
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#### FOURTH YEAR (30 credit hours)

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<td>Methodology of Muhadditheen: Theory and Practice</td>
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<td><strong>Total Credit Hours in Semester</strong></td>
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CHAPTER 13
COURSE LISTING

ACCT 110
Financial Accounting
Credit Hours: 3
This course introduces financial accounting for various business entities. Topics covered include accounting concepts and principles based on generally accepted accounting principles (GAAP). Emphasis will be on analyzing, recording, classifying, and communicating information, including the preparation of financial statements.
Prerequisite
COMP 002 OR IC3 Computing 2350 OR Computer Placement Test 2 060 OR COMP F003 OR MATH 119 AND ( ENGL 004 OR ENGL 202 OR TOEFL Internet-based Test 061 OR TOEFL Inst Testing Prqg 500 OR Int Eng Lang Test Syst-IELTS 5.5 OR TOEFL Computer-based Test 173 OR ENGL F073)

ACCT 111
Principles of Accounting I
Credit Hours: 3
Principles of accounting and the relationship between accounting and other disciplines are introduced. Topics examined include accounting concepts, principles, and policies according to generally accepted accounting principles (GAAP). The approach of the balance sheet equation will be introduced as well as types of journals, ledgers, and financial reports.
Prerequisite
ENGL 198 AND MATH 119

ACCT 116
Managerial Accounting
Credit Hours: 3
This course provides an introduction to management accounting as it applies to the use of accounting information in planning and controlling business operations. Students are introduced to cost terms, cost behavior, cost-volume-profit analysis, variable costing, budgeting, and relevant costs for decision making.
Prerequisite
ACCT 110 OR ACCT 111

ACCT 221
Intermediate Accounting I
Credit Hours: 3
This course focuses on essential financial accounting concepts and standards related to corporate reporting with special emphasis on preparation of financial statements. Primary concern is with asset measurement and income determination.
Prerequisite
ACCT 116 OR ACCT 112

ACCT 222
Intermediate Accounting II
Credit Hours: 3
This course is the third in the sequence of financial accounting courses. It provides a rigorous exposure to the theory and application of generally accepted accounting principles, particularly in the areas of liability and equity accounts as well as financial reporting.
Prerequisite
ACCT 221

ACCT 331
Cost & Management Accounting
Credit Hours: 3
This course provides an in-depth study of cost management accounting concepts and principles as they apply to manufacturing and service environments. Students are introduced to cost accumulations and assignments using traditional and contemporary cost accounting approaches, and budgeting. The use of accounting information in planning, controlling, and evaluating business decisions both short- and long-term to be covered.
Prerequisite
ACCT 116 OR ACCT 112

ACCT 333
Auditing I
Credit Hours: 3
This course introduces basic concepts of auditing attestation and assurance. Areas studied include the quality control standards and the code of professional ethics, regulation and legal liabilities audit evidence and audit programs, assessment of risks and materiality, and audit reports.
Prerequisite
ACCT 116 OR ACCT 112

ACCT 411
Government Accounting
Credit Hours: 3
This course provides an overview of the concepts and procedures of fund accounting. The general framework of State Budget will be addressed in addition to the accompanying detailed timetable needed for its special preparation. Accounting for not-for-profits, such as hospitals and universities to be addressed.
Prerequisite
ACCT 116 OR ACCT 112

ACCT 412
Managerial Accounting
Credit Hours: 3
Use of accounting information in a rational decision-making process in both the short term and the long run. Marginal contribution, cost-volume-profit (CVP), divisional performance analysis, and budgeting planning and control will be addressed.
Prerequisite
ACCT 325

ACCT 413
Auditing II
Credit Hours: 3
This course provides the continuation of concepts of auditing attestation and assurance studied in Auditing I. Areas to be studied include test of controls and substantive audit testing for various cycles and balances, statistical sampling for control testing and substantive testing, and in-depth audit reports.
Prerequisite
ACCT 333

ACCT 415
Cost Accounting II
Credit Hours: 3
Cost accounting process systems, cost accounting reports, calculating the costs of each process, and the average cost per cost element (raw material, labor, and overhead). Additional topics examined are the standard cost system, variance analysis for all cost elements, the cost of byproducts and how to split the common cost among different products. The cost construction system, as well as preparing the cost reports will also be addressed.
Prerequisite
ACCT 325
ACCT 418 Advanced Accounting  
Credit Hours: 3  
This course focuses on accounting for business combinations and consolidated financial statements. International accounting and foreign exchange translation, accounting for partnership formation and liquidation and interim reporting is addressed.  
Prerequisite ACCT 221

ACCT 421 Accounting Information Systems  
Credit Hours: 3  
This course focuses on concepts and procedures related to accounting information systems. Areas studied include system design and implementation, relationship between accounting information systems and other information systems within the organization, flowcharts, and computer applications and tools.

Prerequisite ACCT 116 OR ACCT 112

ACCT 424 International Accounting  
Credit Hours: 3  
Presenting accounting issues related to international business transactions, harmonization of accounting principles, and comparative accounting systems. Topics covered include principles of the accounting environment, accounting of changing prices, international financial statement analysis, auditing for global operations, taxation, and international accounting issues, and the International Accounting Standards (IAS).

Prerequisite ACCT 116

ACCT 428 Fin Statements Analysis  
Credit Hours: 3  
This course examines performance evaluation of projects from accounting and financial perspectives. Areas studied include trend analysis, ratio analysis, vertical and horizontal analysis for different financial statements, and statement of cash flow analysis.

Prerequisite ACCT 116 OR ACCT 112

ARAB 100 Arabic Language I  
Credit Hours: 3  
The course aims to provide students the important skills to communicate in Arabic; listening, speaking, and reading, with attention to writing skills in relation to each. This is done through content that includes a variety of topics related to contemporary Arabic, through deep analysis of linguistic and literary texts. The course has been introduced in an interactive learning environment based on: 1) student activities, 2) Developing student skills, 3) learning and collaborative methods, 4) Communication skills for self-expression and ideas in different ways, 5) Solving problems through critical thinking skills and creativity, and 6) The absorption of ideas in different contexts. The assessment process uses a variety of tools to measure the attainment of student learning outcomes.

ARAB 107 Arabic Language Basics  
Credit Hours: 3  
This course is designed to introduce learners of Arabic as a second/foreign language to the basic structures of Arabic and to its uses in common situations of everyday communication; through a content which relates to everyday familiar situations and some apparent aspects of the Arab culture. The course aims to enable the Non-Native Speaker student to acquire fundamental working knowledge of the Arabic Language through interactive exercises and drills. This is done within a framework of the essentials of syntax and morphology in a student-centered learning environment, in order to be able to successfully handle a number of interactive, task-oriented, and social situations.

ARAB 109 Language Skills  
Credit Hours: 3  
This course aims to enable the student acquire the four language skills (listening, speaking, reading and writing), i.e. to develop the skill of speaking sound Arabic; enhance communication with others; master the skills of reading, sending / receiving oral and written communications; and to master correct writing skills and identify proper ways of usage. All this is achieved through content which focuses on the functional aspect of the language, with attention to acquiring the knowledge of types of speech and signs of each type; differentiating inflected and uninflected signs and knowing the signs of both; and recognizing the two types of the Arabic sentence and their components, in an active-learning student-centered atmosphere, utilizing various learning activities, including readings of quality linguistic and literary source books to enable them employ their language skills in absorbing source texts, with a relative weight of up to 80% of the skill, employing various assessment tools.

ARAB 110 Intro to Literature & Language  
Credit Hours: 3  
This course aims at building students’ familiarity with and competence in Arabic literature in its various genres, so as to increase their ability to appreciate literature and to develop their awareness of its concepts through the study of poetry and short story.

Prerequisite ( ARAB 239 OR ARAB 109 OR ARAB 100) OR ( ARAB 109 AND ARAB 106) AND ARAB 107

ARAB 116 Classical Arabic Poetry I  
Credit Hours: 3  
The course deals with science of morphology in the Arabic language, providing the historical context surrounding the emergence of this science, its importance, subject matter and concept; studying its sections starting with the morphological scale and its forms, analyzing verb classifications into abstract, true, augmented and weak; explaining the attribution of all verbs forms to pronounce addressing derivatives such as active participle, intensive form, passive participle, parabolic adjective, adverbs of time and place, comparative adjective, instrumental noun; also explaining infinitive forms and types; explaining the ascribed noun, diminutive noun, broken plural; and explaining phonological symptoms of weakening or substitution, giving special care to exercises and linking forms to semantics and generating forms to denote novelties. All this is done in an active learning environment, employing various assessment tools (presentations, tests, etc.).

ARAB 213 Grammar I  
Credit Hours: 3  
This course aims to provide students with the functional rules of some Arabic grammar sections; addressing the provisions of the nominal sentence, and supplementary substantives; explaining the provisions of the verb sentence, acquainting students with the provisions of the subject and subject of the predicate: describing the direct object and its association with to the subject in terms of precedence, announcement and/or omission; completing the other types of objects, identifying their synthetic forms; and finally explaining the sections of the semi-objects, such as circumstantial, differential, and exceptional. All this is done in an active learning environment, employing various assessment tools (presentations, tests, etc.).

ARAB 216 Grammar II  
Credit Hours: 3  
The course covers poetry of Pendants (“Mu’allaqat”), tramp and knight poets of the pre-Islamic era. It also addresses the romantic and political poetry during the Umayyad era. The focus in this course is on explaining the historical, conceptual characteristics achieved by poem in both the pre-Islamic and the Umayyad eras. All this is done in an active learning environment, employing various assessment tools (presentations, tests, etc.).

ARAB 217 Intro to Literature & Language  
Credit Hours: 3  
The course covers poetry of Pendants (“Mu’allaqat”), tramp and knight poets of the pre-Islamic era. It also addresses the romantic and political poetry during the Umayyad era. The focus in this course is on explaining the historical, conceptual characteristics achieved by poem in both the pre-Islamic and the Umayyad eras. All this is done in an active learning environment, employing various assessment tools (presentations, tests, etc.).
active learing atmosphere, employing various assessment tools (research papers, presentations, tests, etc.)

ARAB 223 Classical Arabic Poetry II Credit Hours: 3

This course aims to make the student address the changes that Arabic poetry had gone through during the Abbasid era and in the Arabized Maghreb (Northwest African) and Andalusia regions. Therefore, the focus is on the Origins ("Moualid") poetry, and explaining the contributions they’ve made to Arabic poetry. Focus is also placed on the successive authentication process by poets of the likes of Abu Tammam, Al-Bohtor, Al-Mutanabbi and Al-Mighrib. The course aims also to make the students aware of the contributions accomplished by Morocco and Andalusia poets; all this in an active learing atmosphere, employing various assessment tools (poetry readings, research papers, presentations, tests, etc.)

Prerequisite ARAB 221 OR ARAB 240

ARAB 224 Classical Arabic Prose Credit Hours: 3

The purpose of this course is to make the student make re-consider all knowledge they acquired on prose in the Arab culture, its development and inter-generation. Some examples are the news, the rhythmic prose "Maqama", the story, the biography, the letter, the public speech, etc... The applied part shall be based analyzing samples of those prose genres, studying them and identifying their intellectual and aesthetic characteristics. All this is done in an active learing atmosphere, employing various assessment tools (research papers, presentations, tests, etc.)

ARAB 261 Rethorics Credit Hours: 3

This course aims to know the three branches of Rhetoric science, recognize their aesthetic aspects, and develop the criteria of rhetoric and critical ability of the student. Based on this, the course covers the science of Eloquence with its different sections: simile, metaphors, antonomasia and metaphor; the science of Connotation and the science of Figurative speech (literal and conceptual). The course concludes with a poem or a Quranic verse for the students to apply the rhetorical arts which they have learned. All this is done in an active learing atmosphere, employing various assessment tools (applied presentations, tests, critical reading of rhetorical texts, etc.).

ARAB 262 Prosody and Metrics Credit Hours: 3

This course aims to enable the student to know the basic terminology in the prosody and rhyme, distinguish between the various poetry metrics, read poetic text correctly, and differentiate between meters and rhymes associated with the different poetic metrics. Accordingly, the course covers the various metrics of prosody in ancient poetry, stanzas and free-style poetry, by relying on sound analysis of prosody and its different components. All this is done in an active learing atmosphere, employing various assessment tools (including musical prosody) with a relative weight of 20%, research paper with a relative weight of 15%, presentations, tests, etc.)

ARAB 271 Persian Language I Credit Hours: 3

This course aims to enable the student to grasp the basics of Persian language on the level of the alphabet, phonetics, verbs and sentences and their formations, attached and detached pronouns, masculine and feminine, verb forms, definite and indefinite articles, adjectives, verbs, etc., as well as a number of Persian texts to apply these rules on. Students will get acquainted with a basic knowledge of grammatical forms and simple Persian sentences. All this is done in an active learing atmosphere, employing various assessment tools.

ARAB 273 Credit Hours: 3

This course aims to provide students with a general introduction to the principles of Hebrew language and its development among the Semitic languages, then explaining the general principles of writing, reading and speaking; by teaching the pronunciation and writing its letters, composition and structure of words, and building a simple sentence in Hebrew, in addition to teaching the students the most commonly used words to gain enough knowledge to conduct a basic dialogue in Hebrew, accompanied with various exercises: phonetic, textual and linguistic.

ARAB 319 Grammar II Credit Hours: 3

This course complements the functional grammar purpose of the previous course. It continues with studying of the provisions of prepositions and adverbs, providing suitable translations of modern applications for each. This is followed by studying the riders and their significations and provisions. After that, the students are introduced to new inflections, derivatives and verbal adverbs act as verbs, then explains the vocative representations. The course also includes the phrase styles of praise, slander, declaration, negation, reception, request, alerting, and commencement. The course ends with a collection of parsable and non-parsable phrase forms in a separate lesson. Course also includes the phrase styles of praise, slander, declaration, negation, reception, request, alerting, and commencement. The course ends with a collection of parsable and non-parsable phrase forms in a separate lesson. Course also includes the phrase styles of praise, slander, declaration, negation, reception, request, alerting, and commencement. The course ends with a collection of parsable and non-parsable phrase forms in a separate lesson.

ARAB 326 Literary Analysis Credit Hours: 3

The purpose of this course is to enable the students apply the modern methods acquired in the Modern Literary Criticism course, which dealt with the literary text analysis, and the modern methods, and the achieved contributions and failures of such methodologies. The analysis focuses on the historical, social, structural, psychological, semiotic, hermeneutical, and sociolinguistic approaches in analyzing texts. The student becomes familiar with the application of these approaches in the analysis of literary text with emphasis on the developed texts. All this is done in an active learing atmosphere, employing various assessment tools (applied presentations on the literary analysis with a relative weight of up to 10%), and analytical readings of literary texts (10%), then a research paper and tests, etc.)

ARAB 327 Readings in Literary Tradition Credit Hours: 3

The objective of this course is to make the student aware of the paradox of tradition and modernization in the Arabic culture. Therefore, the theoretical part of the course deals with the intellectual projects, whose owners re-explored their Arabic heritage in order to question and modernize it, by relying on Taha Hussein’s project, in both his books “In the pre-Islamic Poetry” and “The Wednesday Interview”, and Adonis, in his book “The Constant and The Variable”, etc. The practical part is to research, design theses and analyze some selected texts which embody the most important problems which faced the contemporary Arabic thought in regards to the paradox of tradition and modernization. All this is done in an active learing atmosphere, employing various assessment tools (applying modern theories in relation to literary tradition (20%), research paper (10%), presentations, tests, etc.)

ARAB 331 Classical Arabic Criticism Credit Hours: 3

This course aims to provide the student with a set of knowledge, skills and standards that enable him/her to develop his/her ability to think critically. The course starts with the most important sources of classical Arabic criticism, and its famous symbols since Al-jahjaz through Hazem Aljirjatani. It then moves to address important criticism issues, such as: the poetry column, the form, the content, poetry thefts, etc. The course also deals with these issues in the analysis and critique of the literary text. All this is done in an active learing atmosphere, employing various assessment tools (research paper, presentations and tests, etc.)

ARAB 351 Introduction to Linguistics Credit Hours: 3

This course aims to enable students to learn the basic principles in the science of linguistics, including the concept of linguistics, methods of linguistic research, and the levels of the general science of linguistics. The goal of the course is achieved by introducing students to the theoretical and applied aspects of the Arabic language. The course also aims at helping students acquire the skills of applying theories and programs of modern linguistic analysis over different language levels (phonetic level, phonological level, morphological level, syntax level, and meaning level). The course provides a variety of methods centered around the application activities for students and the use of modern methods such as educational and analytical phonetics programs; all this in an active learing atmosphere, employing various assessment tools (research paper, presentations and tests, etc.)

ARAB 352 Philology Credit Hours: 3

The course aims to enable students to understand the basic principles of the Arabic language, and its dialects and manifestations, which Arab linguists studied thoroughly, as well as the history of the Arabic
language and its Semitic roots, its relationship with the Holy Quran, ending with contemporary Arabic language issues. The course offers other approaches, centered around the students’ individual activities, such as training students on how to study the modern Arabic dialects and comparing them with the characteristics of old Arabic dialects, and training them on the skills of scientific research; and at the group level, engaging in activities such as participating in panel discussions and dialogues. Throughout the course there are ongoing assessments of student performance and activities, using various assessment tools, such as assignments, presentations, participation in classroom discussions and blackboard forums, testing and scientific research - all in an active learning atmosphere.

ARAB 354 Semantics Credit Hours: 3
The course aims to enable students to understand the modern semantic theories and know their roots in the Arabic heritage; study the levels of semantics, types of meaning and the evolution of semantics. It also aims to provide students with the skills to understand semantics and differentiate between different meanings. The course further seeks to introduce students to the Arabic dictionary and make them acquire necessary skills for searching for the meanings of words in various Arabic dictionaries. Different approaches are centered around student activities, such as participating in panel discussions and dialogues and scientific research, using various assessment tools such as assignments, presentations, participation in classroom discussions and blackboard forums, testing and scientific research - all in an active learning atmosphere.

ARAB 355 Applied Linguistics Credit Hours: 3
This course aims to enable students to learn the basic principles of Applied Linguistics, including the concept of applied linguistics, research methods, and applied linguistics issues. This goal is achieved through introducing students to the requirements of linguistic research in the areas of applied linguistics. It also seeks to provide the students with the skills of applying linguistic analysis to solve the problems of applied linguistics, in light of the experimental analytical studies (for example: acquiring native language, learning a second language, computers and the language). The course offers different approaches centered around the engagement of teacher and student during the lecture, and student applied activities, including field research inside and outside the campus, individual contributions inside the classroom, introducing modern methods such as machine translation software, and morphological analysis using the Internet.

Prerequisite
ARAB 351 OR ARAB 248

ARAB 372 Persian Language II Credit Hours: 3
This course aims to combine theory and application in the study of Persian texts, to help the student acquire the ability to produce a speech in the Persian language. The six weeks of the course content which sheds light on profound rules provided throughout the texts of selected masterpieces of Persian literature by: Mughani, Al-Fardowsi, Omar Al-Khayyam, and Saiid Shirazi, with special care for the methods of modern prose in particular with translation and commentary, which works towards improving the climate of individual and cooperative active learning.

Prerequisite
ARAB 271 OR ARAB 244

ARAB 375 Phonology Credit Hours: 3
This course aims to help the students acquire the skills of Arabic phonological analysis, as one of the levels of Linguistics, through the identification of physiological physical characteristics of sounds, and train the student on the International Phonetic Alphabet (IPA), and the classification Arabic phonemes in every literary type of articulation, then training them on international phonemic writing. The course also links the fields phonetics and phonology: studying phonemic changes in the context of theories of the basics of phonological analysis on the syllabic and para-syllabic levels, and the focus of this course is to highlight the importance of the level of phonology in linguistic analysis and its overlapping with other levels such as the morphological level (words) and the syntactic level (sentences). The course is conducted in an active learning atmosphere, focusing on the role of the student and the development of his/her applied skills, employing a variety of assignment tools such as: applied and analytical assignments, and field studies.

Prerequisite
ARAB 218 OR ARAB 346

ARAB 381 Modern & Cont. Arab. Poetry Credit Hours: 3
The purpose of this course is to help the students know about contemporary poetry practices, transformation paths, and their achievements. The theoretical part of the course will focus on the modern schools of poetry (romance, realism, and symbolism), and will also look into the styles of poetry (structured, free style, and prose). Furthermore, the theoretical part will study the relationship between these schools and poetry styles and classical traditional Arabic poetry, and how they drew from it or contradicted with it. Also, focus will be placed on the relationship of modern Arabic poetry with the achievements of the flags of western poets, especially the achievements of William Blake, Coleridge, Wordsworth, Shelley, Keats, and T.S. Eliot. As for the practical part, it will focus on the analysis of texts representing those schools and their achievements to assess the questions proposed to the Arabic poetic taste, and uncover their aesthetic achievements; all in this atmosphere of active learning, employing various assessment tools (modern and contemporary poetry readings [20%], research paper, presentations and tests, etc.)

Prerequisite
ARAB 221 OR ARAB 240

ARAB 382 Modern Narratives Credit Hours: 3
The purpose of this course is to acquaint students with the modern narrative arts which were developed in the contemporary Arabic culture. The theoretical part deals with the emergence of the arts of novel, story and romance, and the classification Arabic poetry in every literary type of articulation, then taking into account the role played by the acculturation with western cultures in the consolidation of such genres into the cultures of literature and literature. As for the practical part, focus will be on analyzing selected texts to reveal the phenomenon of selective quotation from the West, the importance of the movement of imitation that took place after that, as well as to highlight aspects of development and experimentation in the content of modern Arabic narratives. All this is done in an active learning atmosphere applying various assessment tools (research paper, presentations and tests, etc.)

Prerequisite
ARAB 224

ARAB 391 Readings in Arab Ling. Trad. Credit Hours: 3
This course is based on readings in the Arabic linguistic traditional heritage through selected texts representing the most important theoretical and age-inmates of the course in the linguistic studies; texts from the books of Sibawayh, Al-Mudarrasi, Ibn Jinni, Ibn Al-Sharjai, Ibn Hisham, Ibn Malik, and Ibn Rashed – profoundly addressing linguistic issues in a singular, excellent and pioneering fashion of any. This course is intended to create a linguistic bridge between the traditional and the modern, between the generative and the non-generative, between the level of texts, perceptions and methods, capitalizing on what the students acquired of linguistic knowledge, as well as knowing the scientific methodology which serves in researching in the sources, represented by the set of curricula employed in the study and analysis of sources, and taking into account the evolution in the field of literary curriculum. All this is done so as to constitute an active learning atmosphere, employing various assessment tools (research paper, presentations and tests, etc.)

ARAB 392 Arabic Syntax Credit Hours: 3
This course aims to introduce the principles of modern syntax, in particular the generative theory and how it addresses the Arabic language, with a focus on fundamentals of the subject, including: the ranking of words, grammatical statements, sentence structure, matching, parsing, and transformational processes, and how modern syntax deals with the sentence on the structure of the Arabic sentence, in addition to other changes such as training on the relationship of modern Arabic syntax, classification Arabic syntax according to points of view, and understanding the overarching of the modern Arabic syntax with the achievements of the flags of western poets, especially the achievements of William Blake, Coleridge, Wordsworth, Shelley, Keats, and T.S. Eliot. This course is conducted in an active learning atmosphere, employing various assessment tools (research paper, presentations and tests, etc.)

Prerequisite
ARAB 319 OR ARAB 246

ARAB 412 Readings Arab. Ling. Trad. Credit Hours: 3
This course is based on readings in the Arab Linguistic traditional heritage through selected texts representing the most important theoretical and age-inmates of the course in the linguistic studies; texts from the books of Sibawayh, Al-Mudarrasi, Ibn Jinni, Ibn Al-Sharjai, Ibn Hisham, Ibn Malik, and Ibn Rashed – profoundly addressing linguistic issues in a singular, excellent and pioneering fashion of any. This course is intended to create a linguistic bridge between the traditional and the modern, between the generative and the non-generative, between the level of texts, perceptions and methods, capitalizing on what the students acquired of linguistic knowledge, as well as knowing the scientific methodology which serves in researching in the sources, represented by the set of curricula employed in the study and analysis of sources, and taking into account the evolution in the field of literary curriculum. All this is done so as to constitute an active learning atmosphere, employing various assessment tools (research paper, presentations and tests, etc.)

Prerequisite
ARAB 319 OR ARAB 246
especially through school curricula: Sources of the linguistic studies, grammar, morphology, philology, and linguistics in an active learning atmosphere, employing various assessment tools (research paper, presentations and tests, etc.)

ARAB 419 Comparative Linguistics Credit Hours: 3
This course aims to enable the student to make practical comparisons between Semitic and non-Semitic languages, including the aspects of phonetics, syntax, morphology and semantics, in order to know the characteristics shared by natural languages, being specific to some languages, or linguistic groups, due to the inheritance relationships, or as a result of social, cultural, geographical or historical factors. The practical part includes each student comparing the Arabic language to another language, as well as depending on various research methodologies to assess student performance according to learning outcomes.

Prerequisite
ARAB 273

ARAB 434 Orientalism & its Criticism Credit Hours: 3
The objective of this course is to acquaint students with the movement of Orientalism, its scholars and symbols, and reveal the achievements of orientalists (examination of the collaboration between orientalists and the western colonial powers). The course will study Arabic literature and the Arab society from an orientalist perspective. The focus is on the achievements of the Orientalists, such as the English, French and German orientalism, so that the student may know about the various manifestations of Orientalist thought. The theoretical part also includes addressing the issue of criticism of Orientalism based on books by Edward Said in particular, so that students may realize the dimension of prejudice and discrimination during the deterioration of the Orientalist speech, and observe the ways orientalist infiltration: also researching some orientalist projects, whether English, German, French or Russian; all this in an active learning atmosphere, employing various assessment tools (research paper, presentations and tests, etc.)

ARAB 446 Sociology of Language Credit Hours: 3
This course aims at studying language in a social context. This includes: sociolinguistic interactions, sociolinguistic fields, and studying the outcomes of language-society relationships, such as: language and social interaction; bilingualism; the distinction between language and dialect; linguistic graduation; linguistic planning; the relationship between structure and language, and speaking and writing; linguistic borrowing. The course also addresses the reviewing of existing sociolinguistic differences in the Arab world and the Qatar society, and explaining how to read various types of graphs in Social Linguistics and ways of interpretation. This course reinforces students’ ability to apply sociolinguistic research skills in describing and analyzing the structure of the dialects in Qatar and the Gulf region. All this is done in an active learning atmosphere, employing various assessment tools (research paper, presentations and tests, etc.)

Prerequisite
ARAB 351 OR ARAB 248

ARAB 481 Modern Literary Criticism Credit Hours: 3
This course aims to familiarize students with the most important modern western criticism schools, and inform them of how contemporary Arab criticism benefited from those schools, and how it benefited from the heritage of traditional Arabic criticism, where the comparison will be historical and theoretical in the beginning. Then, the students will be trained to write a critical article and to complete applied research. The target is for the students to analyze literary works and study literary criticism. The practical part of the course addresses some literary texts and studies them in light of knowledge gained during theory-focused lessons. All this is done in an active learning atmosphere, employing various assessment tools (research paper, presentations and tests, etc.)

Prerequisite
ARAB 331 OR (ARAB 242 AND ARAB 445)

ARAB 482 Contemporary Gulf Literature Credit Hours: 3
This course aims to introduce contemporary literature in the Arabian Gulf region and identify the technical characteristics of its poetry and prose. The focus is to highlight the complementary relationships between this literature and its counterparts in other Arab countries, whether in terms of aesthetic and artistic values, or in terms of intellectual values and issues. The practical part of the course is based on the analysis of examples of contemporary literature in the Gulf region, in light of the modern criticism educators and the comparative historical methodology. All this is done in an active learning atmosphere, employing various assessment tools (research paper, presentations and tests, etc.)

ARAB 483 Comparative Literature Credit Hours: 3
This course aims to introduce comparative literature and acquaint the students with its history, schools, and research methodologies. Students use the knowledge gained in their Arabic literature classes, and compare the texts of Arabic literature with other Western literature (English, French or Persian), so they become aware of how these schools influence or are influenced by other literary schools. The practical part of the course addresses the issue of mutual influence and cultural and national acculturation between peoples, cultures and arts; all this in an active learning atmosphere, employing various assessment tools (research paper, presentations and tests, etc.)

ARAB 484 Sociology of Literature Credit Hours: 3
This course focuses on students to become experienced in the sociology of Literature, be able to read literature from a social perspective through acquainting them with the theoretical arguments and conceptual terminology and the outcomes of Western studies in this area, relying on the writings of Georg Lukatch, Lucien Goldman, Robert Escott, and others. The practical part of the course addresses some literary texts and studies them in light of knowledge gained during theory-focused lessons. All this is done in an active learning atmosphere, employing various assessment tools (research paper, presentations and tests, etc.)

ARAB 491 Topics in cont. Arab thought Credit Hours: 3
This course aims to make the student represents the major issues that preoccupied the contemporary Arabic theoretical and practical thought and criticism and its development and training in various topics according to student progress. Topics may include theoretical issues and or exercises and projects performed individually in which the student develops critical thinking and technical writing in architecture, and research skills.

ARCT 100 Independent Study Credit Hours: 1 OR 3
It also aims to activate the research skills in one branch of linguistic studies through the completion of a scientific research paper, which allows them to apply theoretical knowledge and academic conditions of design, processing, analysis, critique, documentation and indexing. All this is done in an active learning atmosphere, employing various assessment tools (research paper, presentations and tests, etc.)

ARCT 110 Graphic Communication I Credit Hours: 3
It also aims to activate the research skills in one branch of linguistic studies through the completion of a scientific research paper, which allows them to apply theoretical knowledge and academic conditions of design, processing, analysis, critique, documentation and indexing. All this is done in an active learning atmosphere, employing various assessment tools (research paper, presentations and tests, etc.)

ARAB 492 Capstone on Arabic Literature Credit Hours: 3
This course aims to help students benefit from their previous experience gained from literature courses (classical and modern literature, and criticism) in order for the students to deepen their expertise in literature in terms of knowledge and methodology on both levels, theoretical and practical. Also, it will help them have the ability to solve problems and move on from receiving knowledge to participation in its production. The course is keen to train students on the methodology of scientific research, and the preparation of a literature research paper shall serve as a graduation project, in which the student adheres to the conditions of graduation. The practical part is done in an active learning atmosphere, employing various assessment tools (research paper, presentations and tests, etc.)
and perspective techniques. A series of exercises is introduced to advance basic graphic skills and emphasize two- and three-dimensional thinking, including drawings of floor plans, cross sections, graphic diagrams; free-hand sketching; model making techniques.

**ARCT 111**  
**Graphic Communication II**  
Credit Hours: 3  
Introduction to procedures in computer-aided design and graphics used in producing 2D plans and sections, and three-dimensional models associated with architectural design and building construction; series of exercises develops skills in CAD drafting in 2D and 3D, and image processing; presentation packages are utilized for the production, management, rendering and presentation.

**Prerequisite**  
**ARCT 110**

**ARCT 120**  
**Intro to Surveying & Allied Arts**  
Credit Hours: 3  
Introduction to architecture and allied arts. It involves theory and exercise applications of basic design and visual principles, including architectural form, painting, graphics, sculpture, music, drama, visual culture. Topics include the ontology of architecture; Composition: design and elements of composition; Form: Gestalt perception, visual properties of form, regular and irregular. Space: definition, determination, design, organization of form & space. Photography: technical and architectural aspects. Proportion and Scale in architecture and art forms. Fundamentals of architecture: convenience, durability, aesthetics.

**ARCT 210**  
**Perspective, Shade and Shadow**  
Credit Hours: 3  
Introduction to perspective and definition of shade and shadow in architecture. Shadow of planes, Shadow of volumes: "Application of shade and shadow on the Architectural Drawings". Introduction to perspective. Drawing perspective with two vanishing points; Drawing perspective with two vanishing points and one central point; Perspective; exercises involve manual and computer applications.

**Prerequisite**  
**ARCT 110**

**ARCT 211**  
**Architectural Design Studio I**  
Credit Hours: 4  
Introduction to project design; simple but complete architectural design projects that place emphasis on programmatic aspects: space, order, context, and form; projects are hypothetical in nature in real sites; concept development; space definition; spatial requirements; adjacency requirements; contextual aspects.

**Prerequisite**  
**ARCT 120**  
AND  
**ARCT 110**

**ARCT 212**  
**Architectural Design Studio II**  
Credit Hours: 4  
Designing simple but complete architectural design projects; analytical thinking in design; response to site constraints; site design; architectural programming; materials; technology; explorations of functional, aesthetic, and structural aspects of buildings; developing a complete set of graphics for architectural design projects.

**Prerequisite**  
**ARCT 211**

**ARCT 220**  
**Climate and Architecture**  
Credit Hours: 3  
Introduction to the various forces that shape the human environment with a particular focus on ecological determinants; Intention, intention, and interaction of environmental considerations aimed toward sustainable environments; Various issues are studied, including climate (latitude and longitude), success of use of open spaces, indoor environmental qualities, as well as economic derivatives and human health matters; Natural Elements (air, sun and water) are examined as they interact with human needs within buildings or building complexes.

**ARCT 221**  
**History and Theory of Arch I**  
Credit Hours: 3  
Chronological development of architecture. The first part includes pre-history, Egyptian, Greek, Byzantine and the modern times; the development of structural systems, materials, construction and other building systems in the civilizations of the Middle and Near East; the path of the principal architectural thoughts and events which led to the development of major architectural and town planning theories; starting with Vitruvius "ten Books of Architecture", to the European Art Nouveau movement (1890-1910); and the early influence of reinforced concrete. The second part of the course includes evolution from the Early Christian period through the Gothic, to the Renaissance and Baroque periods; the Industrial Revolution to the Modern movement—and the theoretical foundations of 20th century trends in architecture; Concepts of architectural space, form and vocabulary, as well as major town planning concepts and theories from these periods are discussed and critically analyzed.

**Prerequisite**  
**ARCT 120**

**ARCT 222**  
**Hist & Theory of Arch II**  
Credit Hours: 3  
This course emphasizes chronological development of Islamic civilization and architecture from Umayyad in Syria and Iraq, through the classical and late classical periods in Spain, North Africa, the Middle East, including Mesopotamia, Fatimid, Ayyubid, Mamluk, and Ottoman architecture; influences of Islamic architecture on other architectural styles of the same periods and vice versa; Islamic art, geometry, calligraphy and variations in cultural attitudes in architectural styles; development and evaluation of contemporary architecture in Muslim communities is introduced.

**Prerequisite**  
**ARCT 120**

**ARCT 230**  
**Mat & Meth of Building Const I**  
Credit Hours: 3  
Introduction to the principles and fundamentals of building construction; the basic concepts of structural systems and foundations according to building loads and soil characteristics; the basic units of wall construction systems; the different methods of building insulation; the basic elements of buildings (Walls, Roofs and Floors); the use of different materials (Reinforced concrete, Wood and Steel) for both construction and finishing of these elements; the relation between the used materials and the related adequate construction system or systems.

**Prerequisite**  
**ARCT 111**

**ARCT 240**  
**Theory of Structures I**  
Credit Hours: 3  
Introduction to analysis of structures. Fundamental concepts and principles of mechanics and force systems; Centers of gravity and centers of mass; concepts of free-body-diagram; principles of equilibrium of particles and rigid bodies in two and three dimensions; external forces and concept of stress; stresses and strains; axial loading and axial deformation; Hook’s law, stresses and strain in plane stress; force calculations in shear and moment diagrams for beams and frames; deflection calculations; introduction to arches.

**Prerequisite**  
**ARCT 240**

**ARCT 242**  
**Surveying for Architects**  
Credit Hours: 3  
Introduction to surveying; measuring units, significant figures, direct distance measurements with tapes, tape corrections; electronic distance measurements; levels and leveling; longitudinal profiles and cross sections; contouring; area and volume computations; the theodolite and angular measurements; optical distance measurements; rectangular coordinates; traverse surveys and computations; mapping.

**Prerequisite**  
**MATH 102**

**ARCT 310**  
**Architectural Design Studio III**  
Credit Hours: 4  
Conducting design projects that involve complex functions and activities; introduction to systematic design procedures; complex architectural design projects that place emphasis on conceptual thinking and the analysis of contextual constraints, programmatic requirements, and problem solving processes in architectural design; projects attempt to simulate real life conditions with real-visitable sites; activities and objectives, problem definition.

**Prerequisite**  
**ARCT 212**

**ARCT 311**  
**Architectural Design Studio 4**  
Credit Hours: 4  
...
Continuation of Architectural Design Studio (3) with emphasis on addressing the relationship between concept and construction, selection of alternative solutions; evaluation; selection of solution and communication of project design; considerations of behavioral and cultural aspects, site investigation; building function and activities, construction materials and systems, environmental constraints and climatic influences are also addressed.

**Prerequisite**

ARCT 310

**ARCT 320** Design Methods and Theories

Credit Hours: 3

Introduction to design methods and theories since the fifties, as they apply to different design professions, design creativity, design management, pre-design studies, design processes, mandates of design processes set by professional organizations, the changing role of the architect, participatory architecture, architectural programming, design briefing, post occupancy evaluation.

**Prerequisite**

ARCT 221

**ARCT 330** Mills & Mhds of Bldg Const II

Credit Hours: 3

Continuation of elements and properties of construction materials and components; fabrication and construction technologies, methods, and processes of different types of materials. Labs place emphasis on developing construction drawings and details of small buildings. Lab assignments involve the utilization of Computer Aided Design and Drafting software packages.

**Prerequisite**

ARCT 230 ARCT 230

**ARCT 331** Envl. Control Syst 1 Accou& Lig

Credit Hours: 3

Appreciation and understanding of the physical requirements of buildings and the sanitary and HVAC systems involved. The first component involves water supply and drainage systems, fixtures, and private sewerage systems. The Second component involves the study of Heating, Ventilation and Air Conditioning (HVAC), central heating and cooling systems, distribution media, delivery devices, HVAC system characteristics; psychrometric use applications; system and equipment selection; duct design and layout. Both components address applications in different building scales and types. Attention is given to energy and resource conservation techniques and computer applications.

**Prerequisite**

ARCT 230 ARCT 230

**ARCT 333** Const.Drawing and Detailing

Credit Hours: 3

Training on mastering execution documents for large scale projects. Detailed execution drawings of floor plans, sections, and building facades; materials and finishes. Detailing of staircases, selected accessories, and outdoor complementary elements. Understanding of how a complete execution drawings can be developed in an integrated manner (building architectural elements and components/buliding systems).

**Prerequisite**

ARCT 330

**ARCT 340** Stru. & Arch. Form 1 Conc.Stru

Credit Hours: 2

Introduction to material properties involved in RC, behavior of RC sections, design of RC beams, slabs, columns, walls, and beams. Selection of suitable RC structural systems for different areas and purposes, detailing of RC structures, selection of appropriate system according to different area and span requirements and different building functions. A research project for a real-life RC structure is conducted coupled with site visits.

**Prerequisite**

ARCT 241

**ARCT 341** Stru.&Arch.2 Steel&Shell Stru.

Credit Hours: 2

Introduction to steel structures. The study of steel member behavior, design of tension members, compression members, steel beams, steel trusses, connections, plates, and bracing, analysis of combined RC and SS shell structures. Impact on developing architectural forms for relevant functions is addressed. A research project for a real life RC structure is conducted coupled with site visits.

**Prerequisite**

ARCT 241

**ARCT 350** Arts in Architecture

Credit Hours: 3

Acquaintance with arts that are involved in architectural works such as: all kinds of: mosaics, stained glass, fresco painting, colored reliefs and other techniques; research techniques of different ancient and modern architectural styles. Analysis and assessment of color utilization in building facades and building interiors. Series of exercise and project applications on the use of color in architecture.

**Prerequisite**

ARCT 120

**ARCT 351** Creativity and Innovation

Credit Hours: 3

Introduction to creativity and creative problem solving techniques, innovation strategies, collective thinking, Types of thinking; convergent, and divergent. Creative mental abilities, whole-brain thinking. Group projects, involve applications of brainstorming, synetics, and delphi techniques.

**Prerequisite**

ARCT 120

**ARCT 400** Practical Training 1

Credit Hours: 0

6-week compulsory practical training in the summer. This course does not count in the overall program credit hours. Students undertake professional training in an architectural office, consulting firm, construction company, or a relevant government agency. Upon completion, students submit portfolios, technical reports, and presentations on their training and the experience gained.

**Prerequisite**

ARCT 410 Architectural Design Studio 5

Credit Hours: 5

Introduction to community design theories and techniques, participatory design; collaborative design processes; community involvement in decision making; understanding community needs and resources; housing types; new understandings in neighborhood planning and design theories; gated communities; housing design; housing types; community support; design projects involve the use of community information in establishing collaborative design processes; and developing solutions based on community needs, preferences, and other contextual constraints.

**Prerequisite**

ARCT 311

**ARCT 411** Architectural Design Studio 6

Credit Hours: 5

Emphasis is placed on sustainable design and project delivery processes. A major project incorporating a number of factors influencing the full spectrum of built environments from the urban scale to the minor detail. Sustainability is the major driver of the project addressing different parameters including lighting, sound, energy conservation strategies, construction systems, structural aspects, and indoor environmental quality.

**Prerequisite**

ARCT 410

**ARCT 420** Environment-Behavior Studies

Credit Hours: 3

Appreciation and understanding of cultural, social, and psychological issues in architectural and urban design, and their value toward successful design practices. An overview and analysis of the literature of major scholars, researchers, and practitioners. Critical discussion of human behavior in different building types and urban environments. Intensive discussion of issues that pertain to ways in which information about socio-cultural factors and environment-behavior knowledge can be applied to design projects.

**Prerequisite**

ARCT 221

**ARCT 421** Intro. to Urban Design & Plan

Credit Hours: 3

Introduction to history of urban planning and design;
history and evolution of public spaces in different contexts, diversity, integration into buildings and landscape; urban and regional theory and analysis; smart growth; new urbanism; land use planning methods; urban engineering, infrastructure, transportation, and environmental planning and assessment; sustainable urban development; urban design issues.

Prerequisite ARCT 221
ARCT 422 Research Methods in Arch. Credit Hours: 3 Understanding and practicing theory and practical application in the design of interior spaces, and how different factors affect the integration of functional requirements into the spatial quality of a space, including daylighting, artificial lighting, furniture, wall design, color application, and human comfort. Exercise and small scale projects are integral components of this course.

Prerequisite ARCT 111
ARCT 451 Comp Applications in Arch advn Credit Hours: 3 Theories and projects relating to the new and future possibilities of the architectural design process, explored through the digital medium; concepts, metaphors, techniques and expressions available to the designer in the virtual world, are discussed and exemplified – the new applications and opportunities that the digital world has to offer “digital architects” of the future are explored, together with functional and aesthetic concepts that physical architecture may take on board.

Prerequisite ARCT 333
ARCT 452 Cont. Arch. in the Arab World Credit Hours: 3 Comprehensive understanding of latest developments in the architecture of the Arab world, with special focus on GCC countries; highlights of traditional local architecture; relationship to developments in the region and their global context; impact of trans-national practices; architectural practices in different countries; series of research projects on current undertakings and interviews with principals of regional architects.

Prerequisite ARCT 221
ARCT 453 Criticim in Architecture Credit Hours: 3 Introduction to the basics and fundamentals of architectural criticism; discussion of the act of creating architecture, and its ”what and why”; reviews of architectural movements, and the various directions of criticism they engendered. Emphasis is placed on the conceptions of criticism; different types and rhetoric of criticism are discussed in detail, with a view to developing the student’s ability to understand, analyze and interpret architectural works, as well as the meanings and intentions associated with them. Ideological and philosophical trends underlying selected architectural movements are cross-examined through selected examples.

Prerequisite ARCT 330
ARCT 500 Practical Training 2 Credit Hours: 0 6-week compulsory practical training in the summer. This does not count in the overall program credit hours. Students undertake professional training in an architectural office, consulting firm, construction company, or a relevant government agency. Upon completion, students submit portfolios, technical reports, and presentations on their training and the experience gained.

ARCT 510 Comprehensive Design Studio Credit Hours: 6 The comprehensive nature of architectural design is the driver of the studio; A complex and challenging architectural and/or urban design project that involves a real, visitable site, and possibly real clients. The project emphasizes program development; definition of client needs; comprehensive analysis of real urban context; introducing infill complex projects that serve a community; developing criteria for design and intervention strategies; generating alternatives; evaluation of alternatives; selecting and developing a final solution; considerations of project constraints and all factors (social, formal, and technical) involved in trade-off thinking processes.

Prerequisite ARCT 411
ARCT 511 Senior Proj. Prep. & Prog. Credit Hours: 2 Understanding and training in design management and the practice of pre-design studies. Emphasis is placed upon program development, response to contextual constraints; and programming. Emphasized in detail is developing a complete program and pre-design document, reaching a high degree of practicality and implementation.

Prerequisite ARCT 411
ARCT 512 Senior Project Credit Hours: 4 Amalgamating the different types of knowledge acquired in the previous courses into a comprehensive design project. Continuation of senior project programming, and transforming the program and pre-design knowledge into a complete project that illustrates a deep understanding of design as an intellectual endeavor, including a consideration of socio-cultural, formal, technical, and contextual aspects.

Prerequisite ARCT 511
ARCT 520 Landscape Architecture Credit Hours: 3 Introduction to the fundamentals of landscape architecture, study of the relationship between landscape and architectural design; design of exterior spaces as they relate to and complement building designs; theoretical and historical background of landscape design, site analysis, environmental issues, and plant materials; landscape elements and classification; landform, plant life, microclimate; use and land preservation, elements and methods of landscape design; study of aesthetic and functional values.

Prerequisite ARCT 221
ARCT 530 Construction & Project Mana. Credit Hours: 3 Introduction to the construction industry; local and international; project life cycle and organization; project contract types and delivery methods; project scope, procurement management, project communications, management and leadership; soft skills and emotional intelligence, project risk management, project HSE (health, safety, and environment) management, project budgeting and financial management, project finance management, computer applications in construction management.

Prerequisite ARCT 333
ARCT 222
Methods according to selected cases. Approaches to conserve historic buildings, discussion on building techniques, and the relevant compatible technical conservation matters including traditional and modern building materials. The course also touches on children’s art. Comparative analysis of samples of artworks from different cultures and different ages will be conducted for finding out similarities and differences. Students will also complete research papers, in which they explore different approaches to art criticism. Students will also engage in analyzing different artworks, as well as visiting museums and art exhibitions and submit reports about the activities.

ARTE 422
Criticism & Art Appreciation
Credit Hours: 2
This course offers an overview of art philosophy of different civilizations from ancient times to modern times. Through this course, independent studies in all major areas of the arts can be assigned by the subject teacher to the student who applies for this kind of independent study. This independent study is only offered to address the need of students who need a certain number of credit hours to complete the total number of hours required for graduation. Credit hours for this study ranges between one hour and three hours.

ARTE 434
Capstone Course
Credit Hours: 3
This course offers opportunities for students to apply the knowledge and skills they acquired throughout their course of study in the various aspects of the program. The study is based on conducting a project designed and carried out by the student and supervised by a faculty member. Through the research, a solution to some of the problems surrounding art and art education are tackled theoretically and practically. Suggestions to remedy these problems should be offered. The project should reflect the knowledge and skills the student acquired in the program.

Prerequisite
ARTE 124 AND ARTE 220 AND ARTE 223 AND ARTE 225 AND ARTE 325 AND ARTE 121

BIOL 101
Biology I
Credit Hours: 3
Biology I is the first introductory course for biology majors and minors, covering important biological concepts, including biochemistry, cell structure and function, photosynthesis, cellular respiration, cell reproduction, genetics, and biotechnology. The laboratory introduces basic laboratory skills such as safety, microscope use, measurement, and reinforces concepts discussed in lecture. There are two hours of lecture and three hours of laboratory per week.

Prerequisite
(( ENGL 040 OR ENGL C002 OR Total for Integrated Core 400) AND (ENGL 041 OR ENGL R002 OR ESL Reading Skills 100) AND (ENGL 042 OR ENGL W002 OR APL for Writing Workshop 225)) OR (Total for Integrated Core 400 AND ESL Reading Skills 100 AND ESL Language Use 100) OR TOEFL Inst Testing Prog 500 OR TOEFL Internet-based Test 061 OR TOEFL Computer-based Test 173 OR Int Lang Test Syt-SYLT 5.5 OR ENGL 004 OR ENGL 111 OR ENGL 250 OR ENGL 201 OR ENGL 202

BIOL 102
Biology II
Credit Hours: 3
This course is designed to enable the students achieving a good knowledge about the biodiversity and principles of classification of living organisms which started from the most microscopic (micro-) organisms like Bacteria and Prototaxa passing through Algae and Fungi up to Plants and Animals. The course covers the biological interactions between living organisms including the beneficial relations like symbiosis up to the most harmful one such as parasitism.

Prerequisite
BIOL 101

BIOL 103
Freshman Seminar
Credit Hours: 0
The course is given in the first semester of the freshman year. Faculty involved in the program, as well as invited external speakers (including stakeholders), provide "snapshot" general overview presentations of selected topics of relevance to the core curriculum. The course is attended by students and all faculty associated with the program. As such, this course provides a forum, very early in the program, for students, faculty, and stakeholders to interact. In addition, students have the opportunity to develop a broad holistic appreciation of the scope of the program and its relevance, before they become involved with other coursework.

BIOL 110
Human Biology
Credit Hours: 3
An introductory course to human biology, it covers principles of structure and function of human body; nutrition & digestion, the circulatory system, the blood, the immune system, respiration, the urinary system, the nervous system, the sense, the skeleton & muscles, the endocrine system. Principles of human genetics, human development and aging. These systems are approached through an understanding of their functioning in the healthful condition followed by examples of the common disease conditions resulting from their dysfunction.

BIOL 211
Cell Biology
Credit Hours: 3

Prerequisite
BIOL 101

BIOL 212
Genetics
Credit Hours: 3

Prerequisite
BIOL 101

BIOL 221
Basic Ecology
Credit Hours: 3
Principles of ecosystems. Energy flow in ecological

Prerequisite
BIOL 102

BIOL 241 Microbiology
Credit Hours: 3
This course gives an overview of the aspects of history and classification of microorganisms (bacteria, fungi, algae, and viruses). Functional anatomy of prokaryotic, Microbial growth; nutrition and metabolism, and genetics. It also covers medical, environmental, and industrial microbiology. Culture media and microorganisms; Growth and control of microorganisms.

Prerequisite
BIOL 101

BIOL 310 Molecular Cell Biology
Credit Hours: 3
This course focuses on current knowledge of cell structure and function at the cellular, sub-cellular and molecular levels. Topics include: molecular components of cell membranes; membrane-bound organelles; microtubules; cytoskeletal components; extracellular matrix; membrane transport; electrical properties of cells; intracellular compartments and protein sorting; intracellular vesicular traffic; cell communication; signaling and transport; transcriptional and post-transcriptional proteolysis; cell cycle and programmed cell death (apoptosis); cancer. A laboratory course in cell biology, taken concurrently with the lecture course, emphasizes protein chemistry, gel electrophoresis, Western blotting, immunohistochemistry, and histochemistry. This course provides students with the fundamental knowledge of functional anatomy and physiology. Focus will be on the organization of the mammalian body in a comprehensive way, and focuses on understanding the structure and function of organs and systems with an emphasis on the underlying biological and biochemical principles of organ function. The laboratory sessions provide experiences in physiological testing and data analysis skills that apply to the concepts and topics covered in lectures.

Prerequisite
BIOL 102 AND CHEM 351

BIOL 399 Internship
Credit Hours: 0
Should be completed during the senior year with departmental approval. Typically they are of 6 weeks duration and involve on-site training and work with a stakeholder.

BIOL 412 Genetic Engn & DNA Tech
Credit Hours: 3
This course focuses on how biotechnology is revolutionizing medicine, agriculture and biomedical, pharmaceutical, environmental and food industries. Specific topics such as recombinant DNA technology, plant genetic engineering, gene therapy, forensic DNA analysis, patents and technology transfer related to the human genome project will be discussed. Projects include DNA isolation and purification, gel electrophoresis, and prokaryotic and eukaryotic cell transfection.

Prerequisite
BIOL 311

BIOL 421 Ecophysiology
Credit Hours: 3

Prerequisite
BIOL 362 AND BIOL 351

BIOL 422 Envr Mgmt & Conservation
Credit Hours: 3

Prerequisite
BIOL 221

BIOL 433 Monitoring and Toxicology
Credit Hours: 3
It studies environmental monitoring and assessment with emphasis on the Gulf region; principles in the design of monitoring systems; use of monitoring data in assessing the consequences of natural resource management and pollution risks; monitoring systems designed to estimate exposure both at the individual and population levels; development of monitoring systems for management of renewable natural resources in agriculture, fisheries and coastal and desert ecosystems.

Prerequisite
BIOL 310

BIOL 442 Biotechnology
Credit Hours: 3

Prerequisite
BIOL 311

BIOL 443 Biotechnology & Bioremediation
Credit Hours: 3
This course covers the use of organisms to alleviate environmental problems. Topics include the biology of the organisms and their bioremediation processes. Plants act to absorb and concentrate heavy metals from soils whereas micro-organisms, invertebrates and plants degrade organic toxins and remove excess nutrients from soils, substrates and water. The processes include extraction, absorption, concentration, and degradation of contaminants. Examples cross- reference courses involving engineering principles such as the design and use of immobilized bacteria in trickling filter design for sewage gas purification.

Prerequisite
BIOL 310

BIOL 444 Immunology
Credit Hours: 3

Prerequisite
BIOL 362

BIOL 451 Cell & Tissue Culture
Credit Hours: 3
Cell and tissue culture are major tools for biotechnology applications, testing and improvement. These are an essential step in the production of genetically modified organisms (GMOs) which have received much national and international attention in recent years, interfacing with society in ways that few would have imagined a decade ago. As the scientific capabilities to engineer plants, animals, insects, and microorganisms for applications that could pose great benefits to society grow rapidly, so do the number of potential challenges and concerns. Many issues associated with cell and tissue culture pervade other areas of scientific pursuit, and there seem to be more commonalities than differences. In light of this, this course concentrates on the different uses of tissue culture both in animal and plant studies; the establishment and requirements of both plant tissue culture lab and animal tissue culture lab. The basic concepts of totipotency, organized growth, growth regulators types and functions, and the different factors that affect the success of the culture were rather emphasized in the theoretical part. In the laboratory part the establishment, maintenance and subculture of different types of plant cell tissue culture were a major task. Besides this the effect of different growth regulators types, concentrations and combinations were also experimental.

Prerequisite
( BIOL 361 AND BIOL 362) OR BIOL 310

BIOL 452 Molecular Analytical Tech.
Credit Hours: 3
It uses a combination of lecture and hands-on laboratory exercises to acquaint students with advanced laboratory skills. Students are taught the essentials of how to maintain a detailed laboratory notebook. The course is writing intensive and implements Excel spreadsheets. Topics include multitasking, hands-on experience with analytical equipment, strategies that can be used in experimental design, troubleshooting experiments and outcomes.

Prerequisite
BIOL 310

BIOL 493 Special Topics
Credit Hours: 3
Course content is not definite and subjected to change each time the course is offered, according to area of interest of faculty and students.

BIOL 496 Research Project
Credit Hours: 3
It is undertaken by students in their senior year after completing 90 hours of credit. Research projects are selected with departmental approval and may involve one or more supervisors. Students submit a research thesis that documents their work.

BIOL 497 Research Project
Credit Hours: 0 OR 3
Research Project

BIOM 211 Human Anatomy
Credit Hours: 3
Body organization, anatomical position and terminology, skeletal system, skeleton, joints, muscles, digestive system, cardiovascular system and lymphatic system, respiratory system, urinary system, female and male genital systems, endocrine system, nervous system. Surface anatomy of the organs, X-ray, ultrasound and applied anatomy.

Prerequisite
BIOL 101

BIOM 212 Human Histology
Credit Hours: 3
Different types of microscope, the cell, epithelial tissue, connective tissue proper, cartilage, bone, muscular tissue, blood, vascular system, lymphatic system, lymphatic tissue, digestive system, respiratory system, urinary system, lymphatic system, central nervous system, special sense organ and endocrine system.

Prerequisite
BIOL 101

BIOM 213 Human Embryology
Credit Hours: 3
Gastogenesis, ovulation, fertilization, implantation, bilaminar germ disc, trilaminar germ disc, embryonic development, fetal period, fetal membranes, placenta and congenital malformations. Assisted reproductive techniques, development of urogenital, cardiovascular and gastrointestinal systems.

Prerequisite
BIOM 211

BIOM 215 Human Physiology
Credit Hours: 3
Physiology is the study of the normal functions of body systems within the human body. The major aim of this course is to acquire an improved understanding of the mechanisms of different body tissues and organs. The cross talk between different organs and systems will be discussed in terms of the integration of all body systems and homeostasis. In Human Physiology BIOM-215 you will study cell physiology, cardiovascular, respiratory, renal, endocrine and gastrointestinal related systems to accomplish homeostasis.

Prerequisite
BIOL 101

BIOM 217 Human Genetics
Credit Hours: 3
Tissue culture techniques. Chromosome preparation from different tissue.

Prerequisite BIOL 101

BIOM 243 Introduction to Pathology
Credit Hours: 2
The basic pathology of immunity and how the immune system can cause disease. The principles and mechanism of pathological processes (cell injury, necrosis, wound healing, acute and chronic inflammations). Basic clinical immunology by looking at clinical assessment of the patient presenting with an immunological complaint.

BIOM 301 Lab Mgmt, Safety & Qlty Ctrl
Credit Hours: 3
This course is designed as a team taught course to introduce students with clinical laboratory regulations, including quality control, laboratory safety, basic safe use of equipment, and quality assurance. Basic knowledge of communication, quality management, laboratory accreditation and audit; and analysis of laboratory organizations. Communication skills, education methods and training; decision making; groups and teams. Total quality management, laboratory accreditation and audit; efficiency and effectiveness. Health, safety and welfare of the workforce; work safety legislation, hazards of the workplace; management of equipment, and quality assurance. Basic knowledge of international accreditation, certification and licensure program. The content covers educational methodologies, support for students who were pre 2008 graduates of the programs. This is a professor guided course designed for special learning and teamwork in an atmosphere of active learning.

Prerequisite BIOL 241

BIOM 322 Medical Microbiology
Credit Hours: 4
Relationships between the hosts’ and pathogens’ epidemiological aspects, and mode of transmission of microbial diseases. Zoonotic diseases. Microbial epidemiological aspects, and mode of transmission. The different methods and techniques applied for the diagnosis of pathogenic microorganisms isolated from different clinical specimens. With emphasis on both normal and transient flora of the human body. Methods of isolation and identification techniques used to isolate and identify bacteria. Morphological, biological, and biochemical characteristics of bacteria commonly isolated from clinical specimens.

Prerequisite BIOL 322

BIOM 323 Medical Parasitology
Credit Hours: 3

Prerequisite BIOL 241

BIOM 324 Medical Virology
Credit Hours: 2
This course is a comprehensive presentation of all the families of human viruses. Course coverage will focus almost entirely on viruses that cause serious infections with specific emphasis on pathogenesis mechanisms of virus infection and virus-cell interactions, at cellular and molecular level. Classes include lectures, as well as reading and discussion of primary papers cover in topics such as virus entry, viral DNA or RNA replication, transcription, translation, virus assembly and release, persistence, latency and lytic cycle. Practical assessment will include classification by the use of basic techniques, such as basic cell culture, serology, and modern molecular tests such as RT-PCR and multiplex PCR.

Prerequisite BIOM 243

BIOM 346 Clinical Chemistry
Credit Hours: 4
This is a lecture and laboratory course covering most areas of Clinical Chemistry. General principles of chemical analysis and clinical utility are reviewed. Analyses performed in the clinical chemistry laboratory are grouped according to function or organ system. Major groupings include carbohydrates, proteins, renal testing, liver/cardiac function, enzymeology, and electrolytes/acid-base balance. The principles of testing methods and the physiological and biochemical changes that occur in disease states are covered. General laboratory principles, laboratory safety, laboratory quality assessment will also be applied to the course.

Prerequisite CHEM 351

BIOM 401 Special Topics
Credit Hours: 1
This is a professor guided course designed for special studies students who were pre 2008 graduates of the program. The content covers educational methodologies, international accreditation, certification and licensure concepts and practices. Other course content is included to satisfy coverage of required NAACLS content.

Prerequisite BIOM 402

BIOM 402 Special Topics
Credit Hours: 2
This professor guided course is designed to introduce students to the principles of critical thinking and to provide instructional and learning opportunities for them to apply critical thinking strategies to given specified content areas within biomedical science. It incorporates self-directed learning and teamwork in an atmosphere of active learning.

Prerequisite BIOM 401

BIOM 411 Forensic Science
Credit Hours: 2
The course includes the legal importance of forensic medicine and its contribution to justice. It includes pathology and criminology as a science, as well as all the aspects related to death and the cadaver. Traumatology, including criminal injuries, different types of wounds, traffic accidents, burns, and the concept of the forensic victim. Medical aspects of forensic science such as histopathology, histology and histochemical techniques. In addition, post-mortem examination gives tools and in depth attention so that the students may distinguish the juridical causes of death. Sexology and legal obstetrics are highlighted due to their frequency in the practice of forensic medicine.

Prerequisite BIOM 418

BIOM 418 Pathology & Toxicology
Credit Hours: 2
This course, which is a continuation of clinical chemistry, is designed to introduce the students to more advanced topics in clinical chemistry, including aspects of therapeutic drug monitoring TDM in clinical chemistry medicine, and the most popular drugs tested now a days, toxicity and poisoning with specific agents. It will also covers porphyrias and disease, clinical chemistry of the geriatric patient, clinical chemistry of the paediatric patient, clinical nutrition including vitamins and minerals. Instrumentation in clinical chemistry laboratory will be also covered.

Prerequisite BIOM 212

BIOM 446 Urine Analysis and Body Fluids
Credit Hours: 2
This course emphasizes the collection and analysis of urine, fecal specimens, vaginal secretions, and other body fluids such as cerebrospinal, synovial, seminal, amniotic, pleural, pericardial, and peritoneal fluids.

Prerequisite BIOM 215

BIOM 451 Hematology & Hemostasis
Credit Hours: 4

Prerequisite BIOM 215
methods of evaluating and monitoring the presence and progression of disease, operation of instrumentation, following quality assurance practices, and using appropriate safety measures.

**Prerequisite**  
BIOM 451

**BIOM 495**  
Clinical Practice in Immunohematology  
Credit Hours: 3  
Supervised clinical practice in the clinical immunohematology laboratory, providing experience in procedures and methods of evaluating and monitoring the presence and progression of disease, operation of instrumentation, observation of quality assurance practices, and use of appropriate safety measures.

**Prerequisite**  
BIOM 452

**BIOM 496**  
Professional Development  
Credit Hours: 3  
This is a capstone course designed to enhance problem-solving skills by integrating multiple biomedical laboratory disciplines utilizing literature reviews to assess case studies. The course focuses on integration and synthesis of knowledge acquired in previous courses. Competencies to be reinforced include leadership, critical thinking, communication, analytical skills, ethical issues, professionalism, and the skills to work in a healthcare setting.

**Prerequisite**  
CHEM 101 AND CHEM 103

**CHEM 211**  
Organic Chemistry I  
**Credit Hours:** 4  
CHEM 211 is the first course in the two-term undergraduate organic chemistry lecture sequence that includes CHEM 212 which is designed for students majoring in chemistry. The structures and properties of Aliphatic hydrocarbons will be presented, and their industrial importance will be discussed. The concept of stereoisomerism will be introduced in the context of organic chemistry (i.e., tetrahedral carbon). Aromatic hydrocarbons & Alkyl Halides, will be introduced and their reactions will be covered in depth.

**Prerequisite**  
CHEM 101 AND CHEM 103
CHEM 212 Organic Chemistry II
Credit Hours: 3
Prerequisite CHEM 211

CHEM 213 Exper. Organic Chemistry
Credit Hours: 1
This laboratory is vital supplement to the lecture course, CHEM 212. It introduces methods of synthesis and analysis of pertinent organic reaction types. Students receive hands-on experience in the experimental methods of organic chemistry. Many organic chemical reactions are examined in the context of their reaction mechanisms. This lab gives the student adequate training in the use of organic lab techniques and report writing.
Prerequisite CHEM 212

CHEM 221 Inorganic Chemistry I
Credit Hours: 4
This is the first inorganic chemistry course and covers the following basic topics. The structure of the atom. The structure of atoms and bonding theories, structure of solids and their analysis. The three major bonding theories include VSEPR, VB and MO theory. Other topics include structures of simple solids, oxidation and reduction, dissociation constant of an acid Phase diagrams – Cooling curves – Two components – three components systems.

CHEM 222 Experimental Inorganic Chem
Credit Hours: 1
Synthesis and characterization of complex compounds. cis-trans isomerism. Stabilization of unusual oxidation states by ligands. Magnetic and spectroscopic properties of complex compounds.
Prerequisite CHEM 221

CHEM 231 Analytical Chemistry I
Credit Hours: 2
Introduction to analytical chemistry - statistical evaluation of analytical data - aqueous and buffered solution - chemical equilibrium - titration methods of analysis (neutralization reactions, precipitation titrations, redox and complexometric titrations) - gravimetric methods of analysis - spectrophotometry.

CHEM 234 Exper. Analytical Chemistry
Credit Hours: 1
Gravimetric analysis – Neutralization reactions – Precipitation reactions – Oxidation and reduction reactions – Complexometry.
Prerequisite CHEM 103 AND CHEM 231

CHEM 239 Physical Chemistry with lab
Credit Hours: 4
This course provides pre-pharmacy students with an overview of physical chemistry and its application in the life sciences. The course includes both lectures and lab work. Throughout the course, theory will be complemented by examples from life science and molecular biology.
Prerequisite CHEM 101 AND CHEM 103

CHEM 241 Physical Chemistry I
Credit Hours: 3
The kinetic model of gases; molecular interaction, the Vander Waals equation. Chemical thermodynamics; The first law, work and energy. The second law, entropy and free energy. Free energy, chemical potential, effect of temperature and pressure on free energy changes. Trouton’s and Richard’s rules - Free energy changes and equilibrium constant, effect of temperature on the equilibrium constant. Absolute entropy- the third law. Phase diagrams and the phase rule: phase stability and phase transition, the physical liquid surface; surface tension, curved surface, and capillary action.
Prerequisite CHEM 101 AND CHEM 103

CHEM 242 Experimental Physical Chem I
Credit Hours: 2

CHEM 243 Principles of Env Chemistry
Credit Hours: 3
This course provides an understanding of the source, fate, and reactivity of compounds in natural and polluted environments. Emphasis is placed on the environmental implications of energy utilization, and on the chemistry of the atmosphere, hydrosphere, and lithosphere in the region.
Prerequisite CHEM 101 AND CHEM 103

CHEM 310 Organic Chemistry III
Credit Hours: 3
Fused polynuclear aromatic hydrocarbons – nonbenzenoid aromatic hydrocarbons – dyes (nomenclature, classification and examples) – heterocyclic compounds (five and six membered ring compounds) – other heterocyclic compounds (e.g. indole, imidazole, coumarins, and flavones) – chemotherapy (sulphonamides, some antibiotics and antimalarial compounds).

CHEM 311 Organic Chemistry IV
Credit Hours: 2
Spectroscopic techniques (infrared, ultraviolet, nuclear magnetic resonance and mass spectrometry) in identification of organic compounds (problems and answers).
Prerequisite CHEM 102 AND CHEM 242

CHEM 314 Inorganic Chemistry III
Credit Hours: 3
This course focuses on transition metal compounds and their reaction mechanisms. The topics covered will include ligand substitution reactions, rates of ligand substitution, inner and outer sphere mechanism, photochemical and related reactions, electron transfers in metal-metal bonded systems, organometallic compounds containing different types of ligands; ligand substitution reactions, redox reactions, bond metathesis, insertion and elimination reactions; homogeneous and heterogeneous. It will also focus on chemistry of metal-block elements and their coordination chemistry, material properties, electronic spectra and properties of some elements.

CHEM 315 Environmental Chemistry
Credit Hours: 2
This course introduces students to major topics of current interest in environmental chemistry. Topics covered will include the origins of chemical contaminants in the environment, atmospheric chemistry, the greenhouse effect, the ozone layer, aquatic chemistry, aquatic chemistry and water pollution. A survey of major analytical techniques and some persistent chemicals of environmental concern is also included.
Prerequisite CHEM 221 AND CHEM 211

CHEM 320 Inorganic Chemistry II
Credit Hours: 3
This course describes the physical and chemical properties of the main group and transition metals in the periodic table. Its descriptive nature will allow the students to explore the rich tapestry of periodic patterns and trends; systematically study the chemistry of main group elements and demonstrate the diversity, intricacy, and fascinating nature of inorganic chemistry. The final part of this course will cover the chemistry of d-block metals, their electronic structure and complexes and their properties.

CHEM 321 Principles of Env Chemistry
Credit Hours: 3
This course provides an understanding of the source, fate, and reactivity of compounds in natural and polluted environments. Emphasis is placed on the environmental implications of energy utilization, and on the chemistry of the atmosphere, hydrosphere, and lithosphere in the region.
Prerequisite CHEM 101 AND CHEM 103

CHEM 322 Inorganic Chemistry III
Credit Hours: 3
This course focuses on transition metal compounds and their reaction mechanisms. The topics covered will include ligand substitution reactions, rates of ligand substitution, inner and outer sphere mechanism, photochemical and related reactions, electron transfers in metal-metal bonded systems, organometallic compounds containing different types of ligands; ligand substitution reactions, redox reactions, bond metathesis, insertion and elimination reactions; homogeneous and heterogeneous. It will also focus on chemistry of metal-block elements and their coordination chemistry, material properties, electronic spectra and properties of some elements.
Prerequisite
CHEM 210 OR CHEM 221

CHEM 331
Analytical Chemistry II
Credit Hours: 3
Introduction to modern methods of instrumental analysis: separation techniques (gas, and high liquid chromatography); spectrophotometric methods (atomic and molecular absorption spectroscopy); and electrochemical methods including polarography, potentiometry, and conductometry. Experimental: Practical application of instruments in analysis including potentiometry, polarography, conductometry and spectrophotometry and gas and liquid chromatography.

Prerequisite
CHEM 231 AND CHEM 234

CHEM 341
Physical Chemistry II
Credit Hours: 3
Chemistry: kinetics; reaction orders, first and second and third orders; reactions approaching equilibrium; parallel first order reactions; consecutive elementary reactions; the Michaelis-Menten mechanism, the Lindemann-Hinshelwood mechanism; theories of the rate constant (collision theory and activated complex theory) – equilibrium electrochemistry ion activity, electrochemical cells – dynamic electrochemistry; – processes at solid surfaces – surface growth – surface composition – surface sensitive techniques – the adsorption processes.

Prerequisite
CHEM 241 OR CHEM 286

CHEM 342
Physical Chemistry III
Credit Hours: 3
This course will introduce students to computational chemistry and its basis in quantum chemistry. Quantum chemistry principles, including the Schroedinger equation and its resulting wave functions for electrons in atoms and molecules, are presented in way useful in computational chemistry, introducing wave functions and basis sets from semi-empirical, ab initio, Hartree-Fock and SCF methods. Activities such as building molecules, calculating their energies, minimizing the structures, as well as calculating their vibrational frequencies will be conducted during the course. The following software will be used to achieve our goal: Gaussian, Gauss View, Spartan and molecular modeling. Also, different kinds and levels of calculations as HF, RHF, AM1, PM3 and others will be demonstrated, applying different basis sets.

Prerequisite
CHEM 241

CHEM 351
Basic Biochemistry
Credit Hours: 3
Amino acids and peptides, protein structure, protein function, hemoglobin and myoglobin, enzymes (classification – mechanism of action and kinetics - regulation), vitamins and nutrition, carbohydrates structure, Glycoconjugates, lipids classification, lipid structure, lipids in the structure of biological membranes, lipids in cell signaling, structure of nucleic acids, structure of RNA and DNA, DNA synthesis, RNA synthesis, protein synthesis, gene expression.

Prerequisite
CHEM 211

CHEM 352
Experimental Biochemistry
Credit Hours: 1
Quantitative determination of D-glucose by means of anthrone or glucose oxidase. Quantitative determination of amino acids by ninhydrin. Quantitative determination of proteins by Folin-lowry method, Bio-Flad assay of proteins, enzyme assays and factors affecting enzyme activity, acid value of simple lipids, effect of lipase on simple lipids, enzyme-linked immunosorbent assay (ELISA), polymerase chain reaction (PCR).

Prerequisite
CHEM 351

CHEM 375
Industrial Chemistry I
Credit Hours: 3
Introduction to industrial chemistry, resources of chemical materials, research and development, worldwide chemical industry impact, law and economic regulations, energy, chemical industry impact on environment, industrial catalysis, cements.

Prerequisite
CHEM 241

CHEM 391
Advanced Biochemistry
Credit Hours: 3
In this course a special focus will be set on common biochemistry principles. How the genetic information is stored, mechanism of DNA binding and modification by proteins and enzymes. Gene regulation, thermodynamics and kinetics of ligand binding to proteins, enzyme catalysis, metabolism and description of energy production will be studied. The lab part will be continuation of the basic biochemistry laboratory with individual research projects. Emphasis is on building the skills and intellectual framework necessary to work in biotechnology field.

Prerequisite
CHEM 390

CHEM 442
Exper. Physical Chemistry II
Credit Hours: 2
Introduction and safety. Chemical kinetics: kinetics of catalytic decomposition of H2O2 (the rate constant, order, activation energy), alkaline hydrolysis of ester-second order reaction (Conductometric determination). Kinetics of reduction and blue shift by acetic acid ( Spectrophotometric method). Electrode reactions (cyclic voltammetry).

Surface Chemistry: adsorption isotherms and fluorometry.

Prerequisite
CHEM 341

CHEM 461
Special Topics
Credit Hours: 3
Advanced level of study in selected areas of various disciplines. Topics such as: photochemistry, photophysics, corrosion, laser chemistry, bioinorganic chemistry, polymers, organometallic, and natural products.

CHEM 462
Research Project
Credit Hours: 3
This course gives students the opportunity to obtain, develop, and demonstrate and acquire the necessary research skills in chemistry. Most of the research topics are interdisciplinary, so crossing boundaries across other disciplines. One-to-one supervision will be provided from the faculty members to perform chemical research in a professional environment. The students are required to conduct literature review and to carry out an experimental work, before writing a mini thesis and making an oral presentation.

CHME 201
Intro to Chemical Engin I
Credit Hours: 3
The basic principles and techniques used for calculation of material balances in chemical engineering processes are introduced. The material covered involves fundamentals of material balance calculations, including reactive and non-reactive systems, formulation and solution of increasingly complex chemical engineering process problems and familiarization with physical properties and behavior of ideal and real gases.

Prerequisite
MATH 101 AND PHYS 191 AND CHEM 101

CHME 202
Intro to Chemical Engin II
Credit Hours: 3
Vapor-liquid equilibrium calculations for systems containing one condensable component and for ideal multi-component systems, including bubble and dew point calculations. Forms of energy, the first law of thermodynamics, thermodynamic data, energy balance equation for closed and opened systems, simultaneous instantaneous energy balances. Balances on non-reactive systems that involve heating and cooling, compression and decompression, phase changes, mixing of liquids, and dissolving of gasses and solids in liquids. Balances on reactive systems using either the heat of reaction method or the heat of formation method.

Prerequisite
CHME 201

CHME 212
Chemical Engin Therm I
Credit Hours: 3

Prerequisite
CHME 201

CHME 213
Fluid Mechanics
Credit Hours: 3
Prerequisite

CHME 201 AND MATH 102

CHME 311
Heat Transfer
Credit Hours: 3

Prerequisite

CHME 202 AND CHME 213 AND GENG 300

CHME 312
Chemical Engin Thermodynamics
Credit Hours: 3

Prerequisite

CHME 212 AND CHEM 341

CHME 313
Mass Transfer I
Credit Hours: 3

Prerequisite

CHME 311 AND CHME 312

CHME 314
Chemical Reaction Engin
Credit Hours: 3
The rate of reaction, interpretation of kinetic data, batch reactors, continuous flow reactors, design equations for batch and flow reactors, reactors in series, the reaction rate constant, the reaction order, elementary, non-

elementary, reversible, irreversible and multiple reactions, reactor sizing, volume change with reactions, isothermal and non-isothermal reactor design, pressure drop in reactors, unsteady state operation of reactors.

Prerequisite

CHME 202 AND CHME 312

CHME 315
Mass Transfer II
Credit Hours: 3
Distillation, liquid-liquid extraction and leaching. Humidification. Crystallization.

Prerequisite

CHME 313 AND CHME 324

CHME 316
Chemical Engin Lab I
Credit Hours: 1

Prerequisite

ENG 203 AND CHME 213

CHME 325
Chemical Engin Lab II
Credit Hours: 1
Experiments in mass transfer and separation processes: drying, humidification, gas absorption, molecular diffusion in gases, batch and fractional distillation. One experiment on fixed and fluidized bed.

Prerequisite

CHME 324 AND CHME 313

CHME 361
Petroleum and Gas Technologies
Credit Hours: 3
Refinery feedstock and crude oil properties, refinery products, refining processes and crude distillation, refined products blending, Natural gas processing and LNG technology. Primary petrochemical feedstock such as methane and ethylene. Petrochemical processes for the production of bulk petrochemical products such as ammonia, methanol and polyethylene. Clean fuels and Gas to Liquids technology. Emphasis will be put on environmental impact assessment of such technologies.

Prerequisite

CHEM 275

CHME 399
Practical Training
Credit Hours: 3
Supervised eight-week training period at an approved engineering facility (consulting, contracting, industrial, government), intended to provide students with hands-on experience at the workplace. Evaluation is based on: Daily performance, supervisor's input, student's report, and a short presentation.

CHME 411
Process Modeling & Simulation
Credit Hours: 3

Prerequisite

CHME 314 AND CHME 315 AND MATH 217

CHME 421
Plant Design I
Credit Hours: 3
First design course in a series of two. Introduction to process design via industrial projects. Process route selection, based on relevant and realistic constraints. Development of process flow diagrams (PFDs), utilizing Simulation software and exposure to industrial-safety, and P&IDs.

Prerequisite

CHME 315

CHME 422
Plant Design II
Credit Hours: 3
Second design course, focused on optimization of industrial processes using advanced integration design tools; detailed design of all major process units of a manufacturing process and economic & profitability analysis. Using computer aided software (e.g. excel and ASPEN simulation).

Prerequisite

CHME 421 AND GENG 360

CHME 423
Process Control
Credit Hours: 3
Introduction to practical and theoretical aspects of process control, process modeling, transfer functions, dynamics of open-loop systems, Control Station, feedback control system, instruments of control system, control laws (P, PI, PD and PID), block diagrams, dynamics of closed-loop systems. Stability analysis, root-locus analysis, tuning of controllers, frequency analysis, Bode stability, cascade control, feed-forward control, other control schemes.

Prerequisite

CHME 311 AND MATH 217

CHME 426
Chemical Engin. Laboratory III
Credit Hours: 1
Experiments in process control, reaction kinetics and membrane separation. Batch and flow reactors used for generating rate data. Includes the use of analog and digital control equipment.

Prerequisite

CHME 423 AND CHME 314

CHME 431
Petroleum Refining Process
Credit Hours: 3
Origin of crude oil, introduction to exploration, drilling and production, refinery feedstock, refinery products, crude oil distillation, fluid catalytic cracking, hydrodrying, catalytic reforming, isomerization, polymerization, product blending. light end unit and other supporting processes, laboratory experiments in petroleum characterization.

Prerequisite

CHEM 211

CHME 433
Petrochemical Technology
Credit Hours: 3

Prerequisite

CHEM 211

CHME 435
Polymer Engineering
Credit Hours: 3
This course provides the basic building blocks of polymer science and engineering: the structure and properties of polymers; polymerization reactions; polymer solutions and molecular weight characterization; viscoelasticity and rubber elasticity; polymer processing and rheology; mechanical properties; and some special topics.
Prerequisite
CHEM 211 AND CHME 213

CHME 444
Aluminum Production Technology
Credit Hours: 3
The present course will give a comprehensive overview of the process of industrial aluminum production. Topics covered range from theory and principles of electrolysis, electroyte chemistry, thermodynamic considerations, and heat balance of electrolysis cells. The important concept of current efficiency will be discussed thoroughly. The two main challenges that the world’s aluminum industry will face in the years to come, energy and the environment, will be given great attention. Lecture sessions are complemented by weekly tutorials, giving students the opportunity to practice their knowledge, and to gain extensive experience in problem solving. Upon completion of the course the students will have gained a strong foundation for further studies of aluminum production and for a potential career in the aluminum industry.

Prerequisite
CHEM 101 AND CHEM 103

CHME 445
Desalination
Credit Hours: 3
Industrial desalination processes such as multistage flash, multiple effect distillation, reverse osmosis, and electrodialysis. Technical and economic analysis of desalination processes. Water quality and analysis.

Prerequisite
CHME 311

CHME 451
Intro to Gas Engineering
Credit Hours: 3

Prerequisite
CHME 312 AND CHEM 211

CHME 454
Natural Gas Treatment
Credit Hours: 3
The course presents an overview of the natural gas industry, from wellhead to marketplace, with emphasis on gas plant operations. Physical, chemical and thermodynamic properties of natural gas. Phase behavior of natural gas. Water hydrocarbon systems. Pipelines. Major processes for gas compression, dehydration, acid gas removal and sulfur recovery. Cryogenic Processes. LNG production. Storage and transportation. Field trips to LNG plants are also involved.

Prerequisite
CHME 312

CHME 462
Pollution Control
Credit Hours: 3
Characteristics and composition of industrial wastes, sampling and methods of analysis of industrial wastes, and remedial measures for treatment, in-plant conservation, material, reclamation, recycling and disposal, NOX, SOX and global warming. Membrane separation, waste identification, water treatment.

Prerequisite
CHEM 102

CHME 463
Water Processes
Credit Hours: 3
Water resources, basic chemistry of saline water, modeling and analysis of single effect desalination combined with mechanical vapor compression and thermal vapor compression, modeling of multiple effect desalination (MED), modeling of single and multistage desalination processes. Reverse osmosis. Introduction to other membrane processes, Pre- and post-treatment operations.

Prerequisite
CHME 213

CHME 466
Special Top in Chem Engin I
Credit Hours: 3
Selected topics from specialized areas of chemical engineering, aimed at broadening or deepening students’ knowledge and skills. The specific contents of the course are published one semester in advance.

Prerequisite
CHEM 211 AND CHME 213

CHME 467
Special Top in Chem Engin II
Credit Hours: 3
Selected topics from specialized areas of chemical engineering, aimed at broadening or deepening students’ knowledge and skills. The specific contents of the course are published one semester in advance.

Prerequisite
CHEM 211 AND CHME 213

CHME 470
Fund of Petroleum Engineering
Credit Hours: 3
The course covers different disciplines in petroleum engineering of the upstream operation, wellbore flow performance, production behavior and reservoir management. The course incorporates external lecturers from industry, to talk about one of the major petroleum engineering disciplines, as well as a field trip to see the drilling operations and the well facilities. In addition, a term project is included, to cover different disciplines of Petroleum Engineering.

Prerequisite
CHME 213 AND CHME 312

CHME 486
Corrosion Engineering
Credit Hours: 3
Study of corrosion mechanisms and techniques used in prevention and control. Electrochemistry and its application to corrosion. Materials selection for different environments.

Prerequisite
CHEM 102

CHME 495
Graduation Project I
Credit Hours: 1
An in-depth study of a project of defined chemical engineering significance, based on laboratory- or computer-oriented investigations. Students work in close accord with a faculty member on a project of mutual interest. Written reports and oral presentations are required for evaluation by the department. This course gives students the opportunity to demonstrate their ability to work under minimum supervision.

CHME 496
Graduation Project II
Credit Hours: 3
Continuation of CHME 495 Graduation Project I: “An in-depth study of a project of defined chemical engineering significance, based on laboratory- or computer-oriented investigations. Students work in close accord with a faculty member on a project of mutual interest. Written reports and oral presentations are required for evaluation by the department. This course gives students the opportunity to demonstrate their ability to work under minimum supervision.”

Prerequisite
CHEM 495

CHME 497
Independent Study
Credit Hours: 1 OR 3
This technical elective is to be offered to a small number of students because of laboratory or other resource constraints, and is aimed at enhancing students’ independent learning of specialized aspects of chemical engineering.

Prerequisite
CHEM 211 AND CHME 312

CMPE 261
Digital Logic Design
Credit Hours: 3
Introduction to digital logic circuit design, combinational and sequential circuits. TTL logic family; combinatorial logic design; logic minimization techniques; logic implementation techniques for ROM, RAM, EPR, and PLDs. flip flops; sequential logic design, state diagrams, logic minimization; registers and counters; synthesis and analysis of sequential machines.

Prerequisite
CMPS 205 AND CMPE 262

CMPE 262
Digital Logic Des Laboratory
Credit Hours: 1
Selected experiments examining logic devices and circuits, in a final design project to accompany and complement the lecture course.

Prerequisite
CMPE 261

CMPE 263
Computer Architecture & Org I
Credit Hours: 3
Higher-level concepts in computer architecture. Data representation; classic components of a computer; performance measures for computers; CPU types, design, organization, instruction-level description; processor programming, register transfer languages, addressing modes, assembly language; main and cache memory, caching techniques.

Prerequisite
CMPS 205 AND CMPS 151
CMPE 363 Computer Architecture & Org II
Credit Hours: 3
Fundamentals of computer organization. Central processing unit organization; hardwired control; arithmetic logic unit design and implementation; micro-programmed control, interrupts; instruction cycle and format, addressing modes; buses, pipelining, instruction-level parallelism; input/output system design; external storage.
Prerequisite CMPE 261 AND CMPE 262

CMPE 364 Microprocessor Based Des
Credit Hours: 3
Fundamentals and evolution of microprocessors. Architectural techniques, a family microprocessor, assembly language and its development tools; data transfer; arithmetic logic, program control instructions; interrupt organization; memory interface and address decoding; input/output, programmable peripheral, serial input/output interfacing; universal synchronous and asynchronous receivers and transmitters; hardware interrupts, basic interrupt interface, programmable interrupt controllers; analog-digital converters; 32-bit programming.
Prerequisite CMPE 363 AND CMPE 365

CMPE 365 Microprocessor Based Des Lab
Credit Hours: 1
Experiments to emphasize the practice of assembly language programming, data acquisition software techniques, and hardware for data acquisition systems.
Prerequisite CMPE 364

CMPE 370 Computer Engineering Practicum
Credit Hours: 3
Introduction to hands-on broad hardware techniques and specific hardware skills useful for computer engineers. Circuit construction through soldering; personal computer hardware troubleshooting; project implementation using digital signal processing kits or advanced controller kits; embedded reverse engineering approaches; discrete component-based analog digital circuits; programmable hardware designs.
Prerequisite CMPE 261 AND CMPE 262 AND ELEC 201 AND ELEC 231

CMPE 399 Practical Training
Credit Hours: 3
Supervised eight week training period at an institution (Business, industrial, government), intended to provide students with hands-on experience at the workplace. Evaluation is based on: Daily performance, supervisor’s input, student’s report, and a short presentation.
Prerequisite CMPE 262 AND CMPE 261

CMPE 455 Data Comm & Comp Networks I
Credit Hours: 3
Fundamental concepts of communication systems such as the Internet, local area, metropolitan and wide area networks. Layered network architecture; transmission technology; data link layer protocols, broadcast networks and their protocols, flow and error control; concepts of the network layer and routing algorithms; services and protocols of the transport layer; examples of application layer protocols.
Prerequisite CMPS 303 AND CMPE 263 AND CMPE 456

CMPE 456 Data Comm & Comp Networks I Lab
Credit Hours: 1
Practical skills and hands-on experience needed to build small-to-medium size networks. Network simulation tools, installing, configuring, troubleshooting and monitoring computer networks and their components, protocols and services.
Prerequisite CMPE 365

CMPE 457 Data Comm & Comp Networks II
Credit Hours: 3
Builds upon fundamental knowledge and concepts addressed in the “Data Communications and Computer Networks I” course. Signal modulation, coding techniques; wireless transmission; radio frequency, multiplexing, circuit and packet switching, medium access control; interior and exterior routing protocols, autonomous systems, link state routing; IPv6 address space, transmission methods from IPv4 to IPv6; network and internet security, VPN, cryptography, encryption schemes, firewalls, intrusion detection; congestion control, quality of service; protocols for network management; network socket programming.
Prerequisite CMPE 455

CMPE 465 Performance Evaluation
Credit Hours: 3
Introduction to performance analysis and evaluation. Modeling and evaluation of computer systems; Markov processes and chains; single and network queues; concurrent process modeling.
Prerequisite GENG 200

CMPE 467 Artificial Neural Networks
Credit Hours: 3
Introduction to theory, architecture, and applications of artificial neural systems; Supervised, unsupervised, and reinforcement learning in single and multiple layer neural networks; Associative neural memory recording and retrieval dynamics; Self-organizing maps; Learning capacity and generalization; Hardware implementations.
Prerequisite MATH 217

CMPE 471 Mod Computer Organization
Credit Hours: 3
Modulation and coding of communication signals; modulation, equalization for communication signals. Audio signal filtering; Fourier transform, z-transforms; signal sampling and estimation. Analog to digital conversion methods; sampling theory, discrete Fourier transform, fast Fourier transform, z-transform; signal sampling and reconstruction; digital filters, correlation, spectral estimation.
Prerequisite ELEC 351 AND CMPE 478

CMPE 472 Performance Evaluation
Credit Hours: 3
Overview of continuous and discrete signal processing with hands-on algorithmic implementation of various signal transforms and other operators for generalized applications. Analog to digital conversion methods; sampling theory, discrete Fourier transform, fast Fourier transform, z-transforms; signal sampling and reconstruction; digital filters, correlation, spectral estimation.
Prerequisite ELEC 351 AND CMPE 478

CMPE 474 Digital Signal Processing Lab
Credit Hours: 1
Practical implementation of digital signal processing algorithms using standard kits. Audio signal filtering; spectral analysis of signals, de-convolution of composite signals, spectral shifting of audio signals; channel equalization for communication signals.
Prerequisite CMPE 476

CMPE 475 Artificial Intelligence
Credit Hours: 3
Selected topics in the field of computer engineering addressing new trends and practical issues.
Prerequisite CMPE 363

CMPE 476 Digital Signal Processing
Credit Hours: 3
Overview of continuous and discrete signal processing with hands-on algorithmic implementation of various signal transforms and other operators for generalized applications. Analog to digital conversion methods; sampling theory, discrete Fourier transform, fast Fourier transform, z-transforms; signal sampling and reconstruction; digital filters, correlation, spectral estimation.
Prerequisite CMPE 476

CMPE 478 Computer Vision
Credit Hours: 3
Introduction to the basic concepts and techniques
of computer vision focusing on reconstruction of 3D models from 2D still images and video. Image formation, segmentation; camera calibration, motion and object recognition; use of image processing tools.

**Prerequisite**

CMPS 251

**CMPE 481**

Model and Sim of Digital Sys

**Credit Hours:** 3

Advanced concepts in digital logic design using language tools to describe digital logic systems at different levels of abstraction and simulation. Programmable logic devices; designing with field programmable gate arrays; synchronous and asynchronous sequential logic circuits.

**Prerequisite**

CMPE 261

**CMPE 482**

Multimedia Networks

**Credit Hours:** 3

Analysis of main characteristics and challenges of multimedia delivery over IP networks with the analysis of main quality of service mechanisms used at each layer to allow for differentiated services with the ability to explain the main characteristics of IEEE standards for LANs and MANs. Multimedia applications; video and audio streaming; quality of service fundamentals and mechanisms; IEEE standards for wireless local, metropolitan, personal, and 3G area networks.

**Prerequisite**

CMPS 151  AND  CMPS 252

**CMPS 251**

Object-Oriented Programming-Ib

**Credit Hours:** 1

Practical experience with object-oriented programming, covering object-oriented features illustrated by various types of problem-solving techniques. Motivations to the programming environment; coding quality and professionalism; using object-oriented features of a programming language to code solutions to various problems; exploring additional language features; debugging, testing and evaluation of programs.

**Prerequisite**

CMPS 251 OR CMPE 265

**CMPS 303**

Data Structures

**Credit Hours:** 3

Static and dynamic presentation, implementation, analysis, and applications of abstract data types (ADT) for linear and non-linear data structures and fundamental algorithms for software system development. ADTs; algorithm efficiency; searching; sorting; recursion; lists, stacks, queues, trees, graphs; hashing and file management.

**Prerequisite**

CMPS 251 OR CMPE 265

**CMPS 307**

Intro. to Proj. Manag. & Entr.

**Credit Hours:** 2

Introduction to entrepreneurship, and elements of business management with emphasis on managing software and information and communication technologies projects. Concepts of project management; project plan development, progress tracking, staffing, leadership, conflict resolution; organization; costs, risks, control; entrepreneurship, basics of owning and operating a business, business plan development for starting and financing a small business.

**CMPS 311**

Object-Oriented Modeling

**Credit Hours:** 3

Modeling techniques and skills used in the stages of an object-oriented life cycle development process and hands-on modeling experience using a common modeling language. An overview of object-oriented development processes; motivations to object-oriented modeling methods and notations; class, state, and interaction modeling; system conception; domain and application analysis; system and class design; implementation modeling and design patterns; object-oriented languages.
code generation and reverse engineering.

Prerequisite
CMPS 251

CMPS 321
Information Systems
Credit Hours: 3
Fundamentals, features, and characteristics of various types of information systems, theories, and methodologies. Types of information systems; capturing, representation, organization, and transformation of information; impact of computer-based information systems on business organizations; decision-support systems, knowledge-based systems; organization and management of information systems; information security, privacy, integrity; protection of information in organizations, future trends.

Prerequisite
CMPS 251

CMPS 323
Des & Analy of Algorithms
Credit Hours: 3
Analysis, design, and efficiency of algorithms illustrated by a comprehensive exposure to fundamental algorithms and various adopted techniques to solve different types of problems. Analysis of sorting, searching, and other algorithms; designing algorithms using techniques for problem-solving such as greedy methods, divide-and-conquer, backtracking, dynamic programming, and branch-and-bound techniques; complexity of algorithms.

Prerequisite
CMPS 320 AND CMPS 205

CMPS 346
Compilers & Formal Language
Credit Hours: 3
Theoretical models of computation, their capabilities, and limitations. The study of formal languages (regular and context-free languages); computational models for generating or recognizing these languages (finite-state automata, context free grammars, push-down automata, and Turing machines); introduction to decidability; halting problem, NP-completeness, and reducibility.

Prerequisite
CMPS 206

CMPS 351
Fund of Database Systems
Credit Hours: 3
Fundamentals of database design, modeling, architectures, and query notations and languages with a focus on relational databases. Motivations to the concepts of database systems including components, types and architectures, data modeling (diagrams, models, and schemas); relational data model, mapping conceptual schema to a relational schema; relational algebra, relational calculus, SQL; normalization.

Prerequisite
CMPS 251 AND CMPS 352

CMPS 352
Fund of Database Systems Lab
Credit Hours: 1
Practical experience on database system development for different types of requirements. Familiarity of a DBMS architecture and features; practical modeling, design, analysis, and implementation of database systems with various requirements; querying and reporting; embedding SQL in programming applications.

Prerequisite
CMPS 351

CMPS 356
Sftwr Devlpmt of Enterprise App
Credit Hours: 3
Introduction to issues, architectures, and technologies for designing and developing multi-tiered enterprise applications. Emphasis on object-oriented relational mapping, multitreading, user interface development, application integration patterns, and approaches, internet technology standards such as markup languages, web services, and application security; hands-on project using state-of-the-art software architectures, open source application frameworks, middleware, and development tools to design, develop, test, and secure an enterprise application.

Prerequisite
CMPS 351

CMPS 372
Computer Architecture
Credit Hours: 0 OR 3
Review of the Von Neumann Architecture; Cache memory; I/O communication and buses; Pipelining; Risc Processors; Instruction level parallelism and Superscalar processors; Parallel processors.

Lab Session: Use of a Hardware Description language in circuits design.

Prerequisite
CMPS 322

CMPS 373
Computer Graphics
Credit Hours: 3
Fundamental concepts of computer graphics illustrated with programming applications using a graphics package or tool. Graphics systems types, architectures and graphical objects; applications of computer graphics; graphics programmer’s interface; designing and rendering 2D and 3D objects (geometric transformations, viewing, shading, discrete techniques, buffers and mappings).

Prerequisite
CMPS 303

CMPS 393
Modeling & Simulation
Credit Hours: 3
Fundamentals of studying systems by modeling and simulation focusing on developing discrete-event simulations. Reasons for simulation, basic simulation modeling; systems modeling; developing discrete-event simulations; queueing models; random number generators, generating random varieties; analysis of simulation data; verification and validation of simulation models.

Prerequisite
CMPS 303 AND GENG 200

CMPS 399
Practical Training
Credit Hours: 3
Such programs provide a one or two week training period at an institution (Business, industrial, government), intended to provide students with hands-on experience at the workplace. Evaluation is based on: Daily performance, supervisor’s input, student’s report, and a short presentation.

CMPS 405
Operating Systems
Credit Hours: 3
Fundamental concepts of operating system design and implementation. Overview of operating system components; concurrency; mutual exclusion and synchronization; implementation of processes; deadlock; scheduling algorithms; memory management; input/output and file systems; protection and security.

Prerequisite
CMPS 303 AND CMPE 263 AND CMPS 406

CMPS 406
Operating Systems Laboratory
Credit Hours: 1
Practical experience with an operating system's components, associated services, and implementations. Operating system structure, components, services, shell commands; process management, inter-process communications; problem solving with concurrency, mutual exclusion, synchronization; implementations of CPU scheduling algorithms, memory placement algorithms; protection and security.

Prerequisite
CMPS 405

CMPS 411
Software Engineering
Credit Hours: 3
Fundamental principles of classical and modern software engineering theory and practice. Taxonomy of software systems; software project management, processes, requirements engineering, design, architectures, user interface design; software development methods; verification, validation, testing; software management (people, cost, quality, process improvement, configuration); emerging technologies.

Prerequisite
CMPS 303

CMPS 433
Multimedia Systems
Credit Hours: 3
Comprehensive study of various types of multimedia objects and their characteristics, presentation formats, and associated algorithms. Illustration by development and manipulation of multimedia objects using supported tools; taxonomy of multimedia objects; authoring formats, and text, images, 2D and 3D graphics, audio, video; data compression; multimedia content design, human-computer interaction; and multimedia application development.

Prerequisite
CMPS 303

CMPS 445
Compiler Construction
Credit Hours: 0 OR 3
Theoretical and technical aspects needed to construct compilers and interpreters illustrated by a comprehensive study of the design and implementation for a mini language. Fundamentals of compilers and interpreters; syntax, static and lexical analysis; handling user-defined types and type checking; context analysis; code generation and optimization;
Prerequisite
CMPS 303

CMPS 451 Database Management Systems
Credit Hours: 3
Management of operations of internal components and advanced features of database systems and a study of various database types. Transaction management, concurrency control; security; optimization; object-oriented and distributed databases; data warehousing and mining; current developments in database technology; integration of databases to internet environments.

Prerequisite
CMPS 351

CMPS 453 Data mining
Credit Hours: 3
Principles concepts of data mining techniques and their practical application in pattern recognition and knowledge discovery from large data sets. Fundamental strategies and methodologies of various classification, clustering, association rules extraction algorithms applied on tabular data sets. Hands-on experience with a variety of different data mining tools.

Prerequisite
GENG 200 AND CMPS 351

CMPS 454 Wireless Network &Applications
Credit Hours: 3
Fundamentals of radio transmission including an overview of wireless networks, cellular networks, wireless LANs, Bluetooth, satellite systems, WIMAX, and LTE. Multiplexing, circuit and packet switching; fundamentals of evolution, medium access control, network architecture, mobility applications, handheld devices, service delivery platforms.

Prerequisite
CMPE 456

CMPS 465 Parallel & Distributed Systems
Credit Hours: 3
Principal concepts of parallel and distributed systems. Shared and distribute memory architectures; parallel and distributed programming paradigms; inter-process communication and message passing; distributed memory and file systems; process and data migration; load balancing; fault tolerance; security and protection.

Prerequisite
CMPS 405

CMPS 466 Information Retrieval
Credit Hours: 3
Fundamental aspects of classical information retrieval techniques, strategies, and future trends. Web information storage and presentation schemes; web-based and online retrieval systems; search strategies; indexing, evaluation, ranking of search results; search engines, web crawling, meta-searchers; centralized and distributed architectures; semi-structured data models; merging technology; query languages for semi-structured data.

Prerequisite
CMPS 303

CMPS 485 Computer Security
Credit Hours: 3
Comprehensive study of information security fundamentals. Information assurance, risks, vulnerabilities; access control, protection methods; encryption, authentication; host-based, network-based, and physical security; legal and ethical implications.

Prerequisite
CMPE 455

CMPS 493 Senior Project I
Credit Hours: 1
The first of a two-course sequence incorporating conceptual knowledge and practical skills learned throughout the computer science program and applying them through teamwork for a substantial project. Team members experience different roles and gain an increasing range of diverse technical skills in all phases of the project development; course focus on the later stages of project work.

Prerequisite
CMPS 405

CMPS 497 Special Topics in Computing
Credit Hours: 3
Selected topics in computing concerning content not normally covered in the formal curriculum. Topics vary.

CMPS 499 Senior Project II
Credit Hours: 3
The second of a two-course sequence incorporating conceptual knowledge and practical skills learned throughout the computer science program and applying them through teamwork for a substantial project. Team members experience different roles and gain an increasing range of diverse technical skills in all phases of the project development; course focus on the later stages of project work.

Prerequisite
CMPS 493

CVEN 210 Properties & Testing of Materi
Credit Hours: 3
Composition and properties of Portland Cements, special cements, gyypsum, lime, and asphaltic materials. Properties and testing of aggregates and concrete. Concrete mix design. Use of stones, blocks and bricks. Ferrous and nonferrous metals. Wood. The laboratory component includes: tests on Portland cement, sieve analysis and grading of aggregate, specific gravity and absorption of coarse aggregate. Los Angeles abrasion test, slump test, measurement of air content, concrete mix, crushing of concrete cubes, split-tension test, rebound hammer and PUNDIT.

Prerequisite
CHEM 101 AND CHEM 103

CVEN 211 Engineering Mechanics
Credit Hours: 3

Prerequisite
MATH 102

MATH 102

CVEN 212 Fluid Mechanics
Credit Hours: 3
Elementary mechanics of fluids with emphasis on hydrostatics, control volume analysis of flowing fluids using kinematics, continuity, energy, and momentum principals; simulta, pipe flow.

Prerequisite
PHYS 181 AND PHYS 192 AND (CVEN 211 OR CVEN 213)

CVEN 213 Statics
Credit Hours: 3

Prerequisite
MATH 102

CVEN 214 Strength of Materials
Credit Hours: 3

Prerequisite
CVEN 213

CVEN 220 Analysis of Structures
Credit Hours: 3
Arch and cables. Introduction to indeterminate structures.

Prerequisite
CVEN 213 OR CVEN 211

CVEN 230 Geotechnical Engineering
Credit Hours: 3
Soil Composition, soil-water system, classification of soil, permeability and seepage, stress distribution in soil, compressibility of soil, settlement analysis for shallow foundations, shear strength of soil. The laboratory component includes: visual inspection, sieve and hydrometer analyses, Atterberg limits, constant and final head permeability, compaction, field density, one-dimensional consolidation, direct shear, triaxial, and unconfined compression testing.

Prerequisite
CVEN 213 OR CVEN 211

CVEN 270 Surveying for Construction
Credit Hours: 3
Introduction, surveying measurements, Vertical Distance Measurements: different types of levels, leveling procedure and computations, profiles and cross sections, Horizontal Distance Measurements (EDM): Taping, Electronic Distance Measurements. Angular Measurements, Theodolites and total stations. Traverse Computations and adjustment - determination of areas and volumes. Setting out of construction works. Basic computer-aided surveying.

Prerequisite
MATH 101
CVEN 320
Des of Reinforced Conc Mon
Credit Hours: 3
Introduction to limit-state design of reinforced concrete structures, analysis and load combinations acting on reinforced concrete structures. Analysis and design of beams (regular and irregular), one-way and two-way solid slabs on beams (using direct design method). Design of stair systems. Bond and development length of reinforcement. Deflections and cracks. Design and analysis of columns subject to axial load and bending.

Prerequisite
CVEN 220 AND ( CVEN 214 OR CVEN 211)

CVEN 321 Analy of Indeterminate Sturct
Credit Hours: 3
Analysis of indeterminate structures by the force method, slope deflection, and moment distribution. Deflection of indeterminate structures. Introduction to matrix analysis of structures: trusses, beams, and frames.

Prerequisite
CVEN 220

CVEN 330 Foundation Engineering I
Credit Hours: 3
Subsurface investigation (planning, boreholes, open and test pits, soil sampling, rock cores, visual inspection, SPT, CPT, vane shear test, plate load test, field permeability test, geophysical test methods, exploration report), soil bearing capacity for shallow foundations, lateral earth pressure, stability of retaining walls, introduction to deep foundations, computer application.

Prerequisite
CVEN 220 AND ( CVEN 214 OR CVEN 211)

CVEN 340 Analy of Des of Hydraulic Sys
Credit Hours: 3
Applications of fluid mechanics to engineering and natural systems, including closed-conduits and pipe networks, open channel flow, turbo machinery, and hydrology.

Prerequisite
CVEN 212

CVEN 342 Water Resources and Management
Credit Hours: 3
An introduction to basic concepts and issues of water resources management, emphasizing on water law and rights, water resource planning, institutional and organizational arrangements, sustainable water resources development. Case studies illustrate the role of political, social, economic, and environmental factors in decision making. Physical properties of groundwater and aquifers, principals and fundamental equations of porous media and mass transport, well hydraulics and pumping test analysis, role of groundwater in the hydrologic cycle.

Prerequisite
GEOG 442

CVEN 350 Environmental Engineering
Credit Hours: 3
Introduction to water pollution, air pollution, soil contamination, noise, hazardous and solid waste, and their control. Environmental impact statements and global pollution issues. Introduction to groundwater engineering. Waste water management and sanitary engineering.

Prerequisite
CVEN 212 AND CHEM 101 AND CHEM 103

CVEN 352 Waste Management
Credit Hours: 3
Physical, biological and chemical water quality parameterization and measurements, wastewater generation and collection, biological wastewater treatment and reuse, industrial wastewater treatment, solid waste management, remediation of contaminated soil, groundwater remediation, hazardous waste.

Prerequisite
GEOG 442

CVEN 360 Highway Engineering
Credit Hours: 3

Prerequisite
CVEN 270

CVEN 369 Construction Engineering
Credit Hours: 3
Topics covered in this course are: introduction to the construction industry, management processes, time & cost processes, project budgeting, management of construction equipment, safety of construction sites, legal aspects in construction and construction claims. Introduction to computer applications in construction engineering.

Prerequisite
CVEN 320

CVEN 381 Contracts, Specs & Local Regin
Credit Hours: 3

Prerequisite
CVEN 380

CVEN 399 Practical Training
Credit Hours: 3
Supervised 8-week training period at any approved engineering concern (consulting, contracting, industrial, government), intended to provide students with hands-on experience in the workplace. Evaluation is based on daily performance, supervisors' input, student's report, and a short presentation.

CVEN 401 Civil Engin Des Project I
Credit Hours: 1
Analytical, design, experimental, or field work carried out in accordance with a pre-approval project plan under the supervision of faculty member(s).

CVEN 402 Civil Engin Des Project II
Credit Hours: 2
This Course is a continuation of course 504401

Prerequisite
CVEN 401

CVEN 420 Des of Steel Structures
Credit Hours: 3

Prerequisite
CVEN 220 AND ( CVEN 214 OR CVEN 211)

Prerequisite  
CVEN 320

CVEN 423  Sel Top in Struc Des  Credit Hours: 3  Analysis and design of prestressed structures. Introduction to structural dynamics. Analysis and design of shear walls. Analysis of plates and shells.

Prerequisite  
CVEN 320


Prerequisite  
CVEN 321

CVEN 430  Foundation Engineering II  Credit Hours: 3  Analysis and design of deep foundations (piers, caissons, piles), stability of open cuts, stability and design of sheet-pile walls (centrifuge, free and fixed earth support types, ties, walls), design of secant-pile walls, computer applications.

Prerequisite  
CVEN 330

CVEN 431  Sel Top in Geotech Engin  Credit Hours: 3  Stability of slopes, design of dewatering systems, characteristics of desert problematic soils (swelling soil, dune sand, salt-bearing soil “Sabkha”, liquefiable soil), soil improvement methods (mechanical, chemical), description and use of geosynthetics, stability and design of reinforced-earth walls, design of liner systems for liquid containments and solid waste landfills, computer applications.

Prerequisite  
CVEN 230  AND  ( CVEN 214  OR  CVEN 211)

CVEN 442  Sel Top in Water Resources  Credit Hours: 3  An introduction to basic concepts and issues of water resources management, emphasizing on water law and rights, water resources planning, institutional and organizational arrangements, sustainable water resources development. Case studies illustrate the role of political, social, economic, and environmental factors in decision making. Physical properties of groundwater and aquifers, flow and mass transport, well hydraulics and pumping test analysis, role of groundwater in the hydrologic cycle.

Prerequisite  
CVEN 340

CVEN 453  Selected Topics in Env Eng  Credit Hours: 3  Air Pollution Control, wastewater treatment, industrial wastewater treatment, solid waste management, remediation of contaminated soil, groundwater remediation, hazardous waste, water quality measurements, air quality measurements.

Prerequisite  
CVEN 350

CVEN 460  Pavement Materials and Des  Credit Hours: 3  Properties, uses and tests of asphalt materials, aggregate types and classification, traffic characterization. Pavement types and infrastructure. Asphalt concrete mix design methods. Introduction to super pave systems. Flexible and rigid pavement analysis. Structural design of flexible and rigid pavements. Pavement evaluation; Serviceability concept, structural capacity and surface distresses.

Prerequisite  
CVEN 360  AND  CVEN 230


Prerequisite  
CVEN 360

CVEN 462  Sel Top in Transport Engin  Credit Hours: 3  Highway planning, Mass transit plans design and operation (bus and rail). Analysis and design of signalized intersections based on HCM2500. Traffic signal coordination, Introduction to pavement management systems, Introduction to airport engineering. New developments in transportation engineering.

Prerequisite  
CVEN 360

CVEN 481  Project Planning & Scheduling  Credit Hours: 3  Introduction to Project Management Body of Knowledge (PMBOK), network methods of project planning & scheduling, such as AON, PERT, bar-charting, line-of- balance, and WBS techniques. Project compression analysis and control. Computer applications in project management. The Laboratory component of this course covers modern project management tools and techniques on the personal computer.

Prerequisite  
CVEN 380

CVEN 482  Sel Top in Const Engin & Mgmt  Credit Hours: 3  Selection made from the following topics: risk management, value engineering, total quality management; concurrent engineering; material management, and procurement of construction projects, project budgeting.

Prerequisite  
CVEN 380

DAWA 111  Islamic Culture  Credit Hours: 2 OR 3  Aims at introducing students to the foundations, manifestations and structures of Islamic Culture and to enlightening him about the challenges facing this culture.

DAWA 113  Philosophy of Sirah  Credit Hours: 3  1- Highlighting the personality of the Prophet (peace be upon him) in the various spheres of life. 2- Implanting love of the Prophet (peace be upon him) in the heart of the students. 3- Expounding the Prophetic methodology in dealing with others. 4- Enabling the student to relate the Sirah of the Prophet (peace be upon him) with the requirements of the modern age. 5- Enabling the student to relate events and analyze and understand them.

DAWA 114  Modern Techniques of Dawa  Credit Hours: 3  1- Educating the student on the information and skills required for a successful life. 2- Entrenching virtues in the student. 3- Developing communications skills. 4- Encouraging the student to participate in Dawa activities in the society. 5- Introducing the student to various Dawa institutions. 6- Acquainting the student with skills for dialogue, discussions and objective reasoning. 7- Enabling the student on analyzing modern means of Dawa.

DAWA 117  Ethics  Credit Hours: 3  1- Educating the student on the centrality of ethics in the making of a human, social, cultural and civilizational makeup. 2- Introducing the student to the role played by ethics in preserving humanity and nature and in the right development of human beings emotionally, socially, academically and culturally as well in achievement of justice and a civil society. 3- Acquainting the student with essential moral qualities, its importance and benefits in life and it practical results. 4- Engraining in the student moral etiquettes through the exposition of the essence of morality and the ways and means to nurture it. 5- Acquainting the student to the characteristics of Islamic
ethical values by objectively and academically comparing it with various ethical philosophies

DAWA 202
Intro to general Philosophy
Credit Hours: 3
1- Introduce the student to the essential issues of philosophy.
2- Introducing the student to the most important schools of philosophy.
3- Introducing the student to the contribution of philosophy in the human civilization.
4- Enable the student to objectively interact and deal with philosophical thought.

DAWA 203
Principles & Method of Dawa
Credit Hours: 3
1- Develop an intellectually and behaviorally sound personality which eschews extremist tendencies.
2- Prepare a successful preacher/scholar who can contribute positively in reforming the society.
3- Define the characteristics, methodologies, approaches and means of prophet preaching.
4- Prepare a preacher/scholar abreast of modern facilities and capable of responding to with modern requirements.
5- Introduce the preacher/scholar to his duties towards his society and humanity at large.
6- Educate the student on the psychology of his audience.
7- Educate the student on dialogue and communication skills for Dawa work.
8- Assisting the student in achieving model roles from the life pattern of the Prophet (peace be upon him).

DAWA 204
Research Methodology
Credit Hours: 3
The objectives of the course are to provide students with:
• An introduction to research methodology and independent research skills.
• Key empirical and analytical skills that will facilitate disciplinary and interdisciplinary research in various fields.
• Improved academic writing skills, the ability to give and receive constructive feedback and to act constructively upon it.
• Effective ways of using library resources for research works.

DAWA 205
School of Islamic Thought
Credit Hours: 3
There are six schools in which these objectives vividly manifest themselves:
1- In the field of knowledge – the student would learn:
   - the origin of the schools of Islamic thought and their spread
   - the impact of the political and social situation in conditioning the development of the thought pattern of these schools, and in turn the impact of these schools on intellectual and social life.
   - Views and concept of each school.
   - Characteristics of each school and its methodologies.
   - The guiding conceptual principles which guided the leading figures of a school.
   - The civilization impact of these schools of Islamic thought upon the nurturing of human civilization.
   - All these points will have to be studied with understanding, criticism, analysis, and implementation to enable the student to appreciate the methodologies and teachings of these schools of Islamic thought.
2- In the field of skill, al-hiss al-arhab – to develop and nurture the student intellectual, cultural and academic understanding with respect to:
   - Discussion, comparison, and criticism of the views being studied.
   - Entrain philosophical concepts of various schools of Islamic thought in the students to enable him to develop his mental abilities and intellectual acumen.
   - In the field of creativity:

   DAWA 206
   Inter Org & Human Rights
   Credit Hours: 3
   1- Acquainting the student with the International Organisations and human rights issues.
   2- Introducing the student to the most important International Organisations
   3- Introducing the student to the issue of human rights and different views around it and the issues related to it.
   4- Enable the student to understand the role of these organizations and interact with them.

   DAWA 207
   Islamic Institutions
   Credit Hours: 3
   1-Introducing the students to the institutions of Islam which regulate their society politically, economically and socially.
   2-Introducing the student to the merits of Islamic Shariah and its comprehensive nature in all matters of life.
   3-Nurturing the students’ understanding with respect to the issues that help in organizing ones life meaningfully.
   4-Explaining the characteristics of Islamic institutions with respect to their divine nature, their adaptability, development, comprehensiveness, practicability, middle- coursed nature, fairness, moderation and the ability to safeguard ones freedom and respect for human rights.

   DAWA 214

Textual Study Of The Quran
Credit Hours: 3
1- Educate the student on the best way to partake of the Qur’an and understand its methodology.
2- Introduce the student to the method and style of benefiting from the Qur’an objectively to resolve modern issues and crises by presenting instances of these and the Quranic solutions to them in our everyday life.
3- Fully acquaint the student with the Quranic approach to interacting with the ‘other’.

Prerequisite
DAWA 110 OR ISLA 102 OR ISLA 203

DAWA 301
Contemporary issues of Fiqh
Credit Hours: 3
Teach the student to appreciate the methodologies and teachings of these schools, and in turn the impact of these schools on intellectual and social life.

DAWA 302
world Religions Comp Studies
Credit Hours: 3
1. Introducing students to the science of history of comparative religion.
2. Introduce the student to the different methodologies of comparative religion.
3. Enable the student to carry out comparative religious studies.
4. Deeping the understanding of the student of other religions culture factions.
5. Inculcating positive approach towards the “other”
6. Enabling student to understand and appreciate the commonalities and differences between religions.

DAWA 303
Comparative Mysticism
Credit Hours: 3
1- Importance of the study of comparative mysticism.
2- Introduction to the commonalities of human spiritual experience.
3- Introduction to the characteristics of mystical experience.
4- Highlighting the human, intellectual, psychological and ethical dimensions of the mystical experience.
5- Acquainting the student with the mystical language and its characteristics and points of impact.
6- Elaborating the role of tasawwuf in the forward march of civilization.
7- Highlighting the role of tasawwuf in resolving the problems of modern man.
8- In all this the teacher would pursue a comparative study of the essential religious experiences of world religions.

DAWA 305
Modern Philosophy
Credit Hours: 3
1- Introducing the student to the most important schools of modern western philosophy.
2- Introducing the student to the contribution of modern philosophy in the European civilization.
3- Enable the student to objectively interact and deal with modern western thought, benefit from its positive aspects and forsake its negative aspects.
4- Enable the student to evaluate modern philosophy in the light of Islamic beliefs.

DAWA 306
History Of Religion
Credit Hours: 3
Introducing the student to the major religions of the world with respect to their origins, development, ancient scriptures and their modern situation with a solid background on the theological, juristic and major contemporary trends.

DAWA 311
Dawa in the Modern Age
Credit Hours: 2
Aims at critically analyzing the current state of Dawa movements, trends, individuals and institutions.

DAWA 312
Dawa Personal & the Society
Credit Hours: 2
Acquaints students with the nature of Dawa Society, its movements and intellectual trends, and prepares them spiritually, intellectually and culturally to interact with that society.

DAWA 401
Area Studies
Credit Hours: 3
1- Brief the student on the geographical setting of various areas world, their history, civilization, politics, society, economy and religion.
2- Introducing the student to the most important movements, institutions, religions and philosophies and personalities.
3- Encourage the student to keep close track of all developments in this areas.
4- Enrich the student with the culture of these places.
5- Acquaint the student with the strategic importance of various places in different respects.

DAWA 402
World Religious Thought
Credit Hours: 3
1- Acquaint the student with the modern religious map of the world and introduce him to the most essential issues engaging man in this regard.

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2- Introduce the background against which all these changes are taking place to the student.
3- Acquaint the student with the credit and comparative methodologies involved in these studies.
4- Engage the student in understanding and appreciating the points of view of other religions in this regard.
5- Provide the student the necessary material and motive to make a positive contribution towards this dialogical thrust while representing his own religious view succinctly.

DAWA 403
Graduation Project
Credit Hours: 3
The student will have to carry out a research project as a necessary part of graduation, on a topic or a theme of his choices after the approval of the department and under the supervision of faculty. He will be allowed to start the project from the third year if he wishes so. No degree will be conferred on him until and unless he successfully completes the project to the satisfaction of the department.

DAWA 404
Sociology of Religion
Credit Hours: 3
1- Introducing the student to the social dimension of religion and its academic importance through the sociology of religion.
2- Introducing the student to the origins, schools, theories, methodologies and leading figures of this discipline and enabling him to critically analyze it.
3- Acquaint him with the meaning of social change and its various theories related to religion in its various aspects.
4- Educate the student on the perspective of the scholars or sociology on the nature of religious and political institutions in the modern societies and encourage him to develop his own critical opinion on the subject.
5- Introducing the student to the efforts made by Muslim scholars in this field and comparing it with the modern western endeavors in the field.
6- Develop in the student a clear and concise Islamic view of religion and Islamic views and encourage him to understand and appreciate the modern views of civil society and human rights.
7- Educate the student on critically analyzing theories of the origin of religions presented by scholars of sociology of religion and the alternative given by Islam in a clear and lucid manner.

DAWA 405
Independent Studies
Credit Hours: 3
This course provides an opportunity for students to engage in self-study on a variety of topics, with particular emphasis upon subjects and issues that the student did not get the chance to study in other courses. This would be done in an interactive manner, by creating an environment of discussion and exchange of ideas between students and the instructor.

ECON 101
Principles of Economics
Credit Hours: 3

Prerequisite
( ENGL 4 OR ENGL F073 OR ENGL 2011 AND ( COMP 2 OR COMP F003 OR MATH 119)

ECON 103
Principles of Law
Credit Hours: 3

ECON 111
Principles of Microeconomics
Credit Hours: 3
This course focuses on basic microeconomic concepts including such as supply and demand, theory of perfect competition, monopoly and monopolistic competition.

Prerequisite
( ENGL 04 OR ENGL F073 OR ENGL F022 OR ENGL 202TOEFL Internet-based Test 061 OR TOEFL, Inst Testing Prog 500 OR Int Eng Lang Test Syst IELTS 5.5 OR TOEFL Computer-based Test 173 OR 1 AND MATH 002 OR MATH 119 OR MATH 004 OR MATH F014 OR MATH 021 OR Scholaristic Aptitude Test-SAT 500 OR Mathematics Placement Test 180 OR American College Testing-ACT 21)

ECON 112
Principles of Macroeconomics
Credit Hours: 3
This course focuses on basic macroeconomic concepts such as the production possibility set, the circular flow of income, the national accounts, the components of aggregate spending, a simple model of income determination and international linkages.

Prerequisite
( ECON 04 OR ENGL F073 TOEFL Internet-based Test 061 OR TOEFL, Inst Testing Prog 500 OR Int Eng Lang Test Syst IELTS 5.5 OR TOEFL Computer-based Test 173 OR 1 AND MATH 002 OR MATH 119 OR MATH 004 OR MATH 021 OR Scholaristic Aptitude Test-SAT 500 OR Mathematics Placement Test 180 OR American College Testing-ACCT 21 )

ECON 201
Microeconomics
Credit Hours: 2

ECON 202
Macroeconomics
Credit Hours: 2

ECON 203
Econ of Money & Banking
Credit Hours: 3

ECON 204
Public Finance
Credit Hours: 2

ECON 305
Econ of Arab Countries
Credit Hours: 3
The concept of economic structure and its determinants.

ECON 300
Econ of Labor & Industr
Credit Hours: 3

ECON 307
Adv Economic Theories
Credit Hours: 3
Factor pricing within different market structures. General equilibrium and resource allocation. Economic welfare criteria and how to maximize it. Some macroeconomics problems; inflation, unemployment and economic growth.

ECON 308
Comparative Economic Systems
Credit Hours: 3
Essentials of capitalist, socialist and Islamic economic thought. Economic systems; a comparison of economic systems in developed and undeveloped countries. A comparison of economic relations in traditional and modern economic sectors in developing countries.

ECON 311
Econometrics
Credit Hours: 3
This course examines properties of the least-squares estimators, specification, estimation and hypothesis testing of the simple and multiple regression models, use of dummy variables and violations of classical assumptions: heteroscedasticity, autocorrelation and multicollinearity.

Prerequisite
ECON 111 AND ECON 112 AND STAT 222

Prerequisite
ECON 112 AND MATH 221

ECON 341
Public Finance
Credit Hours: 3
Development of public finance as a discipline, government intervention in economic activities, impact of government expenditure, sources of government revenue, impact of taxes on economic activities, government budget and public debt.

Prerequisite
ECON 211 AND ECON 212

ECON 351
International Trade
Credit Hours: 3
Theory of comparative advantage and the gains from trade, barriers to world trade, policies, the GATT, mechanisms of international payments, and international monetary reform.

Prerequisite
ECON 212

ECON 401
International Economics
Credit Hours: 3

ECON 402
Planning & Econ Development
Credit Hours: 3

ECON 403
Project Evaluation
Credit Hours: 3

ECON 404
Energy Economics
Credit Hours: 3
Concepts of energy demand and supply of energy. Oil as an energy for development. The demand on oil as a multiple use resource. Prices of crude oil. Productivity and marketing of oil. Coal, nuclear, and electricity as an energy. The prospects of competition between oil, nuclear, natural gas, and coal as different sources of energy. The differences and similarities in the usage of these different sources.

ECON 405
Seminar
Credit Hours: 3
A series of seminars dealing with current economic issues and topics related to the state of Qatar as well as the Gulf and Arab States. The student is expected to present a research paper during the course.

ECON 411
Econometric Models
Credit Hours: 3
Autoregressive and distributed lag models, simultaneous-equations models and time series econometrics and forecasting with ARIMA and VAR models. Techniques of data gathering and choosing a research project and writing a research paper during the course.

Prerequisite
ECON 311

ECON 431
Monetary Poly & Foreign Exch
Credit Hours: 3
Introduction to the instruments of monetary policy and international finance. Topics covered are monetary policy and interest rates, uncertainty and choice of monetary instrument, foreign exchange market, the international monetary system and exchange rate arrangements, choice of exchange rate regime, purchasing power parity, foreign exchange exposure and risk management, current futures and swaps and exchange rate forecasting.

Prerequisite
ECON 212 AND ECON 331
This course covers the scope of managerial economics, tools of analysis and optimization, demand, markets, and elasticity. Production, costs and profitability analysis (short and long run), market structure: perfect competition, monopolistic competition, oligopoly, and monopoly, market power and market domination including; cartels, local and international dominating firms, and pricing practices (price discrimination, antitrust policies, and cartel agreements), budgeting and investment decisions and risk analysis will be discussed.

**Prerequisite**
ECON 211 AND ECON 212

**ECON 474**
Labor Economics
Credit Hours: 3
Supply of and demand for labor; wage determination; wage differential; labor productivity; unemployment and inflation, job search theory and expected inflation.

**Prerequisite**
ECON 211 AND ECON 212

ECON 440
Managerial Economics
Credit Hours: 3
This course examines the theory of comparative advantage and the gains from trade, tariffs and other trade restrictions, protection policies, the GAAT, mechanics of international payments, and international monetary reform.

**Prerequisite**
ECON 111 AND ECON 112

**ECON 441**
Health & Safety of Young Child
Credit Hours: 2
Participants in this course learn about the basic nutritional needs of children, good health practices, and accident prevention in the home and classroom. It will also examine prenatal factors of nutrition, health, and safety that may affect the birthing and well being of the young child.

**Prerequisite**
EDUC 312 AND EDUC 313

**EDEC 410**
Play & The Theory of Movement
Credit Hours: 2
Theory and research in the field of play and movement for young children are the focus of this course; characteristics of play at various ages and the role of play in development are covered. Course experiences are oriented toward increasing student awareness of the meaning and play to children, the importance of movement, and how to stimulate and enhance enriching play behavior.

**Prerequisite**
EDUC 312

**EDEC 413**
Int. Math/Sci. for young child
Credit Hours: 3
This course is designed to help the student gain knowledge and competencies necessary to become an effective teacher and leader in the areas of early childhood mathematics and science. It develops the theoretical bases for mathematics and science learning and teaching; illustrates and applies models for integrating elementary mathematics and science teaching; provides practical experience in curriculum, instruction and assessment. This course addresses specific State of Qatar National Curriculum Standards and requires an extensive field-based component.

**Prerequisite**
EDUC 312

This course will apply the theories of literacy acquisition to classroom settings. The course will investigate ways to help students learn to read and to write, how to assess and remediate learning, and how to address special issues related to the skills of reading and writing.

**Prerequisite**
EDUC 312 AND EDUC 313

**EDEC 453**
Teach. Arabic Langu. to Young Credit Hours: 3
Participants in this course will study goals, methods, and materials appropriate for teaching young children the Arabic language, with special emphasis on the Curriculum Standards for the State of Qatar, Arabic. This course will reflect the extensive field-based component.

**Prerequisite**
EDUC 312 AND EDUC 313

**EDEC 454**
Inter. Social Studies to Young Credit Hours: 3
This course will investigate how to apply theories of educational philosophy and psychology to teach the content and the values of social studies. There will be special emphasis on Arabic culture, Islamic values, and traditional ways of life in Qatar.

**Prerequisite**
EDUC 312

**EDEC 455**
Teach. Arabic to Young Children Credit Hours: 3
This course deals with theory and best practice in teaching, listening, speaking, reading and writing that are aligned with the State of Qatar National Curriculum Standards for grades KG to Three. It also introduces instructional strategies that foster language development in elementary school that are consistent with current theories of child second language acquisition. Language assessment, integrating technology and materials planning lessons and curricula, and classroom organization and management will also be also explored. This course includes an extensive field-based component.

**Prerequisite**
EDUC 311 AND EDUC 313
**EDEC 481 Student Teaching**

**Credit Hours:** 9

This course will provide ongoing mentoring and reflection during a 10-week Student Teaching experience and the four weeks preparation for that Student Teaching. Topics for study will emerge from interns’ authentic concerns and interests, from the university supervisor’s classroom observations, and from mentor teacher suggestions. Participants enrolled in this course will assume the responsibilities of a classroom teacher in a school setting. This course requires a minimum of 360 field hours.

**Prerequisite**

EDUC 310 AND EDUC 315 AND EDUC 312 AND EDUC 316 AND EDUC 317 AND EDUC 318 AND EDUC 314 AND EDUC 313 AND EDUC 311

**E DPR 410 Read. & Write. in all Discip.**

**Credit Hours:** 3

This course will focus on the theories and research that underpin the incorporation of reading and writing in every discipline and on methods for incorporating rich reading and writing experiences in each subject. Participants in the class will explore the theory and practice of literacy development of adolescents and how those theories may be applied in the classroom.

**Prerequisite**

EDUC 311 AND EDUC 313

**E DPR 446 Teaching Primary Level Arabic**

**Credit Hours:** 3

Participants in this course will study goals, methods, and materials appropriate for teaching primary students in the Arabic language, with special emphasis on the Curriculum Standards for the State of Qatar, Arabic. This course includes an extensive field-based component.

**Prerequisite**

EDUC 313

**E DPR 447 Teaching Primary Level Islamic**

**Credit Hours:** 3

Participants in this course will study goals, methods, and materials appropriate for teaching primary students in Islamic Studies. This course includes an extensive field-based component.

**Prerequisite**

EDUC 312

**EDPR 448 Enhancing Prim. level Social St**

**Credit Hours:** 3

This course concentrates on the teaching strategies of social studies, its approaches, and its methods in general education classes for the primary level. The course includes a number of topics including the nature of social studies in relation to its objectives, structure, concepts, definitions and the mutual relations among its branches and educational functions. The course also examines the knowledge and skills related to the curricula of social studies in Qatar which is connected to teaching, planning, learning resources, as well as evaluation methods. This course includes an extensive field-based component.

**Prerequisite**

EDPR 421

**EDPR 450 Teaching Primary Level Science**

**Credit Hours:** 3

Participants in this course will study goals, methods, and materials available for teaching topics such as scientific inquiry, matter and energy, biological systems, space and earth science, ecology, physics, and physical systems in the primary school classroom. Issues related to problem solving and technology will also be examined. The course will focus and the State of Qatar National Curriculum Standards in Science and will have a field-based component in a primary school setting.

**Prerequisite**

EDUC 312

**EDPR 451 Teaching Primary Level Math**

**Credit Hours:** 3

Participants in this course will study goals, methods, and materials available for teaching topics such as numeration, geometry, basic operations, fractions, decimals, percent, measurement, and probability in the primary school classroom. Issues related to problem solving and technology will also be examined. The course will focus and the State of Qatar National Curriculum Standards in Mathematics and will have a field-based component in a primary school setting.

**Prerequisite**

EDUC 312

**EDPR 452 Methods in Inquiry & Research**

**Credit Hours:** 3

This course focuses on the candidates’ acquisition of research and inquiry skills to support data collection, analysis, and reflection (action research). The application of qualitative and qualitative research methodologies will be examined. In addition, candidates will learn how to teach and support higher level thinking and inquiry skills in primary students and how to teach students to design and conduct experiments in science and mathematics.

**Prerequisite**

EDUC 312

**EDPR 453 Teaching Primary Level Eng.**

**Credit Hours:** 3

This course deals with the techniques, methods and strategies for teaching beginning EFL/ESL students. It deals with the effective teaching of English language skills, with special emphasis on the curriculum standards of the state of Qatar, English for grades from 4-6. Participants in this course will be exposed to the major concepts, theories and research related to the nature and acquisition of a second language. The course will also cover scaffolding techniques, material selection, and evaluation and assessment techniques appropriate to Qatar standards and ESL/EFL classrooms. This course includes field-based experiences in a primary school setting.

**Prerequisite**

EDUC 311

**EDPR 454 Teaching Primary Level Eng. II**

**Credit Hours:** 3

This course expands upon candidates knowledge the concepts and strategies for teaching beginning EFL/ESL students taught in Teaching Primary Level English (ESL) I for the effective teaching of English language skills, with special emphasis on the curriculum standards of the state of Qatar, English for grades from 4-6. The course requires candidates to apply scaffolding techniques, material selection, and evaluation and assessment techniques appropriate to Qatar standards and ESL/EFL classrooms and to effectively use ICT and inquiry in instruction. This course includes field-based experiences in a primary school setting.

**Prerequisite**

EDPR 453

**EDPR 455 Teaching Primary Level Reading**

**Credit Hours:** 3

This course is a comprehensive reading instruction course that is research based and includes the study of phonemic awareness, phonics, comprehension, spelling patterns, and methods of delivering a strong literature based program with emphasis on content area reading, comprehension, and ongoing assessment and diagnostic techniques.

**Prerequisite**

EDUC 312

**EDPR 481 Student Teaching**

**Credit Hours:** 9

This course will provide ongoing mentoring and reflection during a 10-week Student Teaching experience and the four weeks preparation for that Student Teaching. Topics for study will emerge from interns’ authentic concerns and interests, from the university supervisor’s classroom observations, and from mentor teacher suggestions. Participants enrolled in this course will assume the responsibilities of a classroom teacher in a school setting. This course requires a minimum of 360 field hours.

**Prerequisite**

EDUC 310 AND EDUC 315 AND EDUC 312 AND EDUC 316 AND EDUC 317 AND EDUC 318 AND EDUC 314 AND EDUC 313 AND EDUC 311

**EDSE 331 Read. & Writ. Across the Curr.**

**Credit Hours:** 3

The purpose of this course is to extend the candidate’s thinking about the concept of literacy and to prepare the candidate to critically analyze learning and literacy instruction in today’s schools. We will focus on providing a critical perspective for teaching reading and writing across the curriculum. The emphasis of the class is on developing conceptual tools that will enable the candidate to use reading and writing as instructional tools in the classroom. The course will focus on the nature of literacy processes and instruction that facilitates learning, particularly as it applies to secondary students. The course uses a social-constructivist theoretical perspective and involves a field-based experience.

**EDSE 332 2nd Lang.Lear.in the Seco.Clas**

**Credit Hours:** 3

This course is designed for in-service teachers to enable them to teach in multi-lingual settings by selecting and modifying curriculum and instruction for second language learners. During this course, current and past methodologies for teaching limited-language-proficient
EDSE 340 Meth I. Inst. Strat. for Arabic
Credit Hours: 3
This course focuses on introducing student teachers to the nature of the Arabic Language, its qualities, characteristics, and skills. It also aims at identifying the National Curriculum standards of teaching prep and secondary stage students, which is in addition to professional teachers’ standards in the State of Qatar. The course provides students with opportunities to train in the skills of lesson planning, recent methods and strategies of teaching and its applications in teaching the Arabic language (class preparation, warm-ups, motivating learners, teaching listening, speaking). It also provides opportunities to develop teaching performance through applications and field experiences. The course also develops skills in conducting action research, reflection in professional practices.
Prerequisite
EDSE 331 and EDSE 332
EDSE 341 Meth I. Inst. Strat. for English
Credit Hours: 3
Candidates will study goals, methods, and materials appropriate for teaching secondary levels courses in English (ESL, EFL), with special emphasis on the Curriculum Standards for the State of Qatar, English. Students will learn a range of research-based strategies for designing and delivering effective ESL/EFL instruction in the secondary classroom. The differences between the Advanced and Foundation Curriculums for the State of Qatar National Curriculum Standards and the changes in strategies that require will be explored. This course will include an eight-hour field-based experience in a preparatory or secondary school setting.
Prerequisite
EDSE 331 and EDSE 332
EDSE 342 Meth I. Inst. Strat. for Islm. St
Credit Hours: 3
The diploma candidates will study in this course the notion of Islamic education and its characteristics and objectives, and they will learn how to analyze content. As well, they will learn the teaching skills needed for the teaching profession, they will also learn modern teaching methods and strategies that emphasize positive learning activities such as active learning, collaborative learning, brainstorming and others. They will, as well, learn the appropriate teaching of recitation and interpretation in as much as their teaching objectives and principles are concerned. They will also study the provisions of proper recitation and Tajweed of the holy Quran.
Prerequisite
EDSE 331 and EDSE 332
EDSE 343 Meth I. Inst. Strat for Soci.St
Credit Hours: 3
Candidates will study goals, methods, and materials appropriate for teaching secondary level courses in social studies. Students will learn research-based methods of effective instruction in the knowledge and skills related to the discipline. This course has a significant field-based component.
Prerequisite
EDSE 331 and EDSE 332
EDSE 344 Meth I. Inst Strat for Math.
Credit Hours: 3
Candidates will study goals, methods, and materials appropriate for teaching preparatory/secondary levels courses in science with special emphasis on the Curriculum Standards for the State of Qatar, Science. Topics will include the use of ICT in mathematics; use of action research to inform instruction; and strategies to encourage, design, mentor and assess student research.
Prerequisite
EDSE 331 and EDSE 332
EDSE 345 Meth I. Inst. Strat. for Phys
Credit Hours: 3
Candidates will study goals, methods, and materials appropriate for teaching secondary levels courses in Physics, with special emphasis on the Curriculum Standards for the State of Qatar, Physics. Topics will include constructivist learning theories, discovery learning, inquiry, learning cycle models, project and problem-based learning, and the design and management of Physics laboratories. The differences between the Advanced and Foundation Curriculums for the State of Qatar National Curriculum Standards and the changes in strategies that require will be explored. This course has a field-based component.
Prerequisite
EDSE 331 and EDSE 332
EDSE 346 Meth II. Inq.& ICT for Arabic
Credit Hours: 3
This course concentrates on introducing students to effective and suitable strategies and methods of teaching Arabic for the prep and secondary stages in alignment with Qatar National curriculum standards and the National professional standards for teachers. The course deals with techniques and tools of varied assessments that measure students’ performance levels in the Arabic language skills. It also focuses on employing and using technology in teaching the Arabic Language skill. It also aims at developing the learners’ skills in research, analysis, and creation through employing technology in the lesson. It develops their reflective skills about their professional practices.
Prerequisite
EDSE 340
EDSE 461 Meth II. Inq.& ICT for English
Credit Hours: 3
Candidates will study goals, methods, and materials appropriate for teaching secondary level courses in English, the differences between the Advanced and Foundation Curriculums for the State of Qatar National Curriculum Standards and the changes in strategies that are required will be explored. The States will learn how to conduct action research, initiate and guide student research, and to use ICT in English teaching. This course has a field-based component. This course requires eight hours of field experience.
Prerequisite
EDSE 341
EDSE 462 Meth II. Inq.& ICT for Islm. St.
Credit Hours: 3
B.Ed. candidates will study methods of teaching the various Islamic Education branches that include: Hadith and the Prophet’s Biography (Sirah), Creed (beliefs) Worship and Discipline as incorporated in the teaching of the Islamic education, let alone they will be familiar with the strategies of using technology in teaching Islamic education, as well as the role of the evaluation and assessment in Islamic education, let alone they will be familiar with the characteristics of the Islamic education teacher and finally how to undertake research in Islamic education.
Prerequisite
EDSE 342
EDSE 463 Meth II. Inst. Strat for Soci.St
Credit Hours: 3
Candidates will study goals, methods, and materials appropriate for teaching secondary levels courses in social studies, with a special emphasis on the use of ICT in social studies instruction. The course will also include the use of action research to inform instruction, and strategies to encourage, design, mentor and assess student research.
Prerequisite
EDSE 343
EDSE 464 Meth.II: Inqu. & ICT for Math.
Credit Hours: 3
The course will focus on student-centered methods in teaching mathematics. Special attention will be devoted to strategies to teach and hands-on methods that use computer-aided instruction and mathematics laboratories to stimulate discovery learning. The course will also include the use of action research to assess and inform instruction and strategies to teach, encourage, mentor, and assess student research. This course has a field component. This course includes eight hours of field experience.

Prerequisite
EDSE 344

EDSE 465 Meth.II: Inqu. & ICT for Phys
Credit Hours: 3
Candidates will study goals, methods, and materials appropriate for teaching secondary levels courses in Physics, with special emphasis on the Curriculum Standards for the State of Qatar, Physics. Topics will include the use of ICT in Physics; use of action research to inform instruction; and strategies to encourage, design, mentor, and assess student research.

Prerequisite
EDSE 345

EDSE 466 Meth.II: Inqu. & ICT for Chem.
Credit Hours: 3
Candidates will study goals, methods, and materials appropriate for teaching secondary levels courses in Chemistry, with special emphasis on the Curriculum Standards for the State of Qatar, Chemistry. Topics will include the use of ICT in Chemistry; use of action research to inform instruction; and strategies to encourage, design, mentor, and assess student research.

Prerequisite
EDSE 346

EDSE 467 Meth.II: Inqu. & ICT for Biol.
Credit Hours: 3
Candidates will study goals, methods, and materials appropriate for teaching secondary levels courses in Biology, with special emphasis on the Curriculum Standards for the State of Qatar, Biology. Topics will include the use of ICT in Biology; use of action research to inform instruction; and strategies to encourage, design, mentor, and assess student research.

Prerequisite
EDSE 347

Credit Hours: 9
Ten weeks of observation and participation in classroom activity: supervised teaching in an independent school. Candidates will be assigned a mentor teacher at the school and university supervisors. Instruction of candidates will be based upon NCATE, INTASC, and the Qatar National Professional Standards for Teachers. Instructional activities will be designed using the Qatar Core Curriculum Standards.

EDUC 100 Photography
Credit Hours: 3
This course focuses on the basic concept of digital photography, which emphasis on 1) photography literacy, 2) handling of the digital camera, and 3) manipulation of digital images.

EDUC 200 Education and Social Problems
Credit Hours: 3
This syllabus was designed to help Qatar University students be aware of the basic educational concepts and their local and universal problems and issues directly related to the education field. These issues and problems are considered a foundational introduction to understand education issues and topics at the local, regional and universal levels. It also aims at helping students acquire the skills of recognition, understanding, analysing, and justifying those problems logically and critically. This is in turn will contribute to increasing their analytic abilities and their awareness of the community problems and issues from different domains (culturally, socially, economically, and environmentally, etc.) and in the amount that qualifies them to accept the other. This is of course will be achieved considering the renewed conditions of the Qatari society in addition to the variables and hurred universal innovations.

This course also aims on assuring the importance of students personal awareness of the importance and role of the educational process in participating in solving the Qatar society problems. It is to be considered that education is a society issue that requires forming an effective partnership with institutions and many religious, environmental, health, and security parties in the society. All these objectives are to be achieved in a distinguished, educational environment that is open to the local and international realities, an environment that is varied in its ways of presentation, research, analyses and evaluation. The role and importance of the university student in communication and dialogue can’t be overlooked in developing transparency and the spirit and soul. Consequently, this syllabus motivates students to cooperate and participate in suggesting some topics that require group work and offer solutions with peers. This in turn develops their abilities to discuss issues, to have a dialogue, to search, analyse problems and suggest proper solutions. By being involved in all of these processes, their role as effective and productive university students will be enhanced and will assure their loyalty and belongings to the Qatari society, keeps their ethics, values, morals and distinguish their identities, in addition to motivating them to keep their society’s wealth and possessions.

EDUC 201 Research Methods
Credit Hours: 3
This course is designed to help undergraduate students understand what research is, how it is conducted, and its place in academic disciplines. The focus will be on assisting students in developing practical research skills and strategies to enhance academic and professional success. Major emphasis will be on helping students understand the basic concepts of research as well as the different research paradigms and their implications for doing research. Another focus will be on assisting students with developing the ability to effectively prepare a research proposal. Other course topics include research ethics, experimental and non-experimental research, and acquiring and electronic and non-electronic information resources for research purposes. Design methods used in this course will integrate to plan active and experiential activities in the teaching and learning process. Student learning outcomes will be assessed using a comprehensive approach.

EDUC 203 Family Relationships
Credit Hours: 3
This course provides students with a range of knowledge, skills, and positive attitudes towards the family and family relations. It covers the concept of families, their functions and characteristics, the functions of the individual that change with marriage and family life, and family growth in the life cycle. Content includes the family’s role in child-rearing and different developmental stages. The role of family organizations in helping families address marital issues and problems is also addressed

EDUC 310 Fnd of Ed in Qtr & School Reform
Credit Hours: 3
This course has been designed to acquaint the learners with the progress of education in Qatar, including schools and the various elements that impact education and learning, such as the family and society. Learners will also become acquainted with the roles expected they may be expected to ply within the initiative of educational progress in Qatar through examining some of the issues related to the initiative and the responsibilities of teachers.

EDUC 311 Applic in Sc Lang Acquisition
Credit Hours: 3
This course provides an introduction to the field of Second language acquisition and learning, an intricate process that involves the dynamic interaction of individual and social variables. It considers a wide range of theories, models, and research that have been proposed to account for this process. Participants are guided to evaluate language acquisition processes, and the implications of different perspectives for second language teaching in a variety of contexts.

Prerequisite
EDUC 313

EDUC 312 Curriculum and Assessment
Credit Hours: 3
This course engages participants in examining curriculum theory and models and provides experience in designing individual lessons, units, and assessments that promote the learning of all early childhood and primary students. Participants in the course will learn to create effective instructional program through applying best practices; responding to diverse community interests, and planning for student mastery of State of Qatar curriculum standards. This course includes a field-based component.

EDUC 313 Developing Literacy in Child
Credit Hours: 3
This course will provide an overview of the history, current research, and issues in language acquisition in both naturalistic contexts and classroom settings and the importance of literacy in the development of children. It also includes the identification, evaluation, and use of different genres of literature to teaching children.

Prerequisite
EDUC 315
EDUC 314 Technology for Children
Credit Hours: 3
This course provides an introduction to basic computer operations and technology, including fundamentals of using a computer, using basic software, accessing and saving data, basic use by children of spreadsheets, databases and word processing. Participants in this course will learn about developmentally appropriate use of technology with children and how to evaluate and select hardware and software to support the early childhood and primary programs.

EDUC 315 Child Development & Learning
Credit Hours: 3
This course reviews the literature on children’s biological, motor, perceptual, cognitive (including intelligence), language, emotional, social, and gender development. Child development history, theory, and research strategies will be discussed, as well as the effect of family, peers, media, and schooling.

EDUC 316 Classroom Management
Credit Hours: 3
This course will explore methods to create a positive primary classroom environment and to establish routines that lead to effective learning and safety for all students. It will examine theories and research-proven strategies to manage student behaviors to promote learning and ways to engage parents as partners in learning. This course includes a field-based component.

EDUC 317 Inclusive Classrooms
Credit Hours: 3
This course introduces students to psychological, environmental, and cultural conditions that contribute to mild/moderate disabilities. It covers etiology, characteristics, development, prevention and intervention strategies, theories, and legal aspects. It emphasizes development in academic, social, career, behavioral, medical, psychological, physical, and health conditions of individuals with mild/moderate disabilities. This course includes a field-based component.

EDUC 480 Std Teaching-Early Childhood
Credit Hours: 9
This course will provide ongoing mentoring and reflection during a 10-week Student Teaching experience and the four weeks preparation for that Student Teaching. Topics for study will emerge from interns’ authentic concerns and interests, from the university supervisor’s classroom observations, and from mentor teacher suggestions. Participants enrolled in this course will assume the responsibilities of a classroom teacher in a school setting. This course requires a significant number of field hours.

EDUC 481 Std Teaching-Arabic Studies
Credit Hours: 9
This course will provide ongoing mentoring and reflection during a 10-week Student Teaching experience and the four weeks preparation for that Student Teaching. Topics for study will emerge from interns’ authentic concerns and interests, from the university supervisor’s classroom observations, and from mentor teacher suggestions. Participants enrolled in this course will assume the responsibilities of a classroom teacher in a school setting. This course requires a significant number of field hours.

EDUC 482 Std Teaching-Early Childhood
Credit Hours: 1
This course will provide ongoing mentoring and reflection during a 10-week Student Teaching experience and the four weeks preparation for that Student Teaching. Topics for study will emerge from interns’ authentic concerns and interests, from the university supervisor’s classroom observations, and from mentor teacher suggestions. Participants enrolled in this course will assume the responsibilities of a classroom teacher in a school setting. This course requires a significant number of field hours.

EDUC 483 Std Teaching-Math & Science
Credit Hours: 9
This course will provide ongoing mentoring and reflection during a 10-week Student Teaching experience and the four weeks preparation for that Student Teaching. Topics for study will emerge from interns’ authentic concerns and interests, from the university supervisor’s classroom observations, and from mentor teacher suggestions. Participants enrolled in this course will assume the responsibilities of a classroom teacher in a school setting. This course requires a significant number of field hours.

EDUC 484 Std Teaching-English
Credit Hours: 9
This course will provide ongoing mentoring and reflection during a 10-week Student Teaching experience and the four weeks preparation for that Student Teaching. Topics for study will emerge from interns’ authentic concerns and interests, from the university supervisor’s classroom observations, and from mentor teacher suggestions. Participants enrolled in this course will assume the responsibilities of a classroom teacher in a school setting. This course requires a significant number of field hours.

ELEC 201 Electric Circuits
Credit Hours: 3
Basic Concepts: Voltage, current, power, and energy. Independent and dependent voltage and current sources. DC Circuits Analysis: Ohm’s law, Kirchhoff’s current and voltage laws, Series and parallel DC circuits analysis, nodal analysis, and mesh analysis. Superposition, source transformation, and maximum power transfer theorems. AC Circuits Analysis: Sinusoidal sources, rms value, phase representation, complex impedances. Kirchhoff’s laws in the phasor domain, parallel and series AC circuits. Experiments will be conducted to support the course including the use of computer software for circuit analysis.

Prerequisite
MATH 102 AND PHYS 193

ELEC 202 Electric Circuits II
Credit Hours: 3

Prerequisite
ELEC 201

ELEC 203 Electric Circuits II Lab
Credit Hours: 1
Selected experiments are performed, these include: Response of RL and RC circuits; Series and Parallel Response of RLC networks; Measurement of average and rms values; Sinusoidal Steady State Analysis using Circuits techniques; Three-phase circuits; Measurement of three-phase power; power factor correction, etc.

Prerequisite
ELEC 202

ELEC 221 Fundamentals of Electronics
Credit Hours: 3

Prerequisite
ELEC 202

ELEC 262  Digital System Design Lab  Credit Hours: 1  Selected experiments examining logic devices and circuits, and including a final design project, to accompany and complement the lecture course.

Prerequisite  ELEC 261

ELEC 263  Computer Arch & Organization  Credit Hours: 3  Introduction and historical overview. The Five classic components of a Computer. Performance measures for Computers. CPU description at the instruction level. CPU organization. CPU types. CPU design: Register transfer language, Hardwired and micro-program control, CISC and RISC processors. Instruction and hardware study of a commercial 8-bit microprocessor (e.g. Intel 8086).

Computer Memory, Input and output devices. Operations of a commercial 8-bit microprocessor (e.g. Intel 8088). Computer Memory, Input and output devices.

Prerequisite  ELEC 261

ELEC 299  Elect Engineering Seminar  Credit Hours: 0  Selective weekly seminars given by the faculty and invited speakers from the industry. Topics include contemporary engineering issues, ethical issues, engineering skills, and various other issues that help students in their future careers.

ELEC 311  Electromagnetics  Credit Hours: 3  Electromagnetic phenomena explored in modern applications, including communications, circuits, power systems, computer, radar, and sensors. Fundamental concepts covered are: Differential and integral forms of Maxwell’s equations and their physical meanings. Solution of Maxwell’s equations for non-time-varying fields; Solution of Maxwell’s equations for time-varying fields; traveling waves, refraction, reflections, and Poynting’s theorem; Uniform plane waves, transmission lines, and waveguides. Electromagnetic radiation and introduction to antenna theory.

Prerequisite  MATH 217 AND PHYS 193 AND MATH 385


Prerequisite  ELEC 299

ELEC 313  Electric Machines Lab  Credit Hours: 1  Transformer: Open and short-circuit tests, polarity test, testing characteristics for efficiency and regulation determination. DC machines: starting and loading tests. Induction Motor: Starting tests, no-Load and locked rotor tests, load test. Synchronous Machines: No load and short circuit tests, synchronization test. Computer package will also be used to handle tedious calculations arising in some electric machine experiments.

Prerequisite  ELEC 312


Prerequisite  ELEC 202

ELEC 333  Electronics Engineering  Credit Hours: 3  Operational amplifier design and applications. Differential amplifiers and multistage amplifiers, Frequency response and design of the differential amplifiers. Analysis of active filters and tuned amplifier circuits design and applications. Analysis and design of signal generators and power amplifiers.

Prerequisite  ELEC 231

ELEC 334  Electronics Engineering Lab  Credit Hours: 1  Selected experiments examining differential and operational amplifiers circuits design and applications. Fundamentals and design concepts of electronic circuits including filters, oscillators, and power amplifiers. Use of computer simulation for analysis and design of electronic circuits.

Prerequisite  ELEC 333

ELEC 341  Communications Engineering  Credit Hours: 3  An introductory course to analog and digital communication systems. Distortionless analog communication; amplitude, frequency, and phase modulation system architectures; frequency division multiplexing, Baseband digital communication; intersymbol interference (ISI); Nyquist’s ISI criterion; eye diagrams. Passband digital communications; amplitude, phase and frequency-shift keying; signal constellations. Random processes, random signals and noise. Performance analysis of BPSK in noise.

Prerequisite  ELEC 351 AND MATH 217

ELEC 342  Communications Engineering Lab  Credit Hours: 1  Construction and testing of analog and digital modulation circuits. Emphasis on spectral analysis, bandwidth requirements, and other practical considerations. Phase locked loops. Frequency and phase modulations. Sampling and quantization.

Prerequisite  ELEC 341


Prerequisite  ELEC 201


Prerequisite  ELEC 351 AND MATH 217

ELEC 364  Microprocessors  Credit Hours: 3  Microprocessors and micro controllers evolution. Architecture of a selected 8-bit microprocessor (e.g. 8088 microprocessor), Assembly language and its software development tools. Data movement, arithmetic, logic, and program control instructions. Interrupt organization. The hardware of the selected microprocessor. Memory interface and address decoding. DRAM controllers. I/O interfaces. Programmable peripheral interface (PPI). Serial I/O interfacing and USART. Hardware interrupts, basic interrupt interface and programmable interrupt controller.
Applied to sensors’ systems. Computer acquisition: DAQ, displacement, velocity and acceleration, force and to measure various physical quantities (e.g. temperature, analysis, calibration. DC & AC bridges. Resistance and Measurement & error: accuracy, precision, statistical Measurement systems: components and behavior.

Credit Hours: 3

Sensors and Instrumentation

ELEC 366

Prerequisite

ELEC 263

Microprocessors Lab

Credit Hours: 1

A group of experiments to emphasize the practice of assembly language programming, the data acquisition software technique, and the hardware for data acquisition systems.

Prerequisite

ELEC 364

Embedded Systems

Credit Hours: 3

An introduction to microcontroller architecture, instruction sets, language compilers, microcontroller interfacing microcontroller peripherals, and embedded system design. Study cases of microcontroller-controlled systems. Simulation and Emulation of specific families of microcontrollers.

Prerequisite

ELEC 261 AND ELEC 262 AND GENG 106

ELEC 367

Embedded Systems Lab

Credit Hours: 1

Selected experiments and course project that complement the theory course ELEC364. Operation of microcontrollers; interfacing microcontrollers to real systems; design of embedded systems solutions using microcontrollers. Use of computer simulation for the analysis and design of microcontroller-based systems.

Prerequisite

ELEC 366

ELEC 371

Sensors and Instrumentation

Credit Hours: 3

Measurement systems: components and behavior. Measurement & error: accuracy, precision, statistical analysis, calibration. DC & AC bridges. Resistance and capacitance measurement. Common industrial sensors to measure various physical quantities (e.g. temperature, displacement, velocity and acceleration, force and pressure, and light). Signal processing techniques applied to sensors’ systems. Computer acquisition: DAQ, grounding, shielding, and cabling. The course includes a Lab which provides basic background in measurements & instrumentation and conventional sensors. CAD tools are used to analyze, acquire and present data.

Prerequisite

ELEC 333

ELEC 375

Biomedical Engineering

Credit Hours: 3

Part 1: Biomedicine and Electrical Engineering; Human physiology and anatomy, biosystems and modelling of physiology; Engineering and human senses; Brain studies and EEG (electrical activity and disorders); heart and ECG, eye, perception and image processing - hand and automatic control; human body as a communication system (auditory system, speaker and speech analysis);

Part 2: Biomedical processes and systems; Filtering for removal of artefacts; Biomedical Event detection, characterization and automatic diagnostic; Frequency characterization; Clasification and diagnostic decision; Lab experiments.

Prerequisite

ELEC 351 AND ELEC 371

ELEC 399

Practical Training

Credit Hours: 3

Supervised 8 weeks training period at any approved engineering concern (consulting, contracting, industrial, government), intended to provide students with hands-on experience at the work place. Evaluation is based on daily performance, supervisors’ input, student’s report, and a written presentation.

Prerequisite

ELEC 415

Power Electronics & Drives

Credit Hours: 3

Power Semiconductor Devices, AC/DC converters, Choppers, Inverters, Cycloconverters. Elements of Electric Drives; DC motor drives including conventional, brushless and modern permanent magnet motors; AC motor drives including induction and synchronous motors.

Prerequisite

ELEC 312 AND ELEC 333

ELEC 416

Sel Top in Elect Mach Drives

Credit Hours: 3

Selected topics in the field of electric machines and drives that deals with new trends and practical issues.

Prerequisite

ELEC 312

ELEC 422

Adv Power System Analysis

Credit Hours: 3


Prerequisite

ELEC 321

ELEC 423

Electric Power Dist Systems

Credit Hours: 3


Prerequisite

ELEC 321

ELEC 424

Operation of Power Systems

Credit Hours: 3

Electric Load Forecasting; Techniques used for forecasting, short term load forecasting, long-term load forecasting. Economic dispatch and unit commitment, least error squares algorithm, State estimation, Power system control, load frequency control and Automatic generation control.

Prerequisite

ELEC 321

ELEC 425

Sel Topics in Power Systems

Credit Hours: 3

Selected topics that deal with new trends and issues in Power System and High Voltage Engineering.

Prerequisite

ELEC 321

ELEC 438

Sel Topics in Electronics

Credit Hours: 3

Selected topics in the field of Electronics that deals with new trends theoretical and practical issues.

Prerequisite

ELEC 333

ELEC 444

Digital Communications

Credit Hours: 3

Theory and techniques of modern digital communication systems. Information sources and source coding. Digital transmission through AWGN channels. Band limited channels. Channel capacity and error correcting codes. Multiple access techniques and spread spectrum communications. Introduction to fading channels.

Prerequisite

ELEC 341 AND GENG 200

ELEC 446

Set Top in Comm Engineering

Credit Hours: 3

Selected topic in the field of Communications Engineering that deals with new trends and practical issues.

Prerequisite

ELEC 341

ELEC 447

Wireless Communications

Credit Hours: 3


Prerequisite

ELEC 341

ELEC 453

Adv Control Systems

Credit Hours: 3

State-space representation, and solution of linear state equation. Controllability, observability, state feedback pole placement design, entire eigen-structure assignment

Prerequisite

ELEC 341
for regulators design, state observer design, and linear optimal control design. Properties of nonlinear systems, Lyapunov stability, and nonlinear control system design. Intelligent control: fuzzy sets and systems, fuzzy control systems design.

**Prerequisite**

ELEC 352

**ELEC 456 Digital Signal Processing**  
**Credit Hours:** 3  
Review of Fundamentals (discrete signals and systems; Sampling & Quantization; Discrete-time Fourier Transform; Z transform); introduction to filter design. Discrete Fourier transforms. Fast Fourier Transform; linear and circular convolution; overlap-add method; FIR Digital filters; IIR Digital filters; Digital Spectral Analysis; Periodogram and Correlogram. Time-Frequency analysis and the spectrogram; signal enhancement; applications to voice, EEG and ECG analysis; introduction to 2D signals and images.  
**Prerequisite**

ELEC 351

**ELEC 457**  
**Sel Top in Ctrl Sys - Sig Proc**  
**Credit Hours:** 3  
Selected topics in the field of Control and signal processing that deals with new trends and practical issues.  
**Prerequisite**

ELEC 352

**ELEC 469 Computer Networks**  
**Credit Hours:** 3  

**Prerequisite**

ELEC 341 AND GENG 106

**ELEC 471 Sel Top in Cmptr Engineering**  
**Credit Hours:** 3  
Selected topics in the field of Computer Engineering that deals with new trends and practical issues.  
**Prerequisite**

ELEC 333 AND ELEC 312

**ELEC 472 Wireless Networks & App**  
**Credit Hours:** 3  
**Prerequisite**

ELEC 341 AND GENG 106

**ELEC 481 Power Elec & Renewable Energy**  
Introduction to power electronics, and renewable energy sources and their impact on environment. Power Semiconductor Devices. DC/DC Converters principle and design. Inverters concept of operation, design, and applications. Rectification of utility input: concepts and Renewable energy sources: Solar energy, Wind energy systems, and fuel cells. Renewable energy source modeling and interfacing, Renewable energy characterization and grid-connected and island modes. Several laboratory experiments and computer-based exercises are conducted to enhance and consolidate the understanding of power electronics & renewable energy principles and applications.  
**Prerequisite**

ELEC 333 AND ELEC 312

**ELEC 482 Selected Topics in Power Elec.**  
**Credit Hours:** 3  
Selected topics in the field of power electronics that deals with new trends and applications shedding the light on the practical issues related to specific application. Several selected laboratory experiments, computer based exercises, and digital simulations labs are conducted to enhance and consolidate the understanding of advanced power electronics principles and applications.  
**Prerequisite**

ELEC 333 AND ELEC 312

**ELEC 483 Electric Drives**  
**Credit Hours:** 3  
Introduction electric drive systems. Dynamics of electric drive systems. Joint speed torque characteristics of electric motors and mechanical loads. Speed-torque characteristics of electric motors. Modeling of electric drives systems. Speed control of DC motors. Design of feedback control system for electric drives. Speed control of induction motor: Basic principles for speed control, voltage/frequency control, slip error recovery, and current source speed control. Braking of electric motors (dc and induction motors). Several laboratory experiments and computer-based exercises are conducted to enhance and consolidate the understanding of electric drives principles and applications.  
**Prerequisite**

ELEC 312 AND ELEC 352

**ELEC 484 Industrial Control**  
**Credit Hours:** 3  
This course aims to introduce the basic concept of industrial automation and modeling and control of industrial process. The course covers modeling of industrial processes through physical principles, and also identification of them using time and frequency domain techniques. Tuning of industrial controllers like PID is elaborated. Next, hydraulic and pneumatic system in industrial automation is introduced and their logic design is explained. Finally, Programmable logic controllers (PLC) are introduced and their hardware and software are explained.  
**Prerequisite**

ELEC 352

**ELEC 485 Introduction to Robotics**  
**Credit Hours:** 3  
The purpose of this course is to introduce the basics of mathematical modeling, design, planning, and control of robot systems. In this course, student will learn relevant results from rigid body transformation and geometry, forward and inverse kinematics, velocities and Jacobians of linkages, dynamics, trajectory planning and control, robot design, and actuation and sensing devices.  
**Prerequisite**

ELEC 352 OR MECH 361

**ELEC 486 Advance Bio. Sys. Engineering**  
**Credit Hours:** 3  
Review of bio-medical applications; system theory approach to modelling; non-invasive determination of blood pressure; physiology of oxygen transport; physiology of cardiac output, ECG monitoring and detection of abnormalities; screening for cervical cancer and breast cancer; system and algorithm implementation; data types; digital signal processors; Medical monitoring and System theory; innovation in the medical industry; applications and lab experiments.  
**Prerequisite**

ELEC 375

**ELEC 487 Selected Topics in Bio. Engin.**  
**Credit Hours:** 3  
Selection of special topics in the field of Biomedical Engineering covering a broad or specialized treatment of topics including but not limited to Biomedical Design, Biomedical electronics, biomedical imaging.  
**Prerequisite**

ELEC 375

**ELEC 488 Medical Imaging Systems**  
**Credit Hours:** 3  
**Prerequisite**

ELEC 375

**ELEC 495 Independent Study**  
**Credit Hours:** 3  
To study and conduct a special assignment, or to participate in an internal or external research project.
ENGL 111
Prerequisite
ENGL 498
Credit Hours: 3
This course is a continuation of ENGL (1) and focuses on developing the same skills at a more advanced level. The emphasis remains on students' practical use of English. Some attention will be given to differences between written and spoken English (with the aim of eliminating errors resulting from confusing the two modes) and to conventions of punctuation.

ENGL 112
Grammar I
Credit Hours: 2
This course introduces students to basic syntactic categories, or parts of speech. It pays considerable attention to devices for expressing time, aspect and voice and to development of the students' understanding of how these are used appropriately in context. Continuous attention will be paid to subject-verb agreement throughout the series of grammar courses.

ENGL 113
Grammar II
Credit Hours: 2
This course continues Grammar (1) examining in addition modality, negation, the use of determiners and major syntactic and collocational properties of phrasal verbs. The students are also encouraged to practice question formation.

ENGL 114
Writing I
Credit Hours: 2
The goal of this course is the writing of paragraphs. Students will work on sentences and the combination of sentences, paying additional attention to punctuation and spelling. They will also work on the discovery or creation of ideas and in organizing them into paragraphs showing clear topics, developmental points and conclusions.

ENGL 115
Writing II
Credit Hours: 2
Building on the paragraph-writing skills of Writing (1), this course will concentrate on short essays of three paragraphs. The students will develop their abilities further to construct more complex sentences and to combine them using suitable transitions. The course will move toward more formal outlining or organizing ideas into clearly stated theses, or purpose, supporting statements and conclusionary remarks.

Prerequisite
ENGL 114 OR ENGL 127
ENGL 150
Essay Writing I
Credit Hours: 3
This course provides guided experience in writing academic essays at the university level. Emphasis is placed on writing effective introductions and concluding paragraphs, developing a clearly defined thesis statement and crafting strong supporting paragraphs. The course will help the students to learn how to research, evaluate, use and cite sources and learn a variety of techniques for crafting their own writing through two principal activities: the process of their own writing and analysis of the writing of others. Students will receive instruction on summarizing, using transition signals/paragraphs, paraphrasing, using different types of quotes and correcting common sentence errors. All material is based on the writing standards established by the Modern Language Association (MLA).

ENGL 151
Achieving Comprehension
Credit Hours: 3
This course introduces students to a wide variety of authentic texts from different sources including newspaper and magazine articles and extracts from the works of modern writers. Texts will also vary in length and density. Tasks are designed to include different skills reflecting the different kinds of responses to texts needed by students such as summarizing the main argument of the text, taking detailed notes, criticizing texts, comparing texts written in different registers examining the different features that make texts cohesive and coherent and responding to exam-style comprehension questions.

ENGL 152
Sentence Analysis
Credit Hours: 3
This course is designed to provide students with an understanding of the way in which words and sentences are constructed. It will cover the fundamental issues of sentence analysis, such as: word classes; clauses and units within the clause; free and bound clauses; and the distinction between form and function. Different ways of representing analysis will be covered, but the emphasis will be on traditional grammar and on functional analysis down to word level. Students will be expected to produce different types of sentences from superficially identical sentences, in order to explain ambiguities.

ENGL 153
Essay Writing II
Credit Hours: 3
This course continues the work started in Essay Writing I. It deals in more detail with the different types of essays, some of which are of immediate relevance to the students' work in other courses such as the analytical and argumentative essay types, and others introduce the student to critical thinking and develop their analytical skills. This course will enable students to learn how to research, outline and write essays and also it enables them to judge essays written by others.

Prerequisite
ENGL 150 OR ENGL 303
ENGL 155
Introduction to Language
Credit Hours: 3
This is an introduction to the general study of language. The course deals with the origin, nature and function of language as a uniquely human phenomenon. That is, what is common to all human speakers no matter what specific language they speak. Topics such as the structure of language, its role in society, and how it is learned are surveyed. Linguistic phenomena and their links to other disciplines such as artificial intelligence, psychology, society, culture, and brain, among others, are discussed.

ENGL 156
Introduction to Literature I
Credit Hours: 3
This course introduces plays and a narrative poem from Shakespeare's career. Class discussions will involve close analysis of Shakespeare's language, his culture, and the various moral, political, and aesthetic issues raised in the plays and poetry. The class will favour thematic over chronological order of reading so that students can build on a progressive examination of king and kinship, gender, love, friendship and reciprocal obligation; revenge and moral redemption.

ENGL 157
Introduction to Linguistics
Credit Hours: 3
This course introduces students to the basic concepts in phonology, morphology, syntax, and semantics, as well as to some of the other subfields of linguistics, such as psycholinguistics, sociolinguistics and historical linguistics. Data and examples from numerous languages, particularly English and Arabic, are used to illustrate these concepts. The course helps students approach language in a scientific way.

Prerequisite
ENGL 155
ENGL 158
ENGL 158  
Introduction to Literature II  
Credit Hours: 3  
This course builds on knowledge and skills gained from ENGL 157. It surveys literature from the eighteenth- to the twentieth century. Students will learn to apply critical thinking skills and become independent language learners. The course also gives practice in grammar, vocabulary, pronunciation, note-taking, group discussion, conducting interviews, oral presentation and further reading.

Prerequisite  
ENGL 200  

ENGL 202  
Engl Lang I Post Found  
Credit Hours: 3  
This course is designed to help students improve their academic writing ability, and to ensure that they are prepared for the more advanced writing and research skills introduced in English 2. Emphasis is placed on understanding information from authentic texts. Academic vocabulary is taught through inference and context. A collaborative community environment is encouraged, where students learn to provide and accept relevant feedback to and from their peers. Throughout the semester, students create and develop an e-portfolio.

Prerequisite  
ENGL 158 OR ENGL 248  

ENGL 213  
Language and Culture  
Credit Hours: 3  
The aim of this course is to give students a basic understanding of the role language plays in the fabric of society at both macro and micro levels, particularly the unifying the separatist functions. The nature of the course calls for encompassing themes from social psychology, communication, semiotics, pragmatics, and language planning. The eclectic approach is meant to provide students with an overall view of language as a social process and a social product. It is also meant to making students aware of the link between the formal and the functional dimensions in the study of language. The students are exposed to the problems and issues related to language diversity with reference to the Qatari society.

Prerequisite  
ENGL 158 OR ENGL 248  

ENGL 220  
American Literature  
Credit Hours: 3  
This course introduces students to both the contexts and the texts that have come to shape American literature from the eighteenth- to the twentieth century. We will explore different versions of American identity they have developed through time and across the genres of prose narrative, poetry, and drama. From Walt Whitman’s proud assertion of an American selfhood in “Song of Myself” (1855) to Sylvia Plath’s struggle with what it means to be an American woman, this course will engage with major themes in American literature. These will include slavery and its inheritance, the creation of national identity, gender in America, the idea of the frontier and American gothic.
ENGL 249 Writing
Credit Hours: 3
This course introduces students to the basics of essay writing in English. Students will learn and practice how to develop and write effective sentences, and how to organize these sentences into a cohesive paragraph. Class activities will lead students through the writing process, including brainstorming, developing a topic, adding relevant details and writing and editing paragraphs. Students will participate in activities that teach a range of writing techniques, and stimulate critical thinking skills.

ENGL 250 English for Communication I
Credit Hours: 3
This course provides an opportunity for students to continue to increase their English language proficiency but with major weight on reading and writing skills. Readings include a diverse range of articles from authentic texts so that critical thinking, reading strategies, and fluency are developed. Both semi-formal and formal writing skills are incorporated in writing times so that students are familiar and flexible with texts required for college study and different majors. Vocabulary, grammar, listening and speaking are extended through integrative, immersive activities using highly interactive and collaborative strategies, as well as technology-based communication and tools. All sessions are designed around the principles of active learning and student-centered practices.

Prerequisite
ENGL 111 OR ENGL 203 TOEFL Int Eng Test Prep 500 OR Int Eng Lang Test SYST-IELTS 5.5 OR TOEFL Computer-based Test 173 OR TOEFL Internet-based Test 061 OR

ENGL 251 English for Communication II
Credit Hours: 3
Building on English 250, this course is an advanced English Communication course with the main focus being reading and writing. It provides students the opportunity to learn and practice higher level reading and writing skills to prepare them for both college needs and future work demands. Students will encounter authentic academic models and situations emphasizing the appropriateness of every task, culminating with a short term paper. Students gain insight into the cultural, historical, philosophical and societal values of English language and culture.

Prerequisite
ENGL 158 OR ENGL 248

ENGL 303 Sociolinguistics
Credit Hours: 3
This course introduces students to the study of language in its sociocultural context, focusing on uses and users of language. It tries to answer a number of questions regarding the correlation between language and society, including the following:

a) Who uses different linguistic forms (e.g. American English and British English) and why?

b) Do they use different linguistic forms in different situations? When? Why?

c) What determines these differences?

d) How do they use different linguistic forms in different situations?

e) How do these differences affect interpersonal communication?

ENGL 305 First Language Acquisition
Credit Hours: 3
This course introduces students to the study of language in its sociocultural context, focusing on uses and users of language. It tries to answer a number of questions regarding the correlation between language and society, including the following:

a) Who uses different linguistic forms (e.g. American English and British English) and why?

b) Do they use different linguistic forms in different situations? When? Why?

c) What determines these differences?

ENGL 306 Medieval Literature
Credit Hours: 3
This course introduces students to the study of language in its sociocultural context, focusing on uses and users of language. It tries to answer a number of questions regarding the correlation between language and society, including the following:

a) Who uses different linguistic forms (e.g. American English and British English) and why?

b) Do they use different linguistic forms in different situations? When? Why?

c) What determines these differences?

d) How do they use different linguistic forms in different situations?

e) How do these differences affect interpersonal communication?
This course provides a study of English literature from the Restoration of Charles II to the throne of England in 1660 and ending with the accession of Queen Victoria in 1837. This period witnessed the beginnings of Enlightenment consciousness, the expansion of the British Empire, and the revolutions that gave birth to the modern political order. Emphasizing the transition from satirical expression to introspective reflection, and historical and cultural development from "Augustan Neoclassicism" to "Romanticism."

Prerequisite
ENGL 157 OR ENGL 373

ENGL 319 Semantics
Credit Hours: 3
The aim of this course is to examine the nature and scope of semantics. Attention will be paid to such topics as Context, Reference, Semantics and Grammar, Utterance Meaning, Semantics and Logic. Set texts will be mostly in the form of a discussion of general principle applied to some data, followed by a number of exercises. Points will be illustrated with examples from both English and Arabic.

Prerequisite
ENGL 157 OR ENGL 348

ENGL 324 Victorian Literature
Credit Hours: 3
This course studies the literary production of the Victorian era. The general cultural and intellectual background of Victorianism will be introduced to understand the rapid social and political changes of the times such as the industrial revolution, urbanization, political reform, the rise of the middle class, material and scientific progress, mass introduction, the transformation to modernity, among other changes. Overall, the course exposes students to the body of literature in its literary-historical context of the second half of the 19th century.

Prerequisite
ENGL 158 OR ENGL 248

ENGL 326 Poetry
Credit Hours: 3
This course familiarizes students with critical terms required for poetry analysis and introduces poetry written in English in England, Ireland, America, and overseas. From medieval times through the Romantic period, to the present. It includes discussions of poetic forms, and examines poems at the junction of poetry, and other literary genres. Artforms as paintings are utilized to provide a challenging approach. The course roots poems in their socio-historical contexts, offers innovative analyses, and provides an overview of current philosophical approaches.

Prerequisite
ENGL 158 OR ENGL 248

ENGL 327 Discourse Analysis
Credit Hours: 3
Discourse Analysis is the study of spoken or written, naturally occurring language. While much of the linguistics focuses on abstract linguistic structure, this course will focus on the things we do with language, including telling stories, holding a conversation, and carrying out forms of interaction specific to particular kinds of social encounters (like courtroom proceedings, doctor-patient consultation, classroom interaction, talk show radio chat). The patterns we find in discourse can tell us something about the social world around us.

Prerequisite
ENGL 157 OR ENGL 372

ENGL 328 Drama
Credit Hours: 3
This course introduces students to the genre of drama and its basic characteristics, beginning with the model of Greek tragedy and a study of Aristotle's Poetics. It will also introduce them to the evolution and development of English drama through its most significant phases. Students will study how plays reflect their respective ages and overarching theme of man vs. fate/desirity, as well as man vs. society.

Prerequisite
ENGL 158 OR ENGL 248

ENGL 330 The Short Story
Credit Hours: 3
This course is designed to introduce students to the genre of the short story and its various types. The texts are selected from the works of well-known American & English writers and vary in length, theme, and technique. Close reading and in-depth analysis of the stories will be applied to enhance the students' knowledge, experience, and skill in critiquing a fictional prose text. The literary elements of short fiction, a brief history of the short story, and writing analytical essays—are all components of the course. Students will be expected to read fully the original texts of approximately 18 to 20 stories and apply critical thinking in study and discussions. The selection should include a variety of short story genres, types, themes, styles, and techniques.

Prerequisite
ENGL 158 OR ENGL 248

ENGL 332 The Novel
Credit Hours: 3
This course introduces students to the English novel as a literary genre, exploring not only the various elements that make up the novel (plot, characterization, time, voice or narrative perspective, narrative techniques, theme, etc.) but also its development in historical, cultural, and thematic contexts. Students also explore timeless moral and ethical questions posed by great novelists. After an introduction to the English novel and its development, the course concentrates on the epoch of great English novels, particularly in the eighteenth and nineteenth century, and provides the students with close reading of selected novels. Among the topics will be major English novels, particularly in the eighteenth and nineteenth century, and provides the students with close reading of selected novels, such as Jane Austen, Charles Dickens, William Thackeray, etc.

Prerequisite
ENGL 158 OR ENGL 248

ENGL 353 Sounds of English
Credit Hours: 3
An introduction to the sounds of English. Topics covered include: segmental phonology (the “letter” sounds of English); syllable structure, stress, and intonation; the articulation of English sounds, including components of the human vocal tract that contribute to these sounds; basics about the different varieties of English (e.g., American English compared to British English); and differences between the sounds of English and Arabic (e.g., English vowels and consonants not in Arabic).

Prerequisite
ENGL 157

ENGL 354 Structure of the English Language
Credit Hours: 3
An introduction to the structure of English language, aiming to develop in students the ability to analyze and describe morphological, syntactic, and semantic structures in English. In addition to the structure of English words and the processes that generate them, the course is optional in their structure and parts of sentences.
ENGL 248  OR  ENGL 156
Prerequisite
The course provides an introduction to the study of poetry and prose. Modernism's challenge to literary form will be related to its historical, intellectual and ideological contexts. Combining approaches to the experimental form of both poetry and prose, the course will encourage students to talk about the aesthetic concerns of modernist writers to aesthetic trends in the period more generally. Writers from the Modernists canon such as Woolf, Joyce, Pound and Eliot will be studied, as well as lesser-known but equally influential figures such as H.D. The course takes an international perspective, reflecting modernism's own transatlantic cosmopolitanism. Key concepts such as gender and politics will also be studied as they relate to and influence modernist writing. Beginning with the differing genres of nineteenth-century poetry, the course allows students to trace the revolutions in poetic expression throughout the twentieth century and how they reflect the changing ideologies of the time.
Prerequisite
ENGL 158  OR  ENGL 248
Credit Hours: 3
ENGL 400
Women's Literature
Credit Hours: 3
This course offers a survey of key women’s writings from the medieval period until the twentieth century, and also involves the discussion and study of particular feminist themes. These include issues such as women’s self-image and finding a voice; definitions of female identity; challenging patriarchy & traditional culture; the role of gender in the production of literature; literary characteristics of women’s writings; the emergence of feminist criticism. The selected readings range from creative works to influential foundational tracts.
Prerequisite
ENGL 158  OR  ENGL 248
ENGL 401
Speech Sciences
Credit Hours: 3
This is a comprehensive course, which teaches the core material of the three areas of speech science: speech production, hearing, and speech perception. The course opens with a unit on basic research skills, techniques, and basic statistics. It then proceeds to the unit on Speech Production, which addresses the anatomy and physiology of speech. This course provides students with the necessary expertise and experience to work in a speech lab, or to proceed to graduate studies in the speech sciences.
Prerequisite
ENGL 216
ENGL 402
Text and Film
Credit Hours: 3
This course provides an interdisciplinary study of literature and film. It examines the relations in the context of word and image debates, intertext discourse, theories of adaptation, theoretical trends in the humanities, and the problem of turning texts into moving images. The course offers a theoretical introduction to questions of representation and issues of ideology, before dealing with the novel / film debate and theories of adaptation. The course explores different strategies of adaptation and narrative transformation, and choices open to film-making.
Prerequisite
ENGL 158  OR  ENGL 248
Credit Hours: 3
ENGL 403
Field Methods
This course gives students first-hand experience and training in linguistic fieldwork, including data archiving, data preprocessing, and linguistic analysis of a non-Western language. The course covers basic research techniques in the form of guided elicitation sessions in class with a language consultant who is a native speaker of the language of study. Phonological, morphological, syntactic, or semantic structures are elicited and analyzed by the students in a research paper which they submit at the end of the course.
Prerequisite
ENGL 157  OR  ENGL 373
ENGL 404
Modernism
Credit Hours: 3
This course is designed to introduce students to modernist poetry and prose. Modernism’s challenge to literary form will be related to its historical context and formal analysis. The course takes an international perspective, reflecting modernism’s own transatlantic cosmopolitanism. Beginning with the differing genres of nineteenth-century poetry, the course allows students to trace the revolutions in poetic expression throughout the twentieth century and how they reflect the changing ideologies of the time.
Prerequisite
ENGL 158  OR  ENGL 248
ENGL 406
Post-Modernism
Credit Hours: 3
This course provides an introduction to postmodernism and its critics, focusing on novels and films. Learning about concepts and techniques deployed in novels and films, and students will demonstrate their destabilizing rhetorical and visual effects. The course will include a discussion of a number of literary concepts such as intertextuality, metatextuality, self-reflexivity, parody, pastiche and collage. We will also explore how postmodern concepts and techniques can be traced in other disciplines such as architecture, visual arts, film, and technological innovations.
Prerequisite
ENGL 158  OR  ENGL 248
Credit Hours: 3
ENGL 408
Post-Colonial Literature
Credit Hours: 3
This course introduces a clear definition of the field and an historical account of its development, and culminates the application of this method of analysis to selected works of colonial and postcolonial literature. It will introduce students to the shift from history to geography which in turn brought the question of power, hegemony and representation into focus. It also includes in the range of its inquiry the comparison of different types of art.
Prerequisite
ENGL 158  OR  ENGL 248
Credit Hours: 3
ENGL 423
Seminar in Linguistics
This course provides students with the opportunity to read and discuss primary research articles in detail, on a topic not covered in the program’s regularly scheduled linguistics courses. The specific topic will be selected by the instructor. Students will read and discuss seminal articles on the topic chosen by the instructor. Student evaluation will be based on their critical response papers
Credit Hours: 3

to article and their level of participation in the seminar meeting discussions.

Prerequisite
ENGL 157 OR ENGL 373

ENGL 424
Modern Drama
Credit Hours: 3
This course analyzes modern plays from the late 19th and the 20th centuries. Selected texts of European drama are studied not only for their aesthetic traits but also innovation. The most significant of these crises is the breakdown of traditions that defined individuals and their relationships to society and culture. Modern drama illustrates individual disillusionment with ideals and historical meaning. We will therefore consider what drama in particular has to offer now and in the future.

Prerequisite
ENGL 158 OR ENGL 248

ENGL 425
Topics in Linguistics
Credit Hours: 3
This course introduces students to special and/or new-trends issues in the study of language at both formal and functional levels. This is meant to keep up with new developments in the field of linguistics without having to change or modify the study plan. It is also meant to provide the students with the chance to pursue a topic relevant to their academic interests that is not offered as a regular course in the program. The course adopts an in-depth approach in which the background and the development of the issue is presented and a format similar to that of other courses in the program. Although this course is offered under the rubric of “Topics in Linguistics,” a specific topic is tagged on to it every time it is offered. The instructor provides a rationale for the selection of a given topic, and its relevance to the program and to the students’ potential interests is particularly highlighted. A basket of proposed topics is annually reviewed by the Department. When a topic is approved for inclusion in the course offerings, the instructor is required to present a fully-fledged course description as it is the case with other courses in the program.

Prerequisite
ENGL 157 OR ENGL 373
ENGL 426
Children’s Literature
Credit Hours: 3
This course will introduce students to the wide variety of literature for children, including poetry, plays, picture-books and prose. We will look at the origins of children’s literature in fairy tales, folk lore and the oral rhythms of nursery rhyme and song. Students will study the differing approaches to the psychology, literacy and individual development found in writing for children.

Prerequisite
ENGL 158 OR ENGL 248

ENGL 428
Topics in Literature
Credit Hours: 3
This course introduces students to special and/or new-trends issues in the study of literature. Students with the chance to pursue a topic relevant to their academic interests that is not offered as a regular course in the program. Although this course is offered under the rubric of “Topics in Literature,” a specific topic is tagged on to it every time it is offered.

Prerequisite
ENGL 158 OR ENGL 248

ENGL 441
English Syntactic Structure
Credit Hours: 3
This course introduces the students to the categories and principle structures of English syntax. The course reviews the morpheme and the word but concentrates on phrase and sentence structures. It also introduces the students to the methods of syntactic analysis and provides them with extensive practical exercises to understand theoretical notions and learn how to approach the syntactic system of English in a scientific way.

Prerequisite
ENGL 373 OR ENGL 310

ENGL 442
Capstone-Integrated Skills
Credit Hours: 3
This course provides an introduction the analysis of spoken and written texts in context. Students will be encouraged to collect, transcribe, and analyze features of conversations, lectures, explanations, interviews, descriptions, and other types of written and spoken texts while reading and discussing theoretical notions underlying language use in English, and identify features of cohesion, involvement, coherence, structure, rhythm, prosody and others.

ENGL 444 Seminar in Lang & Linguistics
Credit Hours: 3
This seminar allows students to specialize in one of several areas of study: language and linguistics. Common training will be given in the correction and presentation of data for a research paper, with students examining models and completing exercises. The later part of the course will take the form of tutorial groups, and presentations, according to specialization.

Prerequisite
ENGL 373 OR ENGL 310

ENGL 445
Topics in Linguistics
Credit Hours: 3
This course provides an in-depth expose to some of the areas in linguistics that fall outside the core areas of linguistic structures. These include historical linguistics; language history and change, and language comparison; socio-linguistics: language variation and language contact; computational linguistics: computers and language analysis, and translation. It may also deal with recent developments in linguistic theory and more advanced issues of linguistic analysis.

Prerequisite
(ENGL 373 OR ENGL 310)

ENGL 446
Semantics
Credit Hours: 3
The aim of the course is to examine the nature and scope of semantics. Attention will be given to such topics as Context Reference and Denotation, Lexical Semantics: Fields and Collocation, Sense Relations, Semantics and Grammar, Utterance Meaning, Semantics and Logic. Set texts will be mostly in the form of a discussion of general principles applied to some data, followed by a number of exercises.

Prerequisite
ENGL 373 OR ENGL 310

ENGL 448
Independent Study
Credit Hours: 1 OR 3
Students are encouraged to develop a research project under the supervision of their instructors. To enhance their collaboration skills, more than one student may embark on one project. Although students are given the liberty to select their individual/collective project, the approval and guidance of instructors is practiced. Specifically, the Capstone project is supposed to reflect the skills and training undertaken throughout the DELL program. Students’ performance is supposed to reflect, in addition to their professional writing and presentation skills, the ability to conduct a goal oriented and methodical research. Specifically, a research question, goal, methodology, and critical analysis of results are highlighted.

Prerequisite
ENGL 375 OR ENGL 318

ENGL 451
Modern Drama
Credit Hours: 3
This course focuses on later drama from the nineteenth and twentieth centuries. Selected texts from Continental, English, and American drama are studied not only for their aesthetic traits but also for the ways they illustrate cultural crises. The most significant of these crises is the breakdown of traditions that defined individuals and their relationships to society and culture. Modern drama illustrates individual disillusionment with ideals and historical meaning.

Prerequisite
ENGL 377 OR ENGL 313

ENGL 453
History of English Literature
Credit Hours: 3
This course incorporates the developments in English literature up to the Modern Period. It relates the various trends and movements in English literature to their social and cultural contexts. This course provides a wide variety of critical and historical background information relevant to studies in English literature.

ENGL 490
Shakespeare
Credit Hours: 3
Our larger goal in this course is first and foremost to think with Shakespeare. By this I mean reading Shakespeare’s plays in order to address questions of ongoing theoretical and practical urgency, in dialogue with but not constrained by the horizons of Shakespeare’s world. Shakespeare: a theatre of evil is designed to expose students to
Shakespeare’s darkest plays and Thought. Using contemporary criticism as a point of entry, this course will establish how and why the question of evil is pervasive throughout Shakespeare’s work. No writer has indeed surpassed Shakespeare in capturing the essence of evil. Shakespeare’s great evilizers—such as Iago in Othello, Edmund in King Lear, Macbeth, and Claudius in Hamlet—are at once believably human and cosmically representative of a battle between good and evil. Trying to answer “the question of evil in Shakespeare” provides an opportunity for glimpsing into the heart of the human condition. The plays will be both studied as distinguished writing and as scripts for performance as several of them have been re-conceived for the big screen. This subject is also at the junction of Literature and Cinema as well as other art-forms such as paintings of the Renaissance period. The course has as its aim to offer an innovative interdisciplinary analysis of Shakespeare as well as an overview of current philosophical approaches.

Finally, the course argues for the critical importance of thinking Shakespeare now. We will therefore consider what Shakespeare has to offer now and in the future and how our past still informs our present and vice versa. Plays include Macbeth, Othello, Hamlet, and King Lear, supplemented by readings in Shakespearean criticism and in contemporary theory.

**Prerequisite**
ENGL 248

ENGL 499

Certiﬁes (Integrated Skills)
Credit Hours: 3

Students take this course at the first or second terms of their senior year in their program. In this course, students embark on a research project under the supervision of their instructors. To enhance their collaboration skills, more than one student may embark on one project. Although students are given the liberty to select their individual/collective project, the approval and guidance of instructors is practiced. Specifically, the Capstone project is supposed to reflect the skills and training undertaken throughout the DELL program. Student performance is supposed to reflect, in addition to their professional writing and presentation skills, the ability to conduct a goal-oriented and methodical research. Specifically, a research question, goal, methodology, and critical analysis of results are highlighted.

ENV 180

Man & Environment
Credit Hours: 2 OR 3

1-Environment Identiﬁcation – Available Natural Resources 2-Environment and Ecosystem 3-Sustainable Development 4-Atmosphere Layers 5-Air Pollution 6-Water Pollution 7-Solid and Hazardous wastes 8-Global Environmental Changes and Human Health 9-Renewable Energy and Conservation

ENV 181

Mankind & Biosphere
Credit Hours: 2


FEDU 400

Management of Learning Environ
Credit Hours: 3

This Course is intended to provide the student with knowledge, skills, and disposition attributes related to Learning management, learning environment. It would also provide him with basic concepts, dimension of learning management, the new trends and strategies in learning management. Problems of learning management and how to deal with it.

**Prerequisite**
FEDU 211

FINA 114

Principles of Finance
Credit Hours: 3

Basic concepts and techniques relating to identiﬁcation of business ﬁnancial needs and their sources, with particular emphasis on ﬁnancial analysis, planning and control, as well as investment decisions relating to working capital.

**Prerequisite**
MAGT 112 AND STAT 222 AND ACCT 111

FINA 201

Principles of Finance
Credit Hours: 3

This course emphasizes the ﬁnancing and investment decisions of the ﬁnancial manager. Topics include ﬁnancial analysis, planning and control, working capital management, time value of money, risk analysis, valuation of bonds and stocks, capital budgeting, and cost of capital.

**Prerequisite**
(MAGT 101 OR MAGT 112 OR INTA 100) AND (MATH 119 OR MATH 101)

FINA 301

Corporate Finance
Credit Hours: 3

This course provides an in-depth analysis of financial decisions involving investment in capital assets and the selection of internal and external sources of long-term funds. Topics include capital budgeting techniques, risk analysis, capital structure, dividend policies, mergers and acquisitions.

**Prerequisite**
FINA 201

FINA 302

Investments
Credit Hours: 3

This course examines alternative investment instruments and environments. This course provides an introduction to risk and return; asset pricing models; portfolio choice; analysis and valuation of bonds, stocks, options, and futures; and, the workings of exchanges and regulations.

**Prerequisite**
FINA 201 AND (STAT 220 OR STAT 155)

FINA 303

Fin Markets & Inst
Credit Hours: 3

This course examines the operations, mechanics and structure of the ﬁnancial system. Topics include commercial banking, non-bank ﬁnancial institutions, money and capital markets, and the impact of monetary policy on ﬁnancial institutions. An introduction to the international ﬁnancial system is also provided.

**Prerequisite**
FINA 201

FINA 304

International Finance
Credit Hours: 3

This course surveys techniques of investment analysis and portfolio management within an international context. Topics include International monetary environment and institutions, determinants of foreign exchange rates and risk management, valuation and portfolio analysis of international stocks and bonds, and foreign investment analysis.

**Prerequisite**
FINA 302 OR MAGT 306 OR (FINA 201 AND MAGT 304)

FINA 305

Public Finance Application
Credit Hours: 3

Financial functions of public administration at state level. Analytical presentation of the ﬁnancial decision making process, ﬁnancial planning, and ﬁnancial welfare. Analyzing the ﬁnancial structure for both internal and external sources. Applying the ﬁnancial analysis indicators and procedures to increase the ﬁnancial efﬁciency of the state.

FINA 307

Fin Inst Management
Credit Hours: 3

Concepts of ﬁnancial institutions management. Main ﬁelds of decision making and methods of evaluating alternative courses of action. Commercial banks and insurance companies are emphasized.

FINA 308

Financial Management
Credit Hours: 3

Some advanced topics in the areas of ﬁnancial analysis, capital investments decisions, ﬁxed assets, ﬁnancial structure, sources of capital, securities and the methods of portfolio analysis.

FINA 323

Mgmt of Financial Firms
Credit Hours: 3

Approaches and policies adopted by ﬁnancial institutions such as commercial banks, Islamic banks, insurance companies and investment funds. Special emphasis will be laid on management of financial ﬁrms operating in the State of Qatar.

**Prerequisite**
FINA 114

FINA 324

Inter Banking Operations
Credit Hours: 3

Managerial aspects of the international banking system, international banking activities, the organizational setup of international banking, foreign exchange risk management, international portfolio and role of multinationals.

**Prerequisite**
FINA 411

FINA 401

Portfolio Management
Credit Hours: 3

This course covers various topics related to portfolio management. Topics include diversiﬁcation and portfolio...
theory, capital market theory, security selection and bond selection; portfolio management: revision of equity portfolio and fixed-income portfolio, risk management with derivative securities, performance evaluation, and portfolio manager’s duties and responsibilities; integrating derivative assets and portfolio management.

Prerequisite
FINA 302

FINA 402
Personal Finance
Credit Hours: 3
This course provides an overview of fundamental concepts of personal finance. Topics include types of investment securities, retirement and real estate planning, insurance planning, budgeting, credit, home ownership, and savings.

Prerequisite
FINA 201

FINA 403
Insurance & Risk Management
Credit Hours: 3
This course addresses and examines the basic risk theory and elementary risk management principles and techniques. Topics include life insurance and annuity products, property/liability insurance, life/health insurance, and selected social insurance programs, insurers and their operations, guidelines for efficient purchase and use of insurance products. Special attention is given to the attitudes of consumers towards life and general insurance in GCC countries and the role of insurance companies as non-banking financial institutions.

Prerequisite
FINA 201 AND STAT 222

FINA 404
Islamic Banking & Finance
Credit Hours: 3
This course introduces the concept of economic behavior of a society that adheres to the Islamic doctrine; economic properties of an Islamic economy, general equilibrium and macroeconomic policies in Islamic economies, Islamic banks and finance and the role of the stock exchange in an Islamic economy. Other topics include basic differences between Islamic banks and conventional banks; financial instruments of Islamic banks; profit/loss sharing method of finance is compared with fixed interest charges. The relationship between Islamic financial institutions and the Central Bank is analyzed.

Prerequisite
FINA 201 AND (STAT 220 OR STAT 155)

FINA 405
Financial Derivatives
Credit Hours: 3
This course focuses on options and futures markets, investment and risk management strategies using these derivative products, and pricing of options and futures contracts. Additional coverage includes basic swap agreements and exotic options.

Prerequisite
FINA 302

FINA 410
Financing for Entrep. Ventures
Credit Hours: 3
The focus of this course is to analyze the unique financial issues which face entrepreneurial firms and to develop a set of skills that has wide applications for such situations. The course covers venture capital industry and its players, sources of financing, legal aspects of venture capital, cost of capital and valuation, investment feasibility and comparable analysis, real options, and game theory.

Prerequisite
MAG 303

FINA 411
Financial Management
Credit Hours: 3
Financial planning and control, as well as capital investment decisions under uncertainty, in addition to main financial policies adopted by the firm and its capital structure.

Prerequisite
FINA 114

FINA 416
Portfolio Analysis
Credit Hours: 3
Basic concepts related to modern portfolio theory, characteristics of securities, analysis and selection of portfolio, asset pricing model, equilibrium model and assessment of securities.

Prerequisite
FINA 114

FINA 429
Insurance
Credit Hours: 3
Structure-conduct-performance paradigm of the insurance industry; insurance contract, insurance policies for different kinds of insurance, insurance premiums and reserves. Special attention is given to the attitudes of consumers towards life and general insurance in GCC countries. The role of insurance companies as non-financing banking institutions will be assessed and the future of the insurance industry is examined.

Prerequisite
FINA 411 AND ECON 112

FINA 432
Money & Capital Markets
Credit Hours: 3
Introduction short-term and long-term financial markets, financial and non-financial institutions, banking regulation, the GCC stock markets, efficiency markets, money market rates and the common stock returns, randomness of stock market movements, the arbitrage pricing theory, international stock markets.

Prerequisite
ECON 112 AND STAT 222

FINA 455
Islamic Banking & Finance
Credit Hours: 3
Introduction of the concept economic behavior of a society that adheres to the Islamic doctrine; economic properties of an Islamic economy, general equilibrium and macroeconomic policies in Islamic economies, Islamic banks and finance and the role of the stock exchange in an Islamic economy. Other topics examined with further emphasis include basic differences between Islamic banks and conventional banks; financial instruments of Islamic banks; profit/loss sharing method of finance is compared with fixed interest charges. The relationship between Islamic financial institutions and the Central Bank is analyzed.

Prerequisite
ECON 331

FINA 461
International Finance
Credit Hours: 3
International credit markets, equity markets and foreign exchange markets, globalization and the distinction between real and economic returns and asset markets, macroeconomic schools of thought and the international payments system.

Prerequisite
ECON 212

FIQH 101
Introduction to Fiqh
Credit Hours: 2 OR 3
This course aims to acquaint students with Islamic jurisprudence, its sources, terminology, domain, rules, theories, schools, stages of development. It introduces definitions of Sharia and jurisprudence “fiqh” and explicates their properties and the relationship between them. It also expounds the relation of Sharia to prior legal systems and positive law. It also studies the history of Islamic jurisprudence; evolution of schools of legal thought, their text book and terminology, codification of Islamic jurisprudence, the definition of principles of Islamic jurisprudence the most important text book of agreed and agrees legal evidences and some legal theories.

FIQH 210
Commercial Fiqh I
Credit Hours: 3
This course aims to define sales, conditions of contracts, kinds of options and prohibited sales. It also shows each type of prohibited sale and the rationale of prohibition. Further the course studies: abolition of sales, currency and money sale, financial markets, goods and stock exchange markets and conditional sales and their rules. This course studies the right of preemption: its meaning, conditions, evidence thereof and its rule of inheritance, mortgage: rules, kinds of mortgage, mortgage in possession and guaranty mortgage, admissible and inadmissible mortgages, mortgaging bonds and shares.

FIQH 212
Personal Fiqh I
Credit Hours: 3
This course aims to raise the awareness of the new generations about the dangers of separation for the family and the community alike, clarify the types of separation such as divorce and the wisdom of legitimating it. This course explains the reasons of divorce and deputizing in divorce repudiation (divorce for monetary compensation) separation for maltreatment, separation for indigence, separation for cursing one another, separation for apostasy and the consequences of covenant such as the recess, alimony, housing, legitimacy of parental nurture and custody and the expenses thereof. The course compares all of the above with Qatari (Family law) personal status law.

FIQH 214
Commercial Fiqh II
Credit Hours: 3
This course includes: lease contracts for objects and utilities, the nature of a lease contract, its basis, conditions, guarantees and guaranty mortgage, admissible and inadmissible mortgages, mortgaging bonds and shares.
This course aims to satisfy the needs and longings of the soul in the field of Zakat and Hajj. This course includes Zakat jurisprudence, which enables students to obtain knowledge of the legitimacy of Zakat, its conditions, and types of property that are subject to Zakat, such as agricultural produce, gold, silver, etc. The course also explains to students the areas of expending Zakat and modern applications, the Zakat of shares and bonds, how to invest revenues of Zakat. In this course, students get to know Aifler Aims and its ruling, the definition and wisdom of Hajj and Umra together with their types and rules of performance.

This course deals with the Islamic ruling in terms of money and utilities, debts and their divisions into equivalent and ad valorem, the definition of property and the cause of proprietorship, ownership concept of utility, intellectual property rights, ownership of minerals, archeological remains, treasures, limitations on ownership, definitions of ownership, definition of contract: its basis, conditions and types, defects of consent, options and individual will.

This course covers the legal provisions of Zakat, its legitimacy, general conditions, the kinds of wealth in which Zakat is prescribed, and rules of zakat in goods, jewellery, legacies, stocks, bonds, and banks, and the rules of the Waad and its role in Takatif and Islamic insurance.

This course is designed as an introduction to Islamic Fiqh, covering the nature of companies and its general rules, its different kinds such as sharikat Anan, sharikat waqf, sharikat Aamal, musahama, takharuj, return, al-Rad, al-Hajb, al-Takhrium, waqf, endowments, and qard, loan.

This course introduces the definition of utility (aifler), conditions, and the act, the subject, and examines this course deals with the definition of Bills of Exchange, their legitimacy, basis, conditions of validity, and modern applications. The course also defines securities, their basis, conditions of validity, security of property and their modern application.

This course is designed as an introduction to Islamic jurisprudence, demonstrating its characteristics, importance, various historical stages, sources, schools of thought, and various fiqh terminologies. It also examines the most important theories of jurisprudence, and the challenges faced by Islamic jurisprudence in the present era, as well as how to develop and promote it. This course deals with the Islamic ruling in terms of money and utilities, debts and their divisions into equivalent and ad valorem, the definition of property and the cause of proprietorship, ownership concept of utility, intellectual property rights, ownership of minerals, archeological remains, treasures, limitations on ownership, definitions of ownership, definition of contract: its basis, conditions and types, defects of consent, options and individual will.

This course aims to elaborate the concept of worship in the legislation, also shedding light on the abilities of students to know which utterance refers conceptually and which ones refer by their contrary. This course also aims to study how authoritative is consensus, the types of consensus, how they are reported. Finally, the courses deals with judicial colleges and do they achieve consensus.

This course covers the meaning of philosophy of legislation elaborating on the establishment of the Islamic rules on the aphorisms, reasons and objectives, examining the issue of worship in the legislation, also shedding light on the philosophy of consensus as whole as well as each part of the ruling in Islamic Sharia.

This course is designed to elaborate the concept of jurisprudence, demonstrating the theory of justice, the ethics pertaining to the judge and the history of judiciary in Islam, dealing with the most important books in this field and sheds light on the elements and conditions of the case, the claimer and the defendant, status of the judge and semi judiciary.

This course is designed to study the Islamic system of Inheritance, its causes and impediments, and elaborates on the inheritors (wararitha), Residuary (Ali-asaba), Exclusion (Ali-Hajb), return (al-Rad), Devolution (munasaka), Denominator (Al-Takharuj) Increase (Al-Asaba), Exclusion (Al-Hajb), return (al-Rad), Devolution (munasaka), Denominator (Al-Takharuj) Increase (Al-Asaba), and a comparison between Islamic International law and its advantages, themes, emergence and development.
FIQH 416

**Fiqh Theories**

**Credit Hours:** 2

The course includes the importance of a juridical theory, its concept, development, history and properties. The course studies the theory of necessity, the theory of right, the theory of arbitrary use of right, and the theories of invalidity and unsoundness.

FIQH 417

**Oaths, Vows, Atoneement & Food**

**Credit Hours:** 2

This course aims to acquaint students with the ruling of self-imposed obligations (faiths/vows and atonements). The course also deals with the ruling of Sharia on foods, the permissible and the prohibited. The course also gives a background to each of the above mentioned topics.

FIQH 418

**Contemporary Ijtihad**

**Credit Hours:** 2

This course deals with Ijtihad (derivation of the hukm) in terms of definition, elements, conditions, its emergence and importance and examines various grades and classes of Muftahin. It also covers individual and collective Ijtihad and al-Ijtihad al-juz'ee, the codification of Islamic law, elaborating on the issue of Fatwa and Taqleed and Partial Ijtihad (al-Ijtihad al-juz'ee). It also covers individual and collective Ijtihad, and the approach of press articles (texts dealing with various topics). Concerning written skills the students will be asked to write descriptive paragraphs, to substantiate the main concepts of a text and identify logical tags, they finally should be able to make a resume. In the field of grammar different verbal forms will be taught. Work in the laboratory: the nasal vowels; transcription. Grammar: structural exercises in connection with the lexical and syntactic elements of the two courses.

FIQH 425

**Al-Qiyas (Analogy)**

**Credit Hours:** 2

The course covers the definition of Qiyas (Analogy), its authority, elements, conditions, and different types and highlights the reason, wisdom, and appropriate pathways through which reason could be discovered and focuses on the areas where Qiyas is applicable and not.

FREN 100

**French Language-Beginners**

**Credit Hours:** 2

This is a practical course covering a variety of communication skills with a view to helping the student understand how the French language functions.

FREN 101

**French Language I**

**Credit Hours:** 3

This course is designed for students who wish to begin learning French. It will help them become familiar with the foundation of the French language, and the develop the four basic language skills of reading, writing, listening and speaking.

FREN 110

**French I**

**Credit Hours:** 2

This is an activity-based course taking students from beginner to pre-intermediate level. It progresses at a pace that is easy for the students to follow with an emphasis on language skills and structure.

FREN 111

**French II**

**Credit Hours:** 2

This course is a continuation of French (1) and focuses on developing the same language skills at a more advanced level. The emphasis remains on students'practical use of French and oral drills in the laboratory.

FREN 201

**French Language II**

**Credit Hours:** 3

Students will continue to develop their knowledge and understanding of French through the four skills: listening, speaking, reading and writing. This course will enable students to communicate in the language at a basic level in a variety of everyday situations.

FREN 210

**French III**

**Credit Hours:** 2

This is an intermediate to upper intermediate course concentrating on listening comprehension, reading skills and grammatical structure. The students will learn the various forms of the verb and will be introduced to some basic writing skills. Work in the lab will focus on the nasal vowels and phonetic transcription.

FREN 221

**French IV**

**Credit Hours:** 2

This is a continuation of French III and focuses on developing the same language skills at a more advanced level.

FREN 222

**Intro to Modern French I**

**Credit Hours:** 2

These are introductory courses. Students are required to master simple sentence construction through grammar exercises and work in the language laboratory (phonetics: oral vowels and grammar). The courses also aim to introduce students to the use of dictionaries (French/French) and other reference books.

FREN 223

**Intro to Modern French II**

**Credit Hours:** 2

These are introductory courses. Students are required to master simple sentence construction through grammar exercises and work in the language laboratory (phonetics: oral vowels and grammar). The courses also aim to introduce students to the use of dictionaries (French/French) and other reference books.

FREN 301

**French I**

**Credit Hours:** 2

This is an upper-intermediate to advance level with emphasis on reading contemporary texts. The students will be introduced to the use of the modal verbs and negation. Attention will also be paid to problems relating to the pronunciation of consonants by Arab speakers of French.

FREN 310

**French V**

**Credit Hours:** 2

This is a continuation of French V and focuses on the same skills at a more advanced level.

FREN 321

**Intermediate French I-Part A**

**Credit Hours:** 2

This course is a continuation of the Introduction to French I and focuses on oral listening and a study of everyday language through the approach of press articles (texts dealing with various topics). Concerning written skills the students will be asked to write descriptive paragraphs, to substantiate the main concepts of a text and identify logical tags, they finally should be able to make a resume. In the field of grammar different verbal forms will be taught. Work in the laboratory: the nasal vowels; transcription. Grammar: structural exercises in connection with the lexical and syntactic elements of the two courses.

FREN 322

**French VI**

**Credit Hours:** 2

This is a continuation of French VI and focuses on the same skills at a more advanced level.

FREN 211

**French V**

**Credit Hours:** 2

This is an intermediate to upper intermediate course concentrating on the ruling of French on foods, the nasal vowels and phonetic transcription. Grammar: structural exercises in connection with the lexical and syntactic elements of the two courses.

FREN 222

**Intro to Modern French**

**Credit Hours:** 2

These are introductory courses. Students are required to master simple sentence construction through grammar exercises and work in the language laboratory (phonetics: oral vowels and grammar). The courses also aim to introduce students to the use of dictionaries (French/French) and other reference books.

FREN 223

**Intro to Modern French II**

**Credit Hours:** 2

These are introductory courses. Students are required to master simple sentence construction through grammar exercises and work in the language laboratory (phonetics: oral vowels and grammar). The courses also aim to introduce students to the use of dictionaries (French/French) and other reference books.

FREN 311

**French V**

**Credit Hours:** 2

This is a continuation of French V and focuses on the same skills at a more advanced level.

FREN 321

**Intermediate French I-Part A**

**Credit Hours:** 2

This course is a continuation of the Introduction to French I and focuses on oral listening and a study of everyday language through the approach of press articles (texts dealing with various topics). Concerning written skills the students will be asked to write descriptive paragraphs, to substantiate the main concepts of a text and identify logical tags, they finally should be able to make a resume. In the field of grammar different verbal forms will be taught. Work in the laboratory: the nasal vowels; transcription. Grammar: structural exercises in connection with the lexical and syntactic elements of the two courses.

FREN 322

**French VI**

**Credit Hours:** 2

This is a continuation of French VI and focuses on the same skills at a more advanced level.

Pre-Requisite

**FREN 221**

Pre-Requisite

**FREN 310**

Pre-Requisite

**FREN 311**

Pre-Requisite

**FREN 321**

Pre-Requisite

**FREN 222**
**FREN 322**
Intermediate French I-Part B

Credit Hours: 2

These courses are concerned with written texts. Students will gradually move from article to contemporary text which will be tackled in depth. In the field of grammar the course concentrates on the use of the modals and the negotiation of arguments (argumentation). Language Laboratory: Phonetics: the problem of consonants for Arabic speakers.

Prerequisite FREN 321

**FREN 421**
Intermediate French II-Part A

Credit Hours: 2

These courses are concerned with written texts. Students will gradually move from article to contemporary text which will be tackled in depth. In the field of grammar the course concentrates on the use of the modals and the negotiation of arguments (argumentation). Language Laboratory: Phonetics: the problem of consonants for Arabic speakers.

Prerequisite FREN 322

**FREN 422**
Intermediate French II-Part B

Credit Hours: 2

These courses are concerned with written texts. Students will gradually move from article to contemporary text which will be tackled in depth. In the field of grammar the course concentrates on the use of the modals and the negotiation of arguments (argumentation). Language Laboratory: Phonetics: the problem of consonants for Arabic speakers.

Prerequisite FREN 421

**GENG 107**
Engin Skills and Ethics

Credit Hours: 3

Introduction to engineering and engineering disciplines, engineering ethics, communication skills, study skills and problem solving skills, introduction to design.

Prerequisite MATH 101

**GENG 211**
Engineering Graphics

Credit Hours: 3

This course discusses the fundamental concepts of engineering graphics. It also provides an introduction to computer graphics using CAD software. The following topics are covered: Drawing conventions such as standards, line types and dimensioning; drawing of inclined and curved surfaces; deducting the orthographic views from a pictorial; drawing full and half sections; deducting an orthographic view from given two views; pictorial sketching (isometric and oblique).

**GENG 212**
Engin Mechanics I-Statics

Credit Hours: 3

Fundamental concepts and principles of mechanics, vectors, and force systems. Centroids and centers of gravity. Moments of inertia. Concepts of free-body diagram, principles of equilibrium of particles and rigid bodies in two and three dimensions

Prerequisite MATH 101

**GENG 222**
Engin Mechanics II-Dynamics

Credit Hours: 3


Prerequisite GENG 211 AND PHYS 191 AND PHYS 191

**GENG 231**
Materiails Science

Credit Hours: 3


Prerequisite MATH 101 AND CHEM 101

**GENG 300**
Numerical Methods

Credit Hours: 3

The numerical methods course involves solving engineering problems drawn from all fields of engineering. The numerical methods include: error analysis, roots of nonlinear algebraic equations, solution of linear and transcendental simultaneous equations, matrix and vector manipulation, curve fitting and interpolation, numerical integration and differentiation, solution of ordinary and partial differential equations.

Prerequisite ( GENG 106 OR CMPS 151) AND ( MATH 211 OR MATH 102 AND MATH 231)
Introduction to Remote Sensing
Credit Hours: 3
The course covers the following topics: Concept of remote sensing, its history (stages of progress and use of remote sensing), various types of remote sensing (its components, electromagnetic energy, the interaction of energy with the atmosphere). The mediums of remote sensing which include photographic (non-color films, infrared films, standard color films, and infrared color films) and non-photographic medium. Aerial photography (simple instrument, processing non-color, color, and infrared films). Remote sensing satellites: Multi-Spectral Scanner (MSS), Thermal Scanners (TS), Thematic Mapper (TM). Microwave (radar and radiometer). Mathematics of aerial photography: measuring elevation from paired/overlapped photographs, relief displacement, aerial photography interpretations.

Prerequisite
GEOG 240 OR GEOG 239

GEOG 300 Geography of Arab World
Credit Hours: 3
This course is an introduction to the Arab World. It covers a physical study of the Arab World, introduction to the geographical position and its spatial characteristics, international geopolitical situation, structural geography, topography, climate- regional climate, natural plants and their distribution, as well as seas. It also covers the Economics of the Arab world: Agriculture production, physical and human being elements, biological and water resources, mineral resources, energy sources, geographical distribution of petroleum productions, consumption and trading, industry, transportation. Arabian economic corporations, problems facing the Arab world and studying some Arab countries.

GEOG 344 Political Geography
Credit Hours: 3
Political geography definitions; comparison with political, economic, and geopolitical sciences; research methods in political geography, issues in neo- political geography; the notion of the "state" in political geography, state (physical & human) components; the notion of "space" for the state: capitals; local and international policies; political boundary future, the establishment of boundaries and developments since the rise of nation-state, marine boundaries, regional boundaries, boundaries and relations with human phenomena, cases which focus on political boundaries; the notion of political blocs and its relation with supra-nationalism. Notice: all case studies and practices should consider Arab and middle east examples.

GEOG 346 Introduction to GIS
Credit Hours: 3
This course is divided into two parts: theory and practical parts. Theory section: covers the following topics: Concept of Geographic Information Systems (GIS): definition of GIS, technologies related to this system, formats of GIS application. Components of GIS which include five components: hardware (computers, units of data storage, entry and output), software (users) (including management, professional and various users), data (their sources), and the GIS applications. GIS basic functions: input, storage and entry of data, data processing and analysis, and data output. Type of geographic data and their organization: main two types of data (raster and vector data); design and implementation of geodatabases. Methods for planning and implementing a successful GIS project using one of the available GIS systems in the department.

Practical section: Training students on the preparation of a complete GIS workstation, develop student’s ability to analyze and compare different GIS systems available in the department to recognize their strengths and weaknesses. Hands-on experience on various methods of geodatabase design to hold geographic data of a project. Train students on mechanisms of data sharing and data conversions (due to the fact that most GIS data are held in different formats). Conduct all stages of a GIS project with local scenarios using one of the available GIS software packages.

GEOG 357 Geography of the World
Credit Hours: 3
This course aims at studying the global environmental systems and the imbalance these systems are facing. The course includes three parts: The first part: introduction to the environmental systems of the earth and the mutual relationship between the environmental components and the living species. The second part: studying the negative effects of human activities on the environmental imbalance. The third part: focuses on different types of the environmental pollution, air pollution and its consequences on public health, water pollution, radiation pollution, noises pollution and marine pollution. This course aims at studying the global environmental systems and the imbalance these systems are facing. The course includes three parts: 1) Introduction to the environmental systems of the earth and the mutual relationship between the environmental components and the living species. 2) Studying the negative effects of human activities and the environmental imbalance. 3) Focuses on different types of the environmental pollution, air pollution and its consequences such as acid rain and the deterioration in the ozone ; radiation pollution, noises pollution and marine pollution. GEOG 448 Hydrogeography
Credit Hours: 3
This course deals with hydrology in a holistic view. Water resources remain of great worldwide concern due to the necessity of water in our daily life. That is why this course will handle this issue in its diverse dimensions and aspects: Hydrology: purpose, branches, development, character of water, typology, general hydrological cycle. Continental water: rivers, lakes, swamps, and groundwater. Seas and oceans and Water usage. Non-conventional drinking water resources: desalination, recycled water, water import, bottled water, cloud seeding, collateral fog, icebergers. Water scariness: causes and ways to enface it. Means to control water demand: juridical tools, technical tools, economic tools, social tools, decision making and management. Water and the future. Water jurisdiction. Styles and approaches of drinking water management. Sustainable development of drinking water resources in the State of Qatar.
GEOL 321  
Struc Geology & Geotectonic  
Credit Hours: 3  
Evolution of Earth through geologic time, internal structure of the Earth, continental drift theory, isotropy, convection currents, paleomagnetism, sea floor topography, plate tectonics, ocean-floor spreading, asthenosphere, hot spots, major plate boundaries, economic implications.

Prerequisite  
GEOL 101

GEOL 322  
Survey & Field Geology  
Credit Hours: 3  
Introduction and main concepts of field work, field observations, collection of samples and data, principles of plane surveying using different methods, techniques & instruments for measurement of distances, horizontal and vertical angles, use of compass, clinometers and hand chisel for geologic sampling, sketching and topographic mapping, identification of geologic structures in the field.

Prerequisite  
GEOL 101

GEOL 332  
Geophysics  
Credit Hours: 3  
Physical properties of rocks, seismic method (introduction), mechanical properties, equipment, reflection method, refraction method, data analysis and interpretation, gravity method, earth's gravity field, equipment and field survey.

Prerequisite  
GEOL 101

GEOL 401  
Geochemistry  
Credit Hours: 3  
Introduction to the earth, chemistry of the Earth, isotopes, distribution of elements, earth structure, geochemistry of igneous rocks, metamorphic rocks, sedimentary rocks, hydrothermal, environmental geochemistry.

Prerequisite  
GEOL 101

GEOL 403  
Economic Geology  
Credit Hours: 3  
Identification, distribution, origin, ore grades of metallic, nonmetallic rocks, ore deposits, mineral exploration, techniques, mineral wealth.

Prerequisite  
GEOL 101

GEOL 411  
Geol of Qt & Arabian Pen  
Credit Hours: 3  
General Geology of Saudi Arabia, Qatar and Oman, Geology of the Cambrian rocks in Western Arabia, structural elements of the Arabian Peninsula, stratigraphic nomenclature of the Arabian Peninsula and Qatar (Paleozoic from Recent), mineral and petroleum resources.

Prerequisite  
GEOL 101

GEOL 421  
Photogeology & Remote Sens  
Credit Hours: 3  
Introduction to the principles, equipment, materials and methods for aerial image acquisition, electromagnetic spectrum, basic spectral properties of Earth features and atmospheric interaction, aerial photo geometry and mapping.

Prerequisite  
GEOL 101

GEOL 423  
Geology of Petroleum  
Credit Hours: 3  
Introduction, historical background, relation of petroleum geology to other sciences, physical & chemical properties of petroleum, geologic & geophysical characteristics of oil, the reservoir, traps, and seals, reservoir estimation.

Prerequisite  
GEOL 101

GEOL 434  
Hydrogeology  
Credit Hours: 3  
Fundamentals of groundwater hydrology, reservoirs, water quality and groundwater contamination, groundwater surveying and development and management.

Prerequisite  
GEOL 101

HECO 182  
Mother & Child Care  
Credit Hours: 3  
This course aims at providing students with the scientific facts related to the topics of motherhood and childhood, which covers the various stages of a mother’s life starting from the pubertal stage to the pregnancy and birth stage, and what helps her discover her tasks during the stage of motherhood. This course includes the factors that affect the mother’s health and well-being during the prenatal stage, perinatal, and postnatal stages, and some difficulties that some mothers face during pregnancy and breastfeeding. The course also covers caring for breastfed infants and the factors affecting their development after birth, as well as the common problems during the first year of a child’s life and how to care for them.

HECO 283  
Family Relationships  
Credit Hours: 3  
This course was designed to enable students to acquire wide knowledge on family and family relations. It deals with the definition of the family, its functions, and characteristics while concentrating on the factors leading to the changes in family structure and its functions. It also discusses some theories dealing with the origin of the human family. The course also discusses the requirements of family growth stages as well as the critical situations that the family pass through during these situations besides suitable solutions. This course concentrates also on marriage and coordination in married life, factors leading to family members’ lack of coordination, its relation and problems in the Qatari society. This is to be dealt with through students’ research.

HECO 489  
Nutrition Education  
Credit Hours: 2  
This course aims at acknowledging students with the topic of Nutritional Enlightenment and its objectives, traditions and customs and their effects in Nutrition Education. It also deals with the role of the mother and school in Nutrition Education, dealing with wrong bad habits and methods of evaluating them. The students set up nutrition programs for different society categories, taking care of methods and means of nutrition acculturation according to the needs of the society. They identify the bases for preparing and planning the different nutritional programs as well as methods of evaluating them, in addition to a brief note on nutrition survey, its objectives and uses.

HIST 103  
An Introduction to History  
Credit Hours: 3  
This history gateway course traces the key themes of history. The course explores the concept and meaning of history. It enables students to develop critical and analytical thinking skills through examination of primary and secondary sources, as well as research and writing processes, which includes different modes of historical writing such as arguments, along with class presentations and discussions. This course covers history of the world before 300 AD.

HIST 111  
History of the Muslim World I  
Credit Hours: 3  
This course surveys the emergence and growth of the Islamic community, from the time of the Prophet Muhammad to the end of the twelfth century. Topics covered include the rise and spread of Islam, the Islamic empire under the Umayyads and Abbasids Caliphs and the emergence of regional Islamic states from Afghanistan and Eastern Iran, to North Africa and Spain. The course concludes with Muslim recapturing of Jerusalem in 1187. The course emphasizes the structure of social and political institutions.

HIST 121  
History of Qatar  
Credit Hours: 3  
This course aims at familiarizing students with the history of Qatar through different historical eras, with particular emphasis on the emphasis and development of Qatar Emirates during the Ottoman-British rivalry in the Gulf. The course also deals with social, economic and political life during the pre and post oil and Gas era. It examines the socio-political and economic developments that took place in the country covering the period of his Highness, Sheikh Hamad bin Khalifa Al Thani.

HIST 131  
World History Since 1300  
Credit Hours: 3  
This course examines key transition in world history since 1300 CE. Topics covered include intensified hemispheric interactions, emergence of the First Global Age (1450 -1770), creation of a world market, the age of revolutions, and emerging modern capitalist societies as modernization and colonization. The course emphasizes the formation and development of the world’s major societies, and systematically explores cross-cultural interactions and exchanges that have been some of the most effective agents of change since 1300 CE.

HIST 204  
Historiography  
Credit Hours: 3  
This course examines the rise of historiography, and its evolution from oral narrative to written, discussing the schools of history, and philosophies, and methods in the interpretation of history. It also highlights
the nature of primary and secondary sources, their critique, and employment in historical writings. The course provides a systematic overview of the requirements of writing history, and methods and techniques that a historian depends on in writing history.

Prerequisite:
HIST 103 OR HIST 188 OR HIST 188

HIST 212 History of the Muslim World II
Credit Hours: 3
This course is a continuation to the History of the Muslim World I course. It aims to introduce students to the most prominent political, military and economic events in the Muslim world from 583 AH / 1187 CE to 923 AH /1517 CE. It begins with the liberation of Jerusalem by Salah al-Din, the Impression of the Muslim world under the Ayyubids, Mamluks and other rulers. It also looks at the advent of Mongols and their destruction of Baghdad in 1293CE, which resulted in ending the Abbasid Caliphate. The course ends with the decline of the Mamluks state at the hands of the Ottomans.

Prerequisite:
HIST 111 OR HIST 262

HIST 213 Ancient Arab History
Credit Hours: 3
This course traces the social, cultural, economic, and political changes that contributed to the foundation of today's modern Arab societies. It examines the changing fortunes of the political elite, merchants, shopkeepers, peasants, tribal populations, religious scholars, women, as well as ethnic and religious minorities during the reign of the Ottoman Empire. Students will learn how to examine and interpret primary sources relevant to the period covered.

HIST 217 Islamic Civilization
Credit Hours: 3
This course focuses on the concept of civilization, the rise and historical circumstances that helped in establishing the Islamic civilization, its interrelation with the other civilizations, and its contributions to the world culture and heritage. The course deals with the foundation of the Islamic state, its administrative, financial, judicial and social institutions. In addition, it is devoted to examine the social, economic, and intellectual activities of Muslims and their impact on other civilizations up to the 16th century.

HIST 222 The Gulf in Modern Period

HIST 231 Europe & the World since 1500CE
Credit Hours: 3
This course examines European social, economic, political, and cultural development since the 1500s, and its impact on the early modern and modern world history. Topics covered include the intellectual contribution of the Renaissance, Reformation, and Enlightenment, the arts, fashion, travel, the Industrial Revolution, Romanticism and Realism, nationalism, feminism, imperialism and colonialism, World War I and II, and the Cold War era.

HIST 240 Hist & Civil of Anc Egypt
Credit Hours: 3
Discovery of the Ancient Egyptian Civilization and Study Sources, Characteristics of Ancient Egyptian History from the Old Kingdom to the Macedonian Conquest, Unification of Egypt, the Old Kingdom, the Middle Kingdom, the New Kingdom (Empire), the Persian Period and Fall of the Pharaonic State, Bases of the Ancient Egyptian Civilization and government system, economic, social and intellectual life.

HIST 241 Ancient Near East Hist & Civl
Credit Hours: 3
Sources of the History of the Near East, Characteristics of Mesopotamian History during the Sumerian, Akkadian, Babylonian and Assyrian Periods, Foundation of the Babylonian Empire and its Fall, Characteristics of the History of Syria from the Third Millennium B.C. to the End of the Second Millennium B.C., International Relations during the Second Millennium B.C., States in Syria and Palestine during the First Millennium B.C., Rise and Fall of the Persian Achaemenian State.

HIST 244 History & Methodology
Credit Hours: 3
Concept and Methodology of History, History as a Science, the Historian's Scientific, Cultural and Moral Formation, Sciences that Support the Historian, Sources of Modern and Contemporary History, the Scholarly Approach to Historical Research Writing, Technical Rules of History Writing, Schools of Historical Interpretation

HIST 245 Ancient Greek & Roman
Credit Hours: 3
Sources of Greek and Roman History, the Hellenistic Period, Greek Colonization and its Results (8th Century-6th Century B.C.), Development of Greek City-state to the End of the 6th Century B.C. (Sparta and the Peloponnesian Alliance, Athens and evolution of its systems), Persian-Greek Wars, Rise of the Athenian Empire, the Peloponnesian Wars, General Conditions in the Greek World up to the Age of Alexander the Great. Peoples of Italy before the Foundation of Rome, Rome during the Monarchy, Rise of the Republic, Italian Unification Led by Rome, External Expansion and the Roman-Carthaginian Conflict, Roman Policy towards the Eastern Provinces, Revolution, Civil War and Fall of the Republic, Augustus and Rise of the Empire, Roman Rule in the East up to the Early Imperial Period.

HIST 248 Hist of Arabs Before Islam
Credit Hours: 2
The Arabs and Their Genealogies, the Arabian Peninsula and Arab Tribes, Southern Arabia and Southwestern States, Northern Kingdoms (Nabatis and Palmyrants), Cities of Hejaz (Makkah, Yathrib and Ta’if), Border Emirates (Qasrays, Ghafrs, Kinda Kingdom, General Conditions in the Arabian Peninsula before the Advent of Islam.

HIST 314 Econ&Soici Hist the Muslm World
Credit Hours: 3
This course examines Islamic world’s agriculture (indigenous and imported), food and industrial crops, irrigation and trade. It discusses Islamic economic growth and its impact on rural areas; metallurgy and other industries; trade and marine routes; companies and monopolies; the merchant class (Qanadub); Bases of the Islamic economic system, the role of women in the economy; religious influences such as essays, reaction and research papers will contribute to improving students’ critical and analytical thinking.

HIST 318 History of Al-Andalus
Credit Hours: 3
This course deals with the history of Andalusia from the sixth to the eighth century. It examines many topics, such as the Umayyad period, Islamic conquest, Islamic states in Andalusia, society and culture, and the Reconquista movement up to the fall of Andalusia in 1492. The course will shed light on the relations between the Muslims states in north Africa (Maghrib) and the Islamic state in Andalusia from the Muslim conquest until the end of Islamic power in the area.

HIST 319 History of the Crusades
Credit Hours: 3
An intensive study of the wars between Western Europe and Islam that took place in the Holy Land from the late eleventh to the late fifteenth century. Special emphasis is placed on the analysis of the crusading ideal, the motivations of the crusaders, the changes in crusaders' ideas about the Muslim responses to Christianity, the Crusades, Muslim awakening and role in liberation of their lands. Lastly, the course concludes by discussing the results and cultural influences of the Crusades on Europe.

HIST 320 Hist of Islam Sect & Move.
Credit Hours: 3
This course aims at studying social, economic, intellectual and political developments that had accompanied the establishment of the state of Islam. It also focuses on the division of the umma as a result of the first period of Fina between 30-40 A.H. The course also sheds light on the crystallization of the nation of state (Ahla al-Jama’a); the emergence of sects; political and religious oppositional parties’ opinions towards economic, social and political issues; and the state’s position towards these opinions.

HIST 322 Iran and its Neighbours
Credit Hours: 3
In this course, the students will study Iran’s relationship with its neighbours during the modernperiod, beginning with the early Persian dynasties; their subsequent domination of Central Asia; conflict with the local and regional powers; and the impact of superpowers such as Russia, the Ottoman Empire, Britain, and Portugal. The students will also study Arab presence in the eastern parts of the Gulf and its influences on Iran.

HIST 323 Gulf-South Asia Rela Mode&Cont
Credit Hours: 3
This course is designed to help the students understand the dynamics of the relationship between the Gulf and South Asia, particularly India, and the economic and social dimensions of this relationship. The students will explore the Gulf’s role in the global economy, its business relations with South Asia, and the impact of Gulf-South Asia economic and political developments on the region.

HIST 324 Gulf-South Asia Rela Mode&Cont
Credit Hours: 3
This course is designed to provide the students with the necessary information that will help them understand the historical developments in Gulf countries during the past five centuries, as well as acquaint them with main sources of Gulf history. The course will focus on the political history of the Gulf and the conditions that led to the emergence of Gulf countries.

HIST 344 Advanced Hist Research
Credit Hours: 3
This course is designed to provide the students with the necessary background to conduct advanced research in history, including the use of primary and secondary sources, their critique, and the application of analytical and qualitative research methods. The course will also cover various aspects of historical writing, including the drafting of research papers, the preparation of oral presentations, and the development of research proposals.
European colonialism on the relationship between the two regions.

**HIST 324**
**Modern & Contemp Africa**
Credit Hours: 3
This course will investigate the history of gender roles, images, and experiences in the social, political, economic and legal context of ancient societies such as Mesopotamia, Ancient Egypt, Persia, Levant, India, China, Rome, Africa, Africa, Latin America and Arabia. Through a topical approach, the emphasis is placed on the variety of ancient women’s experience. Reading material will be from primary sources; pictorial and archaeological evidence will likewise be at the center of class discussions.

**HIST 325**
**Women & Genocide in the Anci Near East**
Credit Hours: 3
This course will explore the role played by Arabian Gulf in the Arabian Gulf from Prehistory to the Islamic period. This course includes a brief examination of the decline and collapse of the western half of the Roman Empire.

**HIST 331**
**Anci Gree&Rome 1200BCE to500CE**
Credit Hours: 3
This course covers the origins and developments of early Greek society, from the 8th century BCE to the 3rd century BCE, with an emphasis on the political, economic, cultural and social interactions between Greece and the Near East. The course also examines the role of Greek colonies and trading settlements in the Mediterranean and the Black Sea. The course concludes with a brief overview of the history of the ancient Greek world, from the rise of the Greek city-states to the fall of the Persian Empire.

**HIST 332**
**Medieval Europe,500 to 1400 CE**
Credit Hours: 3
This course covers the period from the fall of the Roman Empire to the rise of the Renaissance. The course examines the political, economic, and social developments in Europe during this time, including the rise and fall of empires, the rise of feudalism, and the development of the Renaissance. The course also covers the role of the church and the monastery in shaping the development of the medieval period.

**HIST 333**
**The Rona & Revo 1400-1648**
Credit Hours: 3
This course examines the intellectual and cultural developments that took place in Italy and Northern Europe during the age of the Renaissance and the Reformation. The course looks at the political, economic, and social changes that took place during this period, including the rise of the nation state, the development of capitalism, and the spread of religious ideas.

**HIST 334**
**Arabian Gulf in Antiquity**
Credit Hours: 3
This course presents an overview of western European history, from the fall of the Roman Empire through to the Hundred Years' War. Emphasis is placed on the decline of the Roman Empire; the rise of feudalism and manorialism; the rise of the Papacy; the Commercial Revolution; and the origins of nation states. Course assignments include essay exams, reaction papers, as well as class presentations that emphasize critical thinking, writing and communication skills.

**HIST 335**
**Fatimids, Ayubides & Memlukes**
Credit Hours: 3
This course will investigate the history of gender roles, images, and experiences in the social, political, economic and legal context of ancient societies such as Mesopotamia, Ancient Egypt, Persia, Levant, India, China, Rome, Africa, Africa, Latin America and Arabia. Through a topical approach, the emphasis is placed on the variety of ancient women’s experience. Reading material will be from primary sources; pictorial and archaeological evidence will likewise be at the center of class discussions.

**HIST 336**
**Wom & Gen in the Anci Near Eas**
Credit Hours: 3
This course will explore the role played by Arabian Gulf in the Arabian Gulf from Prehistory to the Islamic period. This course includes a brief examination of the decline and collapse of the western half of the Roman Empire.

**HIST 337**
**The Age of Abs&Revo1648to1815**
Credit Hours: 3
This course covers the period from the fall of the Roman Empire to the rise of the Renaissance. The course examines the political, economic, and social developments in Europe during this time, including the rise and fall of empires, the rise of feudalism, and the development of the Renaissance. The course also covers the role of the church and the monastery in shaping the development of the medieval period.

**HIST 338**
**The Rena & Refo 1400- 1648**
Credit Hours: 3
This course covers the period from the fall of the Roman Empire to the rise of the Renaissance. The course examines the political, economic, and social developments in Europe during this time, including the rise and fall of empires, the rise of feudalism, and the development of the Renaissance. The course also covers the role of the church and the monastery in shaping the development of the medieval period.

**HIST 339**
**Modern & Contemp Africa**
Credit Hours: 3
This course will explore the role played by Arabian Gulf in the Arabian Gulf from Prehistory to the Islamic period. This course includes a brief examination of the decline and collapse of the western half of the Roman Empire.

**HIST 340**
**Modern & Contemp Africa**
Credit Hours: 3
This course will explore the role played by Arabian Gulf in the Arabian Gulf from Prehistory to the Islamic period. This course includes a brief examination of the decline and collapse of the western half of the Roman Empire.

**HIST 341**
**Modern & Contemp Africa**
Credit Hours: 3
This course will explore the role played by Arabian Gulf in the Arabian Gulf from Prehistory to the Islamic period. This course includes a brief examination of the decline and collapse of the western half of the Roman Empire.

**HIST 342**
**Modern & Contemp Africa**
Credit Hours: 3
This course will explore the role played by Arabian Gulf in the Arabian Gulf from Prehistory to the Islamic period. This course includes a brief examination of the decline and collapse of the western half of the Roman Empire.

**HIST 343**
**Modern & Contemp Africa**
Credit Hours: 3
This course will explore the role played by Arabian Gulf in the Arabian Gulf from Prehistory to the Islamic period. This course includes a brief examination of the decline and collapse of the western half of the Roman Empire.

**HIST 344**
**Modern & Contemp Africa**
Credit Hours: 3
This course will explore the role played by Arabian Gulf in the Arabian Gulf from Prehistory to the Islamic period. This course includes a brief examination of the decline and collapse of the western half of the Roman Empire.

**HIST 345**
**Modern & Contemp Africa**
Credit Hours: 3
This course will explore the role played by Arabian Gulf in the Arabian Gulf from Prehistory to the Islamic period. This course includes a brief examination of the decline and collapse of the western half of the Roman Empire.

**HIST 346**
**Modern & Contemp Africa**
Credit Hours: 3
This course will explore the role played by Arabian Gulf in the Arabian Gulf from Prehistory to the Islamic period. This course includes a brief examination of the decline and collapse of the western half of the Roman Empire.

**HIST 347**
**Modern & Contemp Africa**
Credit Hours: 3
This course will explore the role played by Arabian Gulf in the Arabian Gulf from Prehistory to the Islamic period. This course includes a brief examination of the decline and collapse of the western half of the Roman Empire.

**HIST 348**
**Modern & Contemp Africa**
Credit Hours: 3
This course will explore the role played by Arabian Gulf in the Arabian Gulf from Prehistory to the Islamic period. This course includes a brief examination of the decline and collapse of the western half of the Roman Empire.

**HIST 349**
**Modern & Contemp Africa**
Credit Hours: 3
This course will explore the role played by Arabian Gulf in the Arabian Gulf from Prehistory to the Islamic period. This course includes a brief examination of the decline and collapse of the western half of the Roman Empire.

**HIST 350**
**Modern & Contemp Africa**
Credit Hours: 3
This course will explore the role played by Arabian Gulf in the Arabian Gulf from Prehistory to the Islamic period. This course includes a brief examination of the decline and collapse of the western half of the Roman Empire.

**HIST 351**
**Modern & Contemp Africa**
Credit Hours: 3
This course will explore the role played by Arabian Gulf in the Arabian Gulf from Prehistory to the Islamic period. This course includes a brief examination of the decline and collapse of the western half of the Roman Empire.

**HIST 352**
**Modern & Contemp Africa**
Credit Hours: 3
This course will explore the role played by Arabian Gulf in the Arabian Gulf from Prehistory to the Islamic period. This course includes a brief examination of the decline and collapse of the western half of the Roman Empire.

**HIST 353**
**Modern & Contemp Africa**
Credit Hours: 3
This course will explore the role played by Arabian Gulf in the Arabian Gulf from Prehistory to the Islamic period. This course includes a brief examination of the decline and collapse of the western half of the Roman Empire.

**HIST 354**
**Modern & Contemp Africa**
Credit Hours: 3
This course will explore the role played by Arabian Gulf in the Arabian Gulf from Prehistory to the Islamic period. This course includes a brief examination of the decline and collapse of the western half of the Roman Empire.

**HIST 355**
**Modern & Contemp Africa**
Credit Hours: 3
This course will explore the role played by Arabian Gulf in the Arabian Gulf from Prehistory to the Islamic period. This course includes a brief examination of the decline and collapse of the western half of the Roman Empire.

**HIST 356**
**Modern & Contemp Africa**
Credit Hours: 3
This course will explore the role played by Arabian Gulf in the Arabian Gulf from Prehistory to the Islamic period. This course includes a brief examination of the decline and collapse of the western half of the Roman Empire.

**HIST 357**
**Modern & Contemp Africa**
Credit Hours: 3
This course will explore the role played by Arabian Gulf in the Arabian Gulf from Prehistory to the Islamic period. This course includes a brief examination of the decline and collapse of the western half of the Roman Empire.

**HIST 358**
**Modern & Contemp Africa**
Credit Hours: 3
This course will explore the role played by Arabian Gulf in the Arabian Gulf from Prehistory to the Islamic period. This course includes a brief examination of the decline and collapse of the western half of the Roman Empire.

**HIST 359**
**Modern & Contemp Africa**
Credit Hours: 3
This course will explore the role played by Arabian Gulf in the Arabian Gulf from Prehistory to the Islamic period. This course includes a brief examination of the decline and collapse of the western half of the Roman Empire.

**HIST 360**
**Modern & Contemp Africa**
Credit Hours: 3
This course will explore the role played by Arabian Gulf in the Arabian Gulf from Prehistory to the Islamic period. This course includes a brief examination of the decline and collapse of the western half of the Roman Empire.

**HIST 361**
**Modern & Contemp Africa**
Credit Hours: 3
This course will explore the role played by Arabian Gulf in the Arabian Gulf from Prehistory to the Islamic period. This course includes a brief examination of the decline and collapse of the western half of the Roman Empire.
HIST 390 The Hist of Mode China & Japan Credit Hours: 3
The social, political and cultural history of twentieth-century China and Japan with a focus on issues of nationalism, revolution, modernity and gender. Using a combination of primary and secondary materials relating to various walks of life, and a range of experiences from shopping to constitutional debates, students will be expected to craft their own interpretations of this fundamental period in Japan and China’s histories. Lectures will introduce important developments and provide a framework for developing strong analytical skills.

HIST 407 Capstone Credit Hours: 3
In this course, students embark on a research project under the supervision of their instructors. To enhance their collaboration skills, more than one student may embark on one project. Although students are given the liberty to select their individual/collective project, the approval and guidance of instructors is requested. Specifically, the Capstone project is supposed to reflect the skills and training undertaken throughout the history program.

HIST 416 Hist of Islam Arts & Archi Credit Hours: 3
This course deals with all Islamic forms, styles and designs of art and architecture from the rise of Islam in the seventh to the thirteenth century. It begins with the impact of the ancient and medieval cultures on the Islamic culture. Numismatics, pottery, ceramic, metallic crafts, glass and crystals, carpet and textiles will be studied. Additionally, urban planning and design of mosques, castles, walls and public buildings in main Muslim cities of Damascus, Baghdad, Jerusalem will be also studied.

HIST 421 The Gulf and the Arab World Credit Hours: 3
This course is designed to acquaint the students with the relationship between the Gulf countries and the Arab World during the modern period, the evolution of this relationship, and its social, political, and economic dimensions. The course will examine Gulf-Arab relations since the nineteenth century, cultural and educational exchange, Arab migrant labor in the Gulf, the policies Gulf countries towards national movements in the Gulf world, and their position regarding the Arab-Israeli conflict.

HIST 425 Topics in Gulf History Credit Hours: 3
The course may count twice with different topics. The following are examples of topics and are not meant to be exclusive: History of Women in Islam; Islamic Political Thought; Military History in Islam; and Travels in the Medieval World: Historical & Socioeconomic Lessons. Students’ broad comprehension of the material will be examined through highly critical and analytical research projects.

HIST 427 Muslim Minorities in the World Credit Hours: 3
This course explores the developments and debates related to Muslim communities issue in different parts of the world. The great focus of this course will be mapping these communities. The course will explore the history of these minorities in the west, eastern Europe, Latin America, and south Asian countries. The course will also study the challenges that are facing these minorities, and the contributions they may have made to those societies.

HIST 431 Nati & its Cons 1815 to 1914 Credit Hours: 3
This course examines nationalism in three interrelated domains: the way it informed the emergence of modern nation-states in Europe; the major theoretical debates this historical experience generated and the ways in which nationalism was disseminated through public performance. The course focuses on nationalism in France, Germany, and Italy. Students will improve their sense of inquiry, developing sharper communication and writing skills through composition of research papers, class and group discussions, and presentations.

HIST 432 Eurp.Bet. the Two World Wars Credit Hours: 3
This course examines the social, economic, and political causes of both wars; the politics and society of the inter-war period, and the rise of totalitarianism; the impact the wars left on the European continent and their repercussions on the rest of the world.

HIST 434 Topics in European History Credit Hours: 3
The course may count twice with different topics. The following are examples and are not meant to be exclusive: Napoleon Bonaparte: Nazi Germany; The Russian Empire and the Middle East; Women in European History; The Rise of European Fascism in the 20th Century; European-Ottoman Encounters.

HIST 436 Int.Hist of Eurp the 20 Cent. Credit Hours: 3
This course explores the intellectual and cultural history of Europe in the 20th century. It examines how European intellectuals, artists, writers, and other cultural figures were studied and responded to key developments in the 20th century. Among the historical themes for consideration are psychology and the self, feminism, gender, the mass politics of socialism, fascism and totalitarianism, race, empire and decolonization.

HIST 442 Mod Arabian Gulf Credit Hours: 3
The Arabian Gulf at the Outset of the Modern Age, Portuguese Presence and Its Resistance, International Rivalry in the Gulf Region (The Dutch, French and British), Regional Forces in the Gulf Region, the Ottoman State and Its Relations with the Gulf Region, Advent and Growth of Arab Political Organizations, British Policies in the Gulf Region in the 19th Century, Political Conditions in the Gulf Region at the Outset of the 20th Century, Evolution of Arab Emirats, Oil Discoveries and their Political Effects on Gulf Conditions, the USA and Its Oil Interests, Economic and Social Effects of Oil in the Gulf Region, Building Modern Arab States.

HIST 444 Morocco & Andalusia Credit Hours: 3
This course explores the developments and debates related to Muslim communities issue in different parts of the world. The great focus of this course will be mapping these communities. The course will explore the history of these minorities in the west, eastern Europe, Latin America, and south Asian countries. The course will also study the challenges that are facing these minorities, and the contributions they may have made to those societies.

HIST 447 History of Modern Europe Credit Hours: 3
European Renaissance, Geographical Discoveries and Their Effects, Religious Reform Movement in Europe and Its Effects, International Relations in the 16th Century, Evolution of Europe in the 17th Century, International Relations in the 17th and 18th Centuries, the French
Revolution, the Industrial Revolution and its Results, Era of Conferences and Reformation of Europe, Italian Unification, German Union, Alliances and Blocks from the Late 19th Century to Early 20th Century, First World War: causes, battles and results, peace treaties, Inter-war Period, Communist, Fascist, Nazi Regimes, Democracies, World War Two and Its Results, Post-war World and Emergence of the Two Superpowers, Alliances and Blocks, Trends towards European Unity.

HIST 449 Mod & Contemp America
Credit Hours: 2
Discovery and colonization of America, the American Revolution and Rise of the USA, US Constitution, Evolution of the USA Civil War, Monroe Doctrine and US Foreign policy, Rise of the USA as Great Power, Independence movements in Latin America.

HIST 450 Inst Political & Social Theo
Credit Hours: 3

HIST 453 Islamic Art & Archaeology
Credit Hours: 3
Influence of Islam on Artists, Islamic Architecture (urban architecture, military architecture), Money and Al Numayat (Study of Coins), Islamic Arts (pottery, metals, carpets, other arts), Inscriptions (Kufic writing, Naskh writing).

HIST 456 Comprehensive Experiences
Credit Hours: 3
This course is designed to provide students with the ability to link the knowledge, skills and trends they have acquired and employ them all in field of study, as well as overcome educational, obstacles. Furthermore, it leads the educational advancement from a comprehensive perspective, taking into consideration the practical experience the students have acquired from their training as student teachers in school. This course also focuses on providing students with the skills of adopting complementary methods for studying and solving social field and educational problems, such as alternative strategies and comprehensive quality administration methods. This course can be considered as the umbrella under which all the educational experience, that the student teachers have acquired during their preparation.

HIST 459 Indian Sub-Cont, China & Jap
Credit Hours: 3
Study of Topics in the History of the Indian Peninsula and its European Colonization, 1857 Indian Revolt, Evolution of the National Movement to Independence and the Rise of the State of Pakistan, Modern History of China, South-East Asia and Japan to World War Two.

HIST 460 Mod & Contemp Middle East
Credit Hours: 3
Concept and Importance of the Middle East, the Middle-East Before the First World War, The First World War and its Effects on the Middle East, the Middle East in the Inter-War Period, World War Two and the Middle East, Oil Discoveries and Their Social and Economic Effects on the Region, the Arab - Israel Conflict, the Cold War and its Effects on the Middle East, the Middle East at the End of the 20th Century.

HIST 461 Independent Study
Credit Hours: 1 OR 3
The Course Professor selects a an important contemporary topic and gives a general idea in an initial lecture. Students are then divided into teams to cover the various aspects of the topic. The teams present the research activities in lectures. Assessment: Students’ research activities on the topic are assessed and no tests are given. Examples of topics: the Iraq Issue, Reform in the Arab World, Women in the Arab World, etc.

HIST 470 Modern Latin American History
Credit Hours: 3
This course explores the emergence of independent Latin American nations from the 19th century. It examines how states are formed from colonial territories and how nations, national identities, and national communities are constructed. It also focuses on questions of democracy, and the struggle for political, social, and economic representation. Course assignments emphasize reading and interpreting primary source materials, and both oral and written work, including research and reaction papers that will improve critical thinking abilities.

HONS 100 Freshman Seminar Credit Hours: 3
This Honors Seminar will introduce students to the University and its Honors program. It will enable students to learn how to think and express their thoughts critically and effectively. Students will also learn the necessary skills for writing an effective research paper. The course is interdisciplinary with emphasis on topics proposed by different Honors faculty members.

HONS 101 Honors Freshman Seminar for Humanities
Credit Hours: 3
This Honors Seminar course for Humanities trains students in how to analyze and interpret texts, including primary and secondary sources. Students gain familiarity with at least one specific humanities discipline, and apply its methods or approaches to examine a given theme, problem, or geographic region. They also learn the benefits of interdisciplinary approaches in scholarship. The development of critical, analytical and interpretative reading, writing and rhetorical skills as well as research skills are stressed.

HONS 102 Honors Freshman Seminar for Social Sciences
Credit Hours: 3
The Honors Freshman Seminar course for Social Sciences introduces students to research and academic writing skills. These include proper use of resources, research design, critical reading and analysis, and academic writing. This seminar course involves group-work, poster presentations, and writing a research paper. Students are also introduced to various research methodologies in social sciences, and are encouraged to rely on these methodologies in conducting and writing their research papers. The thematic focus of the seminar course differs each semester.

IENG 200 Work Methods & Measurments
Credit Hours: 3
Introduction to concepts of work & machine interface, analysis, design and measurement of work, method study, recording at different levels, process analysis and improvement, applications in design/modification. Work measurement, Time study, work sampling, PMTS, fundamentals of incentive schemes & performance measurement.

IENG 210 Thermodynamics
Credit Hours: 3

IENG 210 Prerequisite MATH 101

IENG 320 Statistical Quality Ctrl
Credit Hours: 3
Introduction to statistical methods for controlling the quality of products and services. Process control techniques, acceptance sampling methods, statistical analysis using OC tools and basics of other methods such as DOE, capability analysis used by management to control processes, costs and to improve quality.

IENG 210 Prerequisite GENG 200

IENG 330 Operations Research
Credit Hours: 3
Methods of operations research including formulation of models and derivation of solutions linear programming. Simplex algorithm, Transportation and assignment problems. Network models.

IENG 330 Prerequisite MATH 102
Prerequisite IENG 330

IENG 410
Ergonomics & Safety Engin
Credit Hours: 3
Introduction to Ergonomics & terms associated, Credit Hours: 3

IENG 411
Maintenance Plan & Ctrl
Credit Hours: 3
Management of maintenance planning, execution, control, and its relationship to other functions, preventive and predictive maintenance using condition based monitoring, spare parts planning, replacement analysis, reliability engineering, maintenance procedure and costs involved, fundamentals of TPM and OEE, role of computers. Case studies and applications

Prerequisite IENG 330

IENG 420
Quality Management
Credit Hours: 3
An introductory course on the theory and applications of Total Quality Management in the context of organizational and cultural change dedicated to the continuous improvement of products and services. Some of the ideas and topics covered are: international quality awards quality management systems (ISO 9000), benchmarking reengineering; teaching of Deming, Juran, and Crosby; management of change and implementation of TQM.

Prerequisite IENG 320

IENG 421
Decision Analysis
Credit Hours: 3
This is an introductory course on the theory and applications of decision analysis. Approaches of decision-making problems under certainty and uncertainty. Emphasis on the formulation, analysis and use of decision-making techniques in engineering and systems analysis. Formulation of risk problems and probabilistic risk assessments.

Prerequisite IENG 300

IENG 423
Design of Experiments
Credit Hours: 3

Prerequisite IENG 200

IENG 425
Reliability Engineering
Credit Hours: 3

Prerequisite GENG 200 AND IENG 330

IENG 441
Process Management
Credit Hours: 3
Principles of manufacturing automation and control strategies and techniques for modern industrial processes. Fundamentals of numerical control (NC) and applications of modern computer numerical control (CNC), Programmable Logic Controllers (PLC), Robotics and automated materials handling systems. Analysis of automated production systems/lines including; automated flow lines, transfer lines, and automated assembly lines.

Prerequisite GENG 106 AND MECH 230

IENG 451
Expert Systems
Credit Hours: 3
Fundamentals of artificial intelligence (AI), Basic concepts and principles of expert systems. Building expert systems, central ideas of expert system development; including knowledge representation, control structures, knowledge acquisition, and knowledge engineering. Emphasis on the use of domain specific knowledge to obtain expert performance in programs. Modern expert system programming techniques and tools.

Prerequisite GENG 106

IENG 452
Information Systems Engin
Credit Hours: 3
Fundamentals of information systems, key application areas of an industrial information system - the relational database model, introduction to SQL. Query by Example. Informational architecture and logical database design - data modeling, entity-relationship model - normalization - information system analysis and design, understanding the information requirements of an enterprise - implementation (design of a user interface, design and implementation of forms and reports based on user requirements) - Web-enabled databases, basics of ERP concepts and information requirements inclusive of e-business - Introducing object-oriented design, UML diagrams, modeling using UML, A Design Project: Execution of information system design project using standard design tools.

Prerequisite GENG 106

IENG 460
Manufacturing Systems Des
Credit Hours: 3

Prerequisite GENG 106 AND MECH 230

IENG 478
Innovation & Entrepreneurship
Credit Hours: 3
This course combines class room lectures with field study and exercises supplemented with guest lectures and case studies on small and medium scale industries. The course offers the basic framework for understanding the process of entrepreneurship, principles of management and related techniques in decision making, planning, marketing, and financial control. Exercises in product design and prototype development, preparation of workable project feasibility reports, practical ideas about launching their own
enterprises are also covered.

Prerequisite GENG 360

IENG 479 Special Topics
Credit Hours: 3
Selected topics that meet student interests and reflect trends in the field of industrial and systems engineering.

IENG 481 Project Engineering
Credit Hours: 3
Introduction to project engineering, project lifecycle and feasibility studies. System approach covering requirements such as scope, time, cost, quality, resources and communication. Project planning & control, work breakdown and network scheduling techniques such as CPM & PERT. Cost and resources considerations and organization structures. Applications of project management software. Case studies.

Prerequisite GENG 360

IENG 484 Supply Chain Management
Credit Hours: 3
Introduction to subject its importance and evolution, terms associated, Inbound side of chain, procurement/re- source management, Vendor management, operational aspects in supply chain, Make or buy decisions, and resource planning, distributional aspects of supply chains, Integration aspects such as Linkage with other software solutions like ERP, strategic chain decisions with manufacturing environments, optimization, and sourcing decisions affecting overall performance. Newer practices in supply chain management.

Prerequisite IENG 310

IENG 485 Financial Eng & Risk Mngmt
Credit Hours: 3
Introduction to financial engineering with an emphasis on financial derivatives including; the future markets, the pricing of forwards and futures, forward rate agreements, interest and exchange rate futures, swaps, the options markets and option strategies. Techniques and methods for managing risks and returns. Portfolio management, the Capital Asset Pricing Model (CAPM), Monte Carlo methods, Value-at-Risk, Stress testing, extreme value theory, decision trees and utility theory.

Prerequisite GENG 200 AND GENG 360

IENG 486 Service Operation Management
Credit Hours: 3
Understanding Services, how the operations and management of services is different than manufacturing, role of services in economy and value chains, strategies and competitiveness of value chain, design of services, service systems and the various considerations, managing operating services, service considerations for select sectors such as health care, public and private non-profit organizations, global performance aspects of services.

Prerequisite GENG 360

IENG 498 Indust Systems Des
Credit Hours: 3
A team-based capstone design work involving analysis and design of a system in the area of Industrial and Systems Engineering. Students follow systematic design approach; apply project planning and scheduling techniques and computational and/or experimental solutions. Emphasis on synthesis of knowledge and skills to assimilate and comprehend professional attitude and ethics in problem solving with assessment of environmental, cultural and social impacts; Students are required to present their findings at the end of the project in the form of a written formal report based on specific standard format, followed by a multimedia presentation of the work undertaken in the project.

IENG 499 Independent Study
Credit Hours: 1 OR 3
Independent research of a topic not previously studied in other industrial systems engineering courses. Offered under the supervision of a faculty member. A formal report is required.

INST 225 Educational Technology
Credit Hours: 1 OR 3
This course was designed to help student teachers in acquiring information skills, and renewable attitudes related to the employment of the Educational Technology in all aspects of the educational process. The course addresses many topics concerning the nature of the field of educational technology and related areas, such as information technology (IT), which implies digital information, computer educational applications, and the other kind of advancements technology such as multimedia, computers, internet, and so on, in a theoretical & practical ways.

INTA 100 First Year Seminar
Credit Hours: 3
The First Year Seminar is a small interdisciplinary courses designed to improve critical thinking, reading and writing skills necessary for the rigor of the International Affairs curriculum. The format of the course is designed to maximize interaction between students, encouraging them to explore new ideas and concepts related to global issues. Students are expected to become involved in recognizing, evaluating and deconstructing arguments and learn essential methods of research, writing and analyzing.

INTA 101 Political & Social Thought
Credit Hours: 3
In the last half a millennium Western Europe transformed in radical ways from individual self-perception to the way the state legitimizes its authority. Most of the changes were unprecedented in human history, and along the way, brought about new philosophical problems that since then have occupied the western world. This course introduces some of the central philosophical problems as well as responds to the course of European transformation and some solutions offered by European philosophers.

INTA 102 Intro to Political Science
Credit Hours: 3
This course aims to provide an overview of political science by examining its major approaches, concepts, theories and subject matter in practice. The course intends to allow students to understand political analysis. The ultimate goal of the course is to offer students a firm conceptual foundation in the discipline so that these questions can be studied in more detail throughout the rest of their academic career.

INTA 103 Intro to Inter Relations
Credit Hours: 3
This is an introductory course to topics in international relations. It provides students with: (1) the analytical and theoretical frameworks and vocabularies needed to explore and understand the subject matter of international relations, and (2) case-oriented accounts relating to local, regional and global issues, including, but not limited to, ethnic and religious conflicts, wars, foreign policy-making, diplomacy, democratization and global terrorism.

INTA 200 Study & Practice of Diplomacy
Credit Hours: 3
This course introduces a key element of International relations: the art of diplomacy. We analyze diplomacy’s important role in the international system through the major theoretical lenses of International Relations and then explore empirical cases of diplomacy in the face of international crises. By the end of the course, students will be asked to create an exercise in international diplomacy of their own.

INTA 201 Comparative Political Systems
Credit Hours: 3
This course studies the concepts, methods and substance of comparative politics. It focuses on the politics of particular foreign countries and regions and the comparative study of political phenomena such as leadership or state formation on a regional level. It explores themes such as the relationship between ideology and political behavior, political interests and how they are represented, group-decision-making in democracies, as well as the different types of governments and regimes and the political hierarchy supporting them. The course also shows how different political systems interact, and students will be expected to anticipate how these political systems will act in the future.

Prerequisite INTA 102

INTA 202 European Civilization
Credit Hours: 3
This is an introduction to the history of European Civilization from the pre-industrial era. Its goal is to present the comparative study of political phenomena such as leadership or state formation on a regional level. It explores themes such as the relationship between ideology and political behavior, political interests and how they are represented, group-decision-making in democracies, as well as the different types of governments and regimes and the political hierarchy supporting them. The course also shows how different political systems interact, and students will be expected to anticipate how these political systems will act in the future.

Prerequisite INTA 102

INTA 203 Women in Islam
INTA 204 Middle East History I
Credit Hours: 3
This course is a survey of the history of the Middle East from the rise of Islam until the Ottoman Period, roughly the sixth to sixteenth century. It examines the principal political, economic, intellectual, social, and cultural features of the Muslim world and discusses the geo-strategic and cultural conditions that attended the rise and spread of Islam. The formats used will include lecture, group discussion, and student presentations, and will be designed to encourage active engagement with the material. Grading will include participation, writing assignments, a midterm exam, and a final exam.

INTA 205 Middle East History II
Credit Hours: 3
This course is designed to cover the history of the Middle East from 1500 to the present with the purpose of understanding political, cultural, and economic developments, both within the region and in its relations with the broader international system. This course will explore the political, social, cultural, and religious changes experienced by the people of the various countries that constitute the Middle East. Important themes to be covered include: Ottoman society and politics, western imperialism and the several forms it took, class and gender struggle, the rise of nationalism in its various forms, including Pan-Arabism and Pan-Islam, the fight for independence, revolutions and the establishment of new republics, as well as the formation of the foundation of Israel and its impact on Palestinians and the Arab world. These themes will be developed with an underlying interest in the changes experienced by the people of the area in their daily life, social structures, institutions, and state-society relations.

Prerequisite
INTA 204

INTA 206 Globalization
Credit Hours: 3
Globalization is a popular term that remains poorly understood. For some, it is associated with progress and development, while others see it representing rampant capitalism and Westernization. The purpose of this course is to introduce students to key issues in globalization. Through drawing on a variety of key themes, the course will cover globalization’s most important political, economic, social and cultural phenomena, such as transnational social movements, international organizations, political economy and security. This seminar will attempt to answer fundamental questions such as: What is globalization? Is it truly a new phenomenon or a continuation of what has been happening before? What are its implications for domestic policy making?

INTA 209 Islam and the West
Credit Hours: 3
The course will cover the historical development of Islam and the West from the rise of Islam until the Ottoman Period, roughly the sixth to sixteenth century. It examines the principal political, economic, intellectual, social, and cultural features of the Muslim world and discusses the geo-strategic and cultural conditions that attended the rise and spread of Islam. The formats used will include lecture, group discussion, and student presentations, and will be designed to encourage active engagement with the material. Grading will include participation, writing assignments, a midterm exam, and a final exam.

INTA 296 International Organizations
Credit Hours: 3
This course deals with the historical evolution of political and international systems, and the roles that international organizations have taken over the past century. It raises conceptual questions about international organization and goes into details in regards to the structural characteristics and operations of the United Nations and other key international and regional organizations. Of particular interest will be the major international issues of concern to these organizations, such as a peace and security, the environment and global warming, economic development and poverty, and human rights.

INTA 300 Chin.Soc&Poli.in the21st cent
Credit Hours: 3
Over the past decade, China has rapidly emerged as a major force in the world economy, and an increasingly important player in international politics. In order to better understand how China came to be in this position and its growing impact on the rest of the world, this course will provide an in-depth understanding of China’s recent history, domestic politics, society, and economy. The course will then focus on China’s foreign relations and its growing role in the Middle East and the Gulf in particular.

INTA 301 Islamic Political Thought
Credit Hours: 3
This course investigates how Muslims – both religious and secular – have thought about Islam and its role in politics in various parts of the world during the nineteenth and twentieth century. By examining the writings of important Muslim scholars and Arab secular intellectuals, and their historical contexts, this course will try to understand the diverse ways that Islam as a religious ideology has been historically implicated, or, as some have termed it, Westernized. Taking an analytical approach, this class is based heavily on discourse analysis – analyzing primary sources – in order to discover how religious and secular ideas about Islam have evolved in the Muslim world’s search for modern political legitimacy and an authentic Islamic identity in the modern period.

INTA 302 Politics of Oil
Credit Hours: 3
This course examines the impact of oil politics on society and social development. The main focus will be on the modern history of major oil producers in the Gulf region and around the world, from the Russian revolution to the recent conflict in Iraq. In particular, this course will analyze the relationship between oil, foreign investment, nationalism, securitization, religion and social change. To end this course, this class will provide a comprehensive introduction to the contemporary politics of oil by discussing its dynamics, implications, and impact on the formation, transformations and political economy of society and society’s role in global politics.

INTA 303 Internship
Credit Hours: 6
This is an innovative cross-cultural course that allows students to explore the relationship between the Muslim/ Arab world and the West. Through the Solyia program, students will be grouped together with other students from the United States, Europe, the Middle East, and North Africa. Students will have the opportunity to explore the relationship between the Arab/ Muslim world and the West via online dialogue sessions. The goal of the course is to improve students’ awareness of other cultures and societies. Students will examine their perception of ‘other,’ through this intercultural dialogue. The course is taught in conjunction with Solyia (www.solyia.net).

INTA 304 Gulf Studies
Credit Hours: 3
This course explores the eight political systems located in the oil-rich Arabian Gulf. The course will focus on the clash between tradition and modernity, resurgent Islam and securitism in this particular part of the world.

INTA 305 Inte. Political Economy
Credit Hours: 3
This course looks at energy and environmental issues from an economic perspective. Emphasis of this course will be on the relationship between the environment, natural resources, and economic growth. Other topics will include energy efficiency and control of pollution across countries, global warming and the role of energy in the international economy.

INTA 313 Culture and Politics
Credit Hours: 3
The purpose of this class is to introduce students to the theoretical debates, critical methodologies and theorists of culture and politics, with particular attention being given to the Middle East. The course will draw on a number of key cultural and political critiques that address
the way we read, interpret and construct meaning, identity, knowledge and values in our societies, politics and culture. The course is particularly interested in examining the political meanings of culture as they relate to issues such as representation, power, class, gender, media and nationalism in terms of their social and historical contexts.

Prerequisite
INTA 100

INTA 315 Dialogue Across Soc. & Civi.
Credit Hours: 3
This is an innovative cross-cultural course that allows students to explore the relationship between the Muslim/Arab world and the West. Through the Soliya program, students will be grouped together with other students from the United States, Europe, the Middle East, and North Africa. Students will have the opportunity to explore the relationship between the Arab Muslim world and the West via online dialogue sessions. The goal of the course is to improve awareness and understanding of other societies, and to examine their perception of ‘other’, through this intercultural dialogue. The course is taught in conjunction with Soliya (www.soliya.net).

INTA 345 The Arab-Israeli Conflict
Credit Hours: 3
This course will survey the social, political, and ideological origins of the Arab-Israeli conflict. Looking specifically at the role of Zionism, imperialism, Arab nationalism and Zionism, and how these forces shaped the region and the conflict. Moving beyond the causes of the conflict, this course will also look at the different attempts at peacefully resolving the conflict. This course will also explore the role of major players, such as the US, France, UK, Russia, and Iran in the conflict.

INTA 350 Fore. Policy of the Unit. Stat
Credit Hours: 3
This course offers a survey of the foreign policy of the United States since the American Revolution. It aims to show the themes that underpin its foreign policy through adopting a case study approach on the role of the United States in its foreign affairs and includes both World Wars, the Cold War era, in addition to the role it has in its foreign affairs and includes both World Wars, the Cold War era, in addition to the role it has in

INTA 401 International Relations Theory
Credit Hours: 3
This course explores the prominent theories of International Relations. Major themes include morality and politics; debates about policy and conflict; and the search for peace. Classes will be both lecture and discussion based. At the conclusion of the course students will demonstrate their understanding of various theories of international relations in analyzing a current problem of their choosing through the lenses of two of the theoretical perspectives discussed in class.

INTA 402 Security Studies
Credit Hours: 3
Aims to develop a working knowledge of the theories and conceptual frameworks that form the intellectual basis of security studies as an academic discipline. Particular emphasis on balance of power theory, organization theory, and the relationship between war and politics. The reading list includes Jervis, Schelling, Waltz, Blaunde, von Clausewitz, and Huntington. Students will write a seminar paper in which theoretical insights are systematically applied to a current security issue.

Prerequisite
INTA 103

INTA 404 Gender & law
Credit Hours: 3
General survey of the law as it relates to women, including constitutional rights, inheritance laws, civil rights applications, domestic violence, intervention, law and women, and political implications of the legal process. This course will look focus both on the history of gender and women, as well as contemporary issues across the world.

INTA 405 Gender in Int'l Perspective
Credit Hours: 3
Explores gender construction and identity formation in international perspective. Case studies may be drawn from Africa, Asia, the Middle East, Latin America, and the Caribbean. Topics include theories and methodologies for examining gender relations in cross-cultural perspective, political and socio-economic status of women, gender ideologies and symbolic representations, women’s activism.

INTA 411 Capstone
Credit Hours: 3
This course represents a culmination of the material students covered across the required courses of the International Affairs program. The course focuses on bringing together and synthesizing methods, skills and acquired knowledge, and building upon them through exploration of a more focused and narrowly defined subject that provides students with the possibility of deepening their interest in a particular topic relevant to the study of International Affairs. Goals of the capstone will be to consolidate analytical skills, expand written and oral communication, and gain practice in undertaking more focused and sophisticated methods of research. Topics will vary from year to year depending on who is teaching the seminar and on international events. Subjects could include human rights, global warming, war against terrorism, world trade, world poverty and other issues.

INTA 415 History of the Middle East
Credit Hours: 3
History of the Middle East in the 20th Century. This course explores the 20th-century history of the Middle East, concentrating on the Fertile Crescent, Egypt, Turkey, the Arabian peninsula and Iran. We will begin by examining the decolonization of the British Empire and closer with the events of 9/11 and their aftermath. Readings will include historical surveys, novels, and primary source documents.

INTA 420 Conflict Reso., & Human Rights
Credit Hours: 3
This course provides a solid foundation in the theoretical basis of conflict studies and human rights. The course will adopt a thematic approach where both the dynamics of conflicts and the human rights issues from national and international perspectives will be examined. This course will also explore conflict styles, communication and mediation skills through relevant case studies.

Prerequisite
INTA 103

INTA 433 Conflict, the Cold War & World
Credit Hours: 3
This course covers the period between the end of the Second World War in 1945 and the events leading to the dismemberment of the Soviet Union in 1991. It examines the development of the Cold War between the United States and the Soviet Union; the history of the Soviet Union from Stalin to Gorbachev; the economic and political development of Western Europe, and the transformation of the role of Western European countries in the world through the process of decolonization. The course focuses on Nationalism in France, Germany, and Italy. Students will be introduced to the sense of inquiry and develop sharper communication and writing skills through the writing of research papers, class and group discussions and presentations.

INTA 440 Politics of Development
Credit Hours: 3
This course introduces students to the broad theories of development and their critiques. The focus is on the various perspectives, models and approaches to development in the Global South. The course will place a regional emphasis on Asia, Africa and Latin America. We will begin by examining the contested concept of development itself. We will look at the history and nature of colonialism and its legacy of poverty and inequality. In the second section we will examine mainstream approaches to development and alternative proposals. The final section of the course will explore key substantive topics and debates in the field.

INTA 450 Ethics of Int. Relations
Credit Hours: 3
Over the last years, ethics in international relations has witnessed increasing importance and significance within the discipline of international affairs during this. The course is designed to introduce students to the major ethical questions that arise in international relations, with a particular emphasis on the role of moral values in shaping foreign policy decisions. The course will cover a variety of topics, including the ethics of war and peace, the ethics of humanitarian intervention, and the ethics of international organizations.

INTA 440 Politics of Development
Credit Hours: 3
This course introduces students to the broad theories of development and their critiques. The focus is on the various perspectives, models and approaches to development in the Global South. The course will place a regional emphasis on Asia, Africa and Latin America. We will begin by examining the contested concept of development itself. We will look at the history and nature of colonialism and its legacy of poverty and inequality. In the second section we will examine mainstream approaches to development and alternative proposals. The final section of the course will explore key substantive topics and debates in the field.

INTA 460 Intl Politics & Epidemics
Credit Hours: 3
This course will explore the history and evolution of some of the greatest challenges to human health. We will consider the origins of epidemics, broadly defined, and the factors rooted in biology, social organization, culture and political economy that have shaped their course. We will examine the interactions between societies’ efforts to cope with disease and the implications of the latter for world history, ancient and contemporary. Texts include eyewitness accounts by participants such as scientists, healers and.
Acquaint the students to the terminologies of various disciplines of the Quranic Sciences and introduce them to the doubts and allegations hurled on the Quran and their rebuttals.

ISLA 103 Quranic Exegesis Credit Hours: 3
This course examines the definition of Islamic jurisprudence, its development, importance codification, and different methodologies used by scholars of Islamic Jurisprudence in authoring books, and deals with the original and secondary sources and rules of Islamic law and legal implications of the texts, derivation of the rules (Al-Ijtihad), following the opinion of the Islamic Law Schools (Taqreed) and issuing Fatwas.

ISLA 202 Logic and research methodology
Credit Hours: 3

ISLA 203 Fiqh of Transactions
Credit Hours: 3
This course clarifies the meaning of the jurisprudence of financial transactions, and talks about the sales contract in terms of its basis, conditions, types, effects and contemporary applications. It also elaborates the terms of al-salam (advanced payment sale) al-Ijara (leasing), al-wakala (Agency), al-Sharia (company), al-Musagat, al-Muzara (sharing), al-Ju’ala (Wages) and al-Daman (warranty).

ISLA 204 Sulfam and Ethics
Credit Hours: 3
The objective of this course is to acquaint the student with an understanding of tasawwuf with its theoretical and practical aspects both as an internal and external behavior and in accordance with the Islamic Shariah. The students would also be introduced to models of this mode of practical behavior and lastly the role of tasawwuf in traditional Islamic civilization.

ISLA 205 Intellectual Found of Islam Civ
Credit Hours: 3
This course introduces the student to the Islamic Civilization through its Intellectual foundations derived from the Quran and Sunnah. It also enables the student to analyze the forward march of Islamic Civilization and understand its leanings as well as the role of scholars in the dissemination of Islamic Thought.

ISLA 206 The objectives of the Sharia
Credit Hours: 3
This course deals with the emergence of the purposes of the Sharia theoretically and examines the definition of the Maqasid and its types, grades, and their importance, and elaborates its role in derivation of legal opinion through Tarjih (preference of one opinion over the other) and illustrates the most important ancient and contemporary studies on al-Maqasid.

ISLA 207 Thematic Hadith
Credit Hours: 3
Introduction to a number of comprehensive ahadith and the way to derive benefits related to the narration. Analysis of the hadith with respect to its narration and text.

ISLA 210 Islamic Penal Code
Credit Hours: 3
This course covers the study of different man-made laws and their characteristics, and religious laws and their characteristics and objectives and their obligations, and comparison between them and the man-made laws, in terms of source, characteristics, strengths, universality and binding force.

ISLA 212 Islamic Penal Code
Credit Hours: 3
This course deals with definition of crime and punishment and describes the general principles of Islamic criminal law; examines retribution in the murder or other crimes; and elaborates the punishment for adultery, slander,
drinking, theft, apostasy, banditry and punitive sanctions.

ISLA 301 Contemporary Methods in LS
Credit Hours: 3

Prerequisite
ISLA 102 AND ISLA 103 AND ISLA 104 AND ISLA 201

ISLA 302 Family law
Credit Hours: 3
This course describes the marriage contract, its conditions, effects, unmarried women, engagement, the elements of choice (of wife), and the rule of al-Zawaj al-Urfi (customary marriage). Misyar and the friend marriage. It further examines the types of separation between husband and wife, Idafa (period of waiting), and the consequences of separation such as its compensation, maintenance, accommodation, and descent.

ISLA 307 Islam Constitut & Administ Law
Credit Hours: 3
The course covers the importance of the State and its nature, the Imamate, sovereignty, governance, the source of sovereignty, authority, rules, and their legal aspects. It also studies rights and public freedom, the principle of consultation and obedience, legislation and codification in the Islamic state.

ISLA 308 Contemporary Intellecti Trends
Credit Hours: 3
This course will introduce basic Japanese speaking, listening, comprehension, reading, and writing grammar. It will cover the basic structures of Japanese language and focus will be placed on learning the alphabets and reading simple passages written in Hiragana, Katakana and Kanji. An additional feature will be to provide contextual understanding of Japanese culture. During the course emphasis will be placed on the accuracy and fluency in both spoken and written Japanese communication. The material will consist of how to communicate in daily situations such as making requests, or basic descriptions. The listening component will focus on how to understand what others say in daily conversations. As an integral part of the course, exposure to Japanese culture will be embedded to foster grammatically correct and socially appropriate use of language.

JAPN 102 Japanese II
Credit Hours: 3
This course will continue the basic Japanese speaking, listening, comprehension, reading, and writing grammar material that was covered in JAPN 101. The course will further develop an understanding of Kanji by introducing an additional 100 characters. By the end of the course students should be able to express probability, conjecture, comparison, state opinions, give reasons and provide dialogue on intentions and desires. The purpose will be to achieve an intermediate level of understanding of Japanese language.

Prerequisite
JAPN 101

LAWC 101 Introduction to Law
Credit Hours: 3
This course deals with the general theory of law and the theory of rights. Therefore, the syllabus of this course will be divided into two main parts: (1) the theory of law and (2) the theory of rights. The first part will be concerned with the concept, philosophy, development, sources, classifications and scope of application and interpretation of law in general. The second part will introduce the students to the theory of rights as known in the civil law systems. The part will deal with the concept, classification, subjects and persons of rights and other relevant issues.

LAWC 102
Human Rights
Credit Hours: 3
This course will discuss two broad issues about human rights. The first is the theory of human rights in national and international instruments; this part will cover the concept, development and classification of human rights (i.e. civil, political, social, economic and cultural rights). The development of these rights in both national and international regimes will be examined. The second part of this course will deal with the concept of international humanitarian law, its role in the protection of victims of war and its definition and relationship with the work of the ICRC. The main treaties are the four Geneva Conventions of 1949 and their Additional Protocols, as well as the Hague Conventions.

LAWC 111 Legal Research & Writing I
Credit Hours: 3
This course is a series of exercises introducing students to the way lawyers analyze and frame legal positions in litigation, conduct legal research, and present their work in written and oral argument. Students actively learn research and writing skills by preparing initial and final drafts of memoranda and briefs and by becoming familiar with accessing both print and electronic research materials.

Prerequisite
LAWC 101

LAWC 112 Sciences of Crimes&Penalties
Credit Hours: 3
A general introduction to the study of criminal behavior from an interdisciplinary perspective. The main focus is on the classical and contemporary theories developed from the past until current time, to explain and predict criminal behavior in society, and as well as examining associated penalties. In addition, the ability of these theories to explain criminal behavior in different cultures will also be examined. Other issues in criminology, such as the role of demographics (age, race, gender, social class) in the causation of reaction to crime.

LAWC 113 International Humanitarian Law
Credit Hours: 3
This course will deal with the concept of international humanitarian law, its role in the protection of victims of war and its relationship with the work of the ICRC. The main treaties are four Geneva Conventions of 1949 and their Additional Protocols, as well as the Hague Conventions. This course is to be differentiated from other related topics such as the international law of human rights.

LAWC 202 Public Finance & Taxation
Credit Hours: 3
This course deals with the concept of public finance, the fiscal role of government and its evolution, the public budget and its preparation, its laws, principles and kinds. Public budget encompasses studying public expenditures: definition, evolution determinants, implications, etc. The course addresses also the main sources of revenues such as state property, fiscal charges, public loans and taxation. This is in addition to fiscal policy.

Prerequisite
LAWC 101

LAWC 213 Sources of Obligations
Credit Hours: 3
This course introduces the students thoroughly to the fundamentals and the principles of the sources of obligations in the new Civil Code of the State of Qatar. The Sources of obligations include: (1) Contract, (2) Unilateral Will, (3) Tort liability, (4) Unjustified Enrichment and (5) Legislation.

Prerequisite
LAWC 101

LAWC 214 Effects of Obligations
Credit Hours: 3
This course deals with the legal regulation of the effects of obligations and the means of their implementation whether voluntarily or under compulsion. The course also covers the grounds under which the effects of obligations may be amended, transferred, assigned or terminated.

Prerequisite
LAWC 213

LAWC 215 Business Law
Credit Hours: 3
This course is intended to provide a general introduction to the legal environment that affects individuals, businesses, and business transactions. In addition to providing a
general introduction to the Qatari legal system, this course will concentrate on specific legal topics such as commercial, intellectual property rights and contracts. Although the focus will be on the Qatari law, other countries’ laws (in particular those of the United States of America) will be referred to throughout the study.

Prerequisite
ENGL 004 OR ENGL 111TOEFL_Inst Testing Prog 500 OR Int Eng Lang Test Syst-IELTS 5.5 OR TOEFL Internet-based Test 061 OR TOEFL Computer-based Test 173 OR

LAWC 217
Commercial Law
Credit Hours: 3
This is an introductory course to all other advanced commercial law courses. It provides the students with the general principles of commercial law; its concept, characteristics, development and sources. It will also study the legal frame and theory of commercial transactions and that of traders in the 2006 Commercial Code of Qatar. The legal status and rules of commercial premises and the rules of unfair competition will also be highlighted. The course shall also introduce students to the most common contracts of commercial nature such as the contract of sale and the contract of commercial agency.

Prerequisite
LAWC 101

LAWC 222
Constitutional Law
Credit Hours: 3
This course studies constitutional law; its nature and its relationship with other branches of law, the definition of the constitution, its sources, kinds of constitutions, their origins and developments, the diminishing relative value of constitutions and the means for protecting them through censorship and its application. The course also studies the state; its legal duties, systems of government, the concept of government and its various types with samples from systems of government. The course will also examine the constitutional system of the State of Qatar, and in particular the separation of powers doctrine and civil and political rights and liberties.

LAWC 233
Legal Writing II
Credit Hours: 3
In Legal Writing II, students will build upon the foundation provided in the earlier course Legal Writing I. Students will write memoranda based upon legal research provided to them and test their understanding and writing skills. The lab component of this course aims to equip law students with the ability to communicate using the advanced technical English language required to practice law and for academic legal study in English. Through training in speaking, reading, writing and listening, these skills will enable students to apply their abilities in every aspect of academic study and in the practice of law in any industry.

Prerequisite
LAWC 111

LAWC 250
Family Law
Credit Hours: 3
This course is designed to provide students with an understanding of family law, its origins, evolution, scope and legal implications. It will cover the legal rights and responsibilities of family members, including marriage, divorce, and child custody. The course will also examine the legal principles and procedures related to adoption and guardianship.

Prerequisite
LAWC 233

LAWC 253
Anglo-American Legal System
Credit Hours: 2 OR 3
This course is intended to introduce the students to the main features of the Anglo-American legal system, as one of the main legal systems of the world, in comparison with the Civil Law legal system.

Prerequisite
LAWC 101

LAWC 302
Advocacy Skills
Credit Hours: 3
This course will teach the practice skills used by lawyers in representing clients. It will develop lawyering skills and will address skills related to legal writing, oral advocacy, negotiations and counseling through readings, lectures and exercises.

Prerequisite
LAWC 223

LAWC 314
Law of Civil Contracts I
Credit Hours: 3
The law of civil contracts is a fundamental area of private law, covering a wide range of agreements and transactions. This course will cover the basic principles of contract law, including offer and acceptance, consideration, and the legal consequences of breach of contract. It will also examine the remedies available to parties in the event of a breach.

Prerequisite
LAWC 101

LAWC 321
Administrative Law
Credit Hours: 3
This course is designed to introduce students to the legal framework governing the relationship between the government and its citizens. It will cover the principles of administrative law, including the role of administrative agencies, the legal and procedural aspects of administrative proceedings, and the principles of judicial review.

Prerequisite
LAWC 323

LAWC 324
Criminal Law I-Private Law
Credit Hours: 3
This course deals with the major classifications of crimes in the Qatari penal code. It will focus on the definition, elements and punishment of each crime. First, crimes against the public interest: such as crimes against the state (treason, espionage, conspiracy); crimes against the administration and public property (corruption, bribery); justice crimes (contempt of court); crimes against public trust (forgery or counterfeit) and crimes against the social order (corrupt public morals or outrage public decency). Second, crimes against persons and property: such as homicide, murder, manslaughter, bodily assault, arson, kidnapping, false imprisonment, sexual crimes, blackmail, theft, robbery, fraud, computer and intellectual property crimes.

Prerequisite
LAWC 329

LAWC 329
Criminal Law II-Private Law
Credit Hours: 3
This course is divided into two main parts: (1) part one deals with the legal principles of criminal law as a general proposition; (2) part two examines the specific crimes against persons and property. The course will cover the general theory of crime and its punishment and the general theory of crime and punishment. It will focus on the characteristics and mental elements of crime (actus reus and mens rea). It will deal with the definition and forms of each element: commission and omission; attempt; causation; complicity; intention and recklessness. The course will also highlight the causes of permissibility like the Legitimate Defense, the use of authority and the right of exercising some activities. The course will deal with the capacity and incapacity conditions of the person: the age of criminal responsibility, insanity, intoxication. In addition, the course addresses the general theory of punishment and its purposes, kinds of punishment (substantive and subsidiary penalties) and its termination. At the end, the course will give some focus on the general theory of criminal preventive measures.

Prerequisite
LAWC 101

LAWC 332
Commercial Paper & Banking Transc
Credit Hours: 3
This course is divided into two main parts: (1) part one deals with the legal principles of commercial papers as negotiable instruments; their definition, characteristics and the role and capacity as regulated by the Commercial Code of Qatar; namely the Bill of Exchange, Promissory Note and Cheque. (2) the second part shall examine the legal framework of the most common banking transactions from both international and national perspective.

Prerequisite
LAWC 217
This course examines international laws and institutions. Credit Hours: 3

LAWC 345

International Trade Law

This course deals with the commercial company law in Qatar and related Ministerial decisions. It also examines international agreements on industrial and intellectual property, such as the Berne Convention, the Paris Convention and the TRIPs.

LAWC 348

Corporate Law

This course will introduce the students to intellectual property and applications, namely: copyrights and neighboring rights, industrial and commercial property rights and the laws that protect patents, trademarks and layout designs, the rules of the law that protect intellectual properties in Qatar and related Ministerial decisions. It also examines international agreements on intellectual property, such as the Berne Convention, the Paris Convention and the TRIPs.

LAWC 351

Administrative Judiciary

This course examines the causes of corruption and its types, the regulatory agencies and their role in the fight against corruption, mechanisms for promoting integrity, and the realization of the principle of transparency.

LAWC 354

Economic Crimes Law

This course deals with different forms and patterns of economic crimes. The course discusses its nature, dimensions, and the penalties for committing such behavior. The course also discusses the principles that govern organizations responsible for disclosing such crimes and the organizations in charge of implementing such behavior. The course also discusses the principles that govern organizations responsible for disclosing such crimes and the organizations in charge of implementing actions as a result of such disclosure and investigating and prosecuting of perpetrators. The importance of studying this course stems from the role that economy plays as being the lifeblood, especially in the state of Qatar which is witnessing a great economic development, possibly accompanied by some abuses and violations committed by some individuals in their endeavor of economic and business activities. This situation obliges students to understand the principles and laws which relate to economic crimes within modern Qatar laws dealing with the prosecution of the perpetrators of these kinds of crimes.

LAWC 324

Special Topics

Selected topics from specialized topics of law aimed at deepening students skills and knowledge toward developing law specialties.
international relationships either of financial character or of personal and family status and concept and applications of public order in Private International Law. The course also examines legal rules set up to determine the competent courts (conflicts of jurisdictions) in cases involving foreigners or of international character.

Prerequisite LAW 213

LAWC 414 Law of Civil Contracts II Credit Hours: 3

This course will concentrate on two other contracts nominated and regulated by the Civil Code, in particular the Moqawleh contract (contract to perform works for others), and the contract of agency. All aspects of these contracts will be examined including their formation, elements and the obligations arising therefrom.

Prerequisite LAW 214

LAWC 422 Law of Criminal Procedures Credit Hours: 3

This course deals with the “criminal process” and the structure, functions and competences of the criminal courts and the public prosecution service according to the Qatari law. It focuses on the pre-trial procedures: the arrest (with and without warrant); investigation; seizure; wiretapping; witness; interrogation; expertise; preventive detention; decisions to prosecute or not prosecute. The course will deal with the trial phase before the criminal courts, focuses on the proceedings, evidence, grounds of the judgment: appeal .... The course will also highlight the rights of the defendant in Qatar the criminal justice system.

Prerequisite LAW 323

LAWC 433 Oil & Gas Law Credit Hours: 3

This course examines the history, development and legal nature of agreements and contracts of exploration, production and sale of Oil and Gas. It focuses on the special legal distinctiveness of these legal instruments in the Arab, oil States including the State of Qatar. The course instructor is advised to discuss with the students the terms of standard-forms of concession, exploitation, production agreements, contract/contract/convention or other oil related agreement in order to clarify those special features. It is advisable, however, to introduce the students to the alternative means of settlement of Oil and Gas disputes, especially arbitration and conciliation.

Prerequisite LAW 101

LAWC 443 International Criminal Law Credit Hours: 3

This is a new advanced course dealing with the international crime, which includes the violation of international order and values. It has double nature because it belongs to both criminal and international law. This double nature effects many rules of it. The course will examine the definition concept and scope of the international crime. The course deals with the general elements of the international crime and the causes of the crimes, the definitions and the concepts of human rights and humanitarian law. The course deals with some specific acts that considered as international crimes such as: the aggression war, war crimes, unlawful use of weapons, genocide, crimes against humanity, apartheid, slavery and related crimes, piracy, crimes relating to international air communication, threat and use of force against internationally protected persons, taking of civilian hostages, etc.

Prerequisite LAW 253

LAWC 449 Environment Law & Regin Credit Hours: 3

This new course deals with national and international laws and regulations which protect environment from degradation and pollution and the effectiveness of these legal instruments in achieving this goal.

LAWC 450 Law of Proc in Civ&Cmrl Mtrs Credit Hours: 3

This course will cover both law of evidence and law of enforcement. It will therefore shed the light on the general theory of the law of evidence and the different substantive and procedural legal aspects of the methods of proof: testimony, oath, declaration or confession, presumptions, expertise and inspection. On the other hand, the course will explain the general theory and practice of compulsory enforcement procedures of legal judgments, arbitral awards, commercial papers and other enforceable instruments by the judiciary (i.e. the enforcement court).

Prerequisite LAW 316

LAWC 451 Alienat Dispute Resolutions Credit Hours: 3

This is an advance course which will examine the theory and practice of international commercial arbitration in both national and international laws. It will cover all rules of the arbitration agreements, arbitral tribunal, arbitral proceedings and arbitral awards. A considerable weight must be given to the New York Convention, the UNCITAL Model Law and all regional and international instruments to which the State of Qatar is a party.

Prerequisite LAW 217

LAWC 459 Drafting of Business Contract Credit Hours: 3

This is an applied course which is intended to provide the students with the necessary legal English writing and negotiation skills that relate to both contracts and dispute management.

Prerequisite LAW 217

LAWC 460 Moot Court I Credit Hours: 3

Moot Court I has two main goals. One goal is to train students to serve as advocates in disputes that arise between governments and individuals that will be decided by the use of international law. Students will initially focus on analyzing legal authorities and issues so as to be able to present effective oral arguments to a judicial or arbitral panel. Students will then continue to develop their legal analysis and research skills, as well as their persuasive writing skills, by synthesizing various legal arguments related to international legal disputes from the perspective of a judicial officer. Another goal of the course is to provide students with the unique skills that are necessary to participate in a Qatar University College of Law Moot or a regional or international moot. While all students will practice and deliver final oral arguments as a part of the course, top students may be invited to represent Qatar at a moot court competition. Accordingly, the initial weeks of the semester will be focused on developing students’ oral arguments to a level necessary for participating in a moot court competition. Some of the deadlines for assignments will be dictated by the requirements of a particular moot court competition and students will be expected to work on assignments throughout the semester. Top performing students may be invited to travel abroad to represent Qatar University at a moot court competition in the Spring semester.

Prerequisite LAWC 111 AND LAWC 223

LAWC 464 International Investment Law Credit Hours: 3

This course introduces the students to the concept, origins and roles of the law of foreign investments; national standards v. international minimum standard; International efforts to regulate foreign investment (e.g. United Nations efforts, Efforts made by the World Bank, OECD efforts and the role of the World Trade Organization; regulation of investments under bilateral and regional investment treaties (BITs) and the national case-law on the treatment of foreign investment.

Prerequisite LAW 217

LAWC 480 Moot Court II Credit Hours: 3

Moot Court II has two main goals. One goal is to continue to train students to serve as advocates in disputes that arise between governments and individuals that will be decided by the use of international law. Students will initially focus on analyzing legal authorities and issues so as to be able to present effective oral arguments to a judicial or arbitral panel. Students will then continue to develop their legal analysis and research skills, as well as their persuasive writing skills, by synthesizing various legal arguments related to international legal disputes from the perspective of a judicial officer. Another goal of the course is to provide students with the unique skills that are necessary to participate in a Qatar University College of Law Moot or a regional or international moot. While all students will practice and deliver final oral arguments as a part of the course, top students may be invited to represent Qatar at a moot court competition. Accordingly, the initial weeks of the semester will be focused on developing students’ oral arguments to a level necessary for participating in a moot court competition. Some of the deadlines for assignments will be dictated by the requirements of a particular moot court competition and students will be expected to work on assignments throughout the semester. Top performing students may be invited to travel abroad to represent Qatar University at a moot court competition in the Spring semester.

Prerequisite LAWC 460

LAWC 484 GCC Law Credit Hours: 3

This course examines the legal background of the GCC in the light of international and regional law, with special emphasis on the GCC legal tradition. The course will cover the history of the GCC from the foundation of the Gulf Cooperation Council (GCC) in 1981 to the current status of the Union. The course will also examine the legal instruments governing the GCC and the legal and institutional frameworks that are in place to implement these instruments. The course will also consider the role of the GCC in regional and international affairs and the challenges facing the GCC in the context of global economic and political developments. The course will also provide students with an understanding of the legal and institutional frameworks that are in place to implement the objectives of the GCC. The course will also examine the legal instruments governing the GCC and the legal and institutional frameworks that are in place to implement these instruments. The course will also consider the role of the GCC in regional and international affairs and the challenges facing the GCC in the context of global economic and political developments. The course will also provide students with an understanding of the legal and institutional frameworks that are in place to implement the objectives of the GCC.
This course examines the behavior of individuals and groups in organizations. Among the topics covered include perception, learning, attitudes, motivation, contingency variables influencing structure, leadership and workgroups.

Prerequisite: MAGT 101 OR MAGT 112

MAGT 302 Human Resources Mgmt

This course focuses on various aspects of the human resource function in organizations with special emphasis on the policies and practice of human resource management. Among the topics to be covered include the concept of human resource management, its importance, evolution and functions including manpower, job description, recruitment and selection, wages and salaries, and training and management development, performance appraisal, disciplinary action, law, information systems, and current issues.

Prerequisite: MAGT 101 OR MAGT 112

MAGT 303 Exp-Ent Bus Mgmt

This course focuses on the entrepreneurial process and the different kinds of entrepreneurial outcomes. Topics covered include opportunity identification through analysis of industry niches, skills needed in order to turn an opportunity into reality, business plans, launch decisions, and obtaining risk capital.

Prerequisite: FINA 201 AND MAGT 101 AND ECON 112 AND ( MAGT 116 OR ACCT 112)

MAGT 304 Production & Operations Mgmt

This course focuses on the production function in industrial organizations. Topics covered include various techniques utilized in decision making, production systems, and activities related to the design of systems, product design, demand forecast and correlative and tactical production planning as well as production and quality control.

Prerequisite: ( MAGT 101 OR MAGT 112) AND ( STAT 220 OR STAT 155)

MAGT 305 Comparative Management

This course focuses on the analysis of managerial performance in different cultures. Topics covered include the examination of the international dimensions of organizational behavior in different countries and the varying socioeconomic, political, and legal variables that interact with culture to affect local and international management.

Prerequisite: MAGT 304

MAGT 306 Intl Mgmt

This course focuses on the management of business across national borders. Topics covered include the characteristics of international companies, theories of international trade and investment, cultural, social, economic, political and financial environments of international firms as well as the international dimension of the basic enterprise functions such as finance, production, marketing, and personnel.

Prerequisite: FINA 201 AND ECON 112

MAGT 307 Internship in Business

This course provides students with an industry internship with an organization providing guided experience in their field. Students’ internship experiences are assessed via a written internship report that will be evaluated by the students’ organization supervisor and an assigned faculty member.

Prerequisite: MAGT 304 AND ( ACCT 116 OR ACCT 112)

MAGT 328 Business Planning for Enter.

Credit Hours: 3

This course offers an introduction to the process of turning a new product idea into a successful start-up enterprise. It focuses on management processes related to the identification of new business opportunities, developing the business plan for a new venture and the entrepreneurial process of executing the first phases of new venture creation. Topics include idea conception, entrepreneurship, business planning, market research, entrepreneurial opportunities and strategies. The final deliverable is a complete business plan for a high-growth venture.

Prerequisite: MAGT 303 AND STAT 220


Credit Hours: 3

This course will focus on the challenges of building and managing an enduring, successful company or renewing the vitality of an existing organization. Students will learn how to use well-researched theories about strategy, innovation and management to understand why things happen the way they do in businesses, and to understand what management tools, strategies and methods will and will not be effective in different circumstances in which our students find themselves.

Prerequisite: MGMT 101 AND ACCT 110 AND FINA 201

MAGT 401 Quant Methods-Dec Making

Credit Hours: 3

This course focuses on the use of quantitative methods in managerial decision making. Topics covered include linear and integer programming techniques and their applications in business and economics, integer programming, dynamic programming, simulation, inventory analysis, game theory, PERT, CPM and other quantitative methods for decision making.

Prerequisite: MAGT 304 AND STAT 222

MAGT 402 Organization Theory

Credit Hours: 3

This course examines the different theories of organization and how they are used in managing today’s organizations. Topics covered include strategic and applied approach to organization theory that emphasizes decision-making. A balance of theory, research, and practice, focusing on how students as potential future managers can use their knowledge of organization theory to be better managers and organization members to be presented.

Prerequisite: MAGT 304 AND STAT 222
MAGT 301

MAGT 403 E-Business
Credit Hours: 3
This course focuses on issues beyond the extraordinary growth in e-commerce and the high level of dotcom failures to appreciate the continuing changes in the digital economy. Within this context, the e-business course aims to twofold: firstly, to appreciate the context for e-business, and secondly, to develop a framework for considering e-business initiatives and possible future developments. Topics covered include the concepts of e-business and e-commerce, internet market research, models of e-commerce, intranet and extranet, electronic payment systems, e-business strategy and implementation, e-business infrastructure, and current issues in e-business.

Prerequisite
MIST 201 AND MAGT 306

MAGT 404 Project Management
Credit Hours: 3
This course focuses on the various issues and techniques in managing a project. Topics covered include project life cycle, project definition, project planning, techniques of managing projects, project planning covering cost, quality and time dimensions, responsibility assignment and progress review.

Prerequisite
STAT 220 OR STAT 155 OR STAT 153

MAGT 405 Strategic Management
Credit Hours: 3
This course focuses on developing a corporate vision towards the integration of various organization functions by taking into account the organization’s internal and external environment. It also aims to comprehend the strategic planning of the organization and proceed with strategic evaluation and implementation. Topics covered include environmental scanning, strategy formulation, strategy implementation and control, and other strategic issues.

Prerequisite
FINA 201 AND MAGT 101

MAGT 406 Total Quality Management
Credit Hours: 3
This course focuses on the concepts related to quality in all aspects of enterprise operations with special emphasis on the customer. Topics covered include the examination of workers’ participation, teamwork and creative leadership, quality control, training, tools of total quality and obstacles facing total quality management.

Prerequisite
MAGT 304

MAKT 101 Principles of Marketing
Credit Hours: 3
This course covers the basic concepts of marketing, topics covered include definition of marketing, evolution of the concept of marketing, basic issues facing marketing in the contemporary organization in addition to consumer behavior and market research and segmentation.

Prerequisite
MAGT 101 OR MAGT 112

MAKT 301 Consumer Behavior
Credit Hours: 3
This course focuses on examining an interdisciplinary study using behavioral science concepts to explain consumer motivation, information processing, and consumption behavior. Topics covered include information processing, involvement, affect and emotion, attitudes and attitude change, individual factors (e.g., personality), group processes (e.g., reference group and family/household influences), social influences (e.g., culture and subcultures), and consumption decision and post-decision processes. The relationship between each of these factors and marketing strategies will be a key concern and focal point.

Prerequisite
MAKT 302

MAKT 302 Marketing Management
Credit Hours: 3
This course focuses on the application of marketing and management principles to the marketing function. Topics covered include strategic marketing, study of the social and economic environment of marketing as well as the management of marketing mix.

Prerequisite
MAKT 101

MAKT 303 International Marketing
Credit Hours: 3
This course focuses on issues related to marketing in a global context, and its impact on the marketing strategy, market and product business portfolio, market segmentation and positioning strategies.

Prerequisite
MAKT 401 OR MAKT 301 OR MAKT 302

MAKT 401 Marketing Research
Credit Hours: 3
This course focuses on the techniques used in conducting marketing research and their applications in solving marketing problems. Different research methodologies and designs will be covered. Students will also learn how to collect, analyze and interpret data to better make decisions and address marketing problems.

Prerequisite
MAKT 101 AND STAT 220

MAKT 402 Sales Management
Credit Hours: 3
This course examines the role of sales managers in line and staff planning. Topics covered include selection, organization, supervision, compensation, motivation of the sales force, and coordination of sales with other marketing functions.

Prerequisite
MAKT 401 OR MAKT 302

MAKT 403 E-Marketing
Credit Hours: 3
This course examines the changes in marketing resulting from the move to the Internet by nonprofits, businesses, and government. It highlights the effective interactive marketing practices for consumer firms and business-to-business firms.

Prerequisite
MAKT 401 AND MAKT 301

This course focuses on the policies and techniques adopted by a firm to select and utilize opportunities in the international market and adapt its marketing strategies to suit the international environment.

Prerequisite
MAKT 101

MAKT 304 Strategic Marketing
Credit Hours: 3
This course focuses on the strategies of consumer goods and business-to-business marketing. The similarities and the differences between consumer goods and business-to-business marketing are discussed, with specific focus on organization buying behavior and the overlap between marketing, operations and human resource functions in service organizations.

Prerequisite
MAKT 301

MAKT 405 Promotion Management
Credit Hours: 3
This course focuses on developing an understanding of the role of advertising both in the firm and in society, and an ability to integrate the different aspects of advertising into a comprehensive promotional plan.

Prerequisite
MAKT 302

MAKT 406 Business to Business Marketing
Credit Hours: 3
This course is intended to provide the student with the managerial aspects of industrial and business-to-business marketing. The similarities and the differences between consumer goods and business-to-business marketing are discussed, with specific focus on organization buying behavior and relationship marketing.

Prerequisite
MAKT 301 OR MAKT 302

MARS 101 Intro to Marine Science
Credit Hours: 3
This course focuses on the unique characteristics of the service environment, adapting marketing management concepts to the service business context. The course covers identifying and analyzing the various components of the extended services marketing mix and discussing key issues concerning the management and measurement of service quality and customer satisfaction. It provides an understanding of the critical role of service personnel and customers with respect to service delivery, service failure, and service recovery. It also examines relationship marketing and the overlap between marketing, operations and human resource functions in service organizations.

Prerequisite
MAKT 301
the open ocean - Life on the ocean floor - Food web in marine environment - Factors affecting life in the ocean - Human interactions. Practical: Basic units - Ocean depth - measurements - Bottom topography - Marine sediments - Waves and currents - Tides - Chemical constituves of marine water - Taxonomic and morphological study on selected species which represent different groups of marine organisms.

**Prerequisite**
Biol 101

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit Hours</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MARS 222</td>
<td></td>
<td><strong>Chemical Oceanography I</strong></td>
</tr>
<tr>
<td><strong>Credit Hours:</strong></td>
<td>3</td>
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<tr>
<td></td>
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<td>It is an introduction to explore the chemistry of the ocean including the chemical composition, reactions taking place in the ocean, their kinetics. The course focuses on the chemical cycles and dynamics of elements as well as dissolved gases stockehmey and extends to cover the chemistry of some specific marine environments.</td>
</tr>
<tr>
<td><strong>Prerequisite</strong></td>
<td></td>
<td>MARS 101 AND CHEM 275</td>
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<tr>
<td>MARS 251</td>
<td></td>
<td><strong>Marine Biology</strong></td>
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<tr>
<td><strong>Credit Hours:</strong></td>
<td>3</td>
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<td>This course is intended to provide an overview of this diverse discipline. The first portion of the course focuses on the marine environment and an overview of the organisms found in the oceans. The next portion of the course covers the ocean edges, looking at specific habitat types such as, intertidal and sub-tidal habitats, estuaries, salt-marshes, coral reefs and mangroves.</td>
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<tr>
<td><strong>Prerequisite</strong></td>
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<td>MARS 101</td>
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<tr>
<td>MARS 252</td>
<td></td>
<td><strong>Marine Pollution</strong></td>
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<tr>
<td><strong>Credit Hours:</strong></td>
<td>3</td>
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<td>This course covers types and sources of pollutants and their impact on the marine environment. The course focuses on how human activities have induced changes to the marine environment, through discharge of anthropogenic chemicals including sewage, oil, pesticides, radioactivity and endocrine disrupting chemicals. The course has hands on studies from disposal, factory wastes, mining, radioactivity and other pollutants, and touches the methods of combating marine pollution and protection of the Arabian Gulf marine environment.</td>
</tr>
<tr>
<td><strong>Prerequisite</strong></td>
<td></td>
<td>MARS 222</td>
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</table>

**MARS 327 Plankton & Productivity**

**Credit Hours:** 3

This course covers physical aspects of the Ocean Environment; Chemical composition and characteristics of seawater; Primary productivity, algae of Photoplankton; Photoplankton group; Harmful species and their distribution; Zooplankton group; Flotation mechanisms; Photoplankton crop; Factors limiting primary production.

**Prerequisite**
MARS 251

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit Hours</th>
<th>Description</th>
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<tbody>
<tr>
<td>MARS 455</td>
<td></td>
<td><strong>Marine Ecology</strong></td>
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<tr>
<td><strong>Credit Hours:</strong></td>
<td>3</td>
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<td>The Marine Ecology course is a broad survey of marine organisms and habitats. It focuses on the processes controlling marine ecosystems, communities, and populations, and demonstrates how general ecological principles apply to marine systems. Therefore, although we will be learning some details about marine Biota, our goal will be to integrate knowledge of their biological and physical environments into an understanding of the processes that determine their distributions, abundances, and activities.</td>
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<tr>
<td><strong>Prerequisite</strong></td>
<td></td>
<td>MARS 251</td>
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<tr>
<td>MARS 458</td>
<td></td>
<td><strong>Fisheries and Aquaculture</strong></td>
</tr>
<tr>
<td><strong>Credit Hours:</strong></td>
<td>3</td>
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<td>This course focuses on the population structure in fishes, their reproduction and life strategies, their food requirements and growth. The aquaculture industry; identification of the characteristics of aquatic species; proper aquaculture management practices; the fundamentals of aquatic nutrition; optimum health in aquatic animals; proper water quality requirements for aquaculture; structures and equipment needed in the aquaculture industry.</td>
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<tr>
<td><strong>Prerequisite</strong></td>
<td></td>
<td>MARS 251</td>
</tr>
</tbody>
</table>

**Projects to suit the local environment and communities, and present the prediction and options to decision-makers.**

**Prerequisite**
MARS 251

<table>
<thead>
<tr>
<th>Course</th>
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<th>Description</th>
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</thead>
<tbody>
<tr>
<td>MATH 101</td>
<td>3</td>
<td><strong>Intermediate Algebra</strong></td>
</tr>
<tr>
<td><strong>Credit Hours:</strong></td>
<td></td>
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<tr>
<td></td>
<td></td>
<td>Limits and continuity. Differentiation. Applications of derivatives. Integration. Inverse functions. Applications of the integral</td>
</tr>
</tbody>
</table>
| **Prerequisite**                      |              | MATH 004 OR MATH P100 OR Scholastic Aptitude Test-SAT 550 OR American College Testing-AC 24 OR (Elementary Algebra 082 AND College Level Math 095) AND (ENGL 040 OR ENGL C002 OR Total for Integrated Core 400) AND (ENGL 041 OR ENGL R002 OR ESL Reading Skills 100) AND (ENGL 042 OR ENGL W002 OR APL for Writing Workshop 225) OR (Total for Integrated Core 400 AND ESL Reading Skills 100 AND ESL Language Use 100) OR TOEFL-Inst Testing Prog 500 OR TOEFL Internet-based Test 081 OR TOEFL Computer-based Test 173 OR Int Eng Lang Test Syll-IELTS 5.5 OR ENGL 004 OR ENGL 111 OR ENGL 250 OR ENGL 201 OR ENGL 202)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit Hours</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 102</td>
<td>3</td>
<td><strong>Calculus II</strong></td>
</tr>
<tr>
<td><strong>Credit Hours:</strong></td>
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<td>MATH 102 is the second course in a three-course calculus series (CALCULUS I-II-III) which is required for Science and Engineering students. It starts from the study of transcendental functions. Then a very important part covers the techniques of integration. Parametric equations and polar coordinates are studied and applied to finding area in polar coordinates. Finally the sequences and series are taken into account. A number of tests for convergence are learned in this course. Taylor and Maclaurin’s series are applicable series.</td>
</tr>
<tr>
<td><strong>Prerequisite</strong></td>
<td></td>
<td>MATH 101</td>
</tr>
<tr>
<td>MATH 103</td>
<td></td>
<td><strong>Intermediate Algebra</strong></td>
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<tr>
<td><strong>Credit Hours:</strong></td>
<td>3</td>
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<tr>
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<td></td>
<td>This is an elementary course which provides the students with the basic concepts and skills about numbers, polynomials and rational expressions along with algebraic operations. Also, it furnishes students with basic facts about relations and functions along with sketching of graphs of certain functions.</td>
</tr>
</tbody>
</table>
| **Prerequisite**                      |              | (ENGL 040 OR ENGL C002 OR Total for Integrated Core 400) AND (ENGL 041 OR ENGL R002 OR ESL Reading Skills 100) AND (ENGL 042 OR ENGL W002 OR APL for Writing Workshop 225) OR (Total for Integrated Core 400 AND ESL Reading Skills 100 AND ESL Language Use 100) OR TOEFL-Inst Testing Prog 500 OR TOEFL Internet-based Test 081 OR TOEFL Computer-based Test 173 OR Int Eng Lang Test Syll-IELTS 5.5 OR ENGL 004 OR ENGL 110 OR ENGL 201 OR ENGL 202)
with basic set properties, functions, and graphs.

Prerequisite MATH 103

MATH 211 Calculus III Credit Hours: 3
Calculus III (Math 211) is the last course in a series of 3 calculus courses. The course generalizes the concepts learned in both Calculus I and II to vector functions and functions of several variables. Preliminary concepts and tools such as dot products, cross products, vector parameterization, lines and planes in space are first introduced. Then differentiation and integration and their applications are covered in detail. In particular, optimization problems for several variables, areas and volumes using by multiple integrals are stressed.

Prerequisite MATH 102

MATH 217 Mathematics-Engineering Credit Hours: 3
Mathematics for Engineers is a course which introduces some mathematical tools for solving and analyzing the problems arising in the mathematical modeling in engineering. A specified differential equation endeavors to match the known features of the application being modeled, as well as to be able to predict the systems' behavior in other circumstances. The course integrates theory and applications using a problem-based approach. This course prepares the students for future learning in relation to problem solving and decision-making, technical competence, teamwork and leadership.

Prerequisite MATH 211

MATH 221 Business Mathematics II Credit Hours: 3
This course covers some economic applications of mathematical concepts such as the linear and non-linear functions, difference equations, partial derivatives, constrained and unconstrained optimization problems, definite and indefinite integration in addition to mathematics of finance.

Prerequisite MATH 101 ( OR ENGL 004 OR ENGL 111 OR ENGL 202 OR ENGL F073TOEFL Internet-based Test 061 OR TOEFL Computer-based Test 173 OR TOEFL_Instr

Testing Prog 500 OR Int Eng Lang Test Syst-IELTS 5.5 OR OR ENGL 040)

MATH 222 Real Analysis Credit Hours: 3

Prerequisite MATH 220

MATH 223 Linear Algebra Credit Hours: 3
Mathematics for Engineers is a course which introduces some mathematical tools for solving and analyzing the problems arising in the mathematical modeling in engineering. A specified differential equation endeavors to match the known features of the application being modeled, as well as to be able to predict the systems' behavior in other circumstances. The course integrates theory and applications using a problem-based approach. This course prepares the students for future learning in relation to problem solving and decision-making, technical competence, teamwork and leadership.

Prerequisite MATH 101

MATH 251 Mathematics for Statistics Credit Hours: 3

Prerequisite MATH 102

MATH 256 Numerical Analysis I Credit Hours: 3

Prerequisite MATH 101 OR CMPS 221 OR CMPS 223 AND MATH 102

MATH 385 Advanced Mathematics Credit Hours: 3
Advance Mathematics is a course designed only for engineering students. It is a 3 credit single semester course with three contact hours a week. This course introduces the students to some of vector calculus concepts, some special functions, complex numbers and complex functions. It focuses mainly on line integrals, surface integrals and on some applications of these integrals, Gamma functions, Beta functions and Bessel functions. The prerequisite of this course is Calculus III.

Prerequisite MATH 211

MATH P100 Pre-Calculus Credit Hours: 3
This course is a pre-calculus course to help prepare students for calculus in which topics such as Solve Quadratic and Rational Inequalities, Graphs and Functions, Exponential and Logarithmic functions, values of Trigonometric functions of acute angles, and identify the equations of Ellipses & Hyperbolas will be covered. In addition, the course will provide students with skills, knowledge, and mathematical maturity necessary for success in the Calculus courses.

Prerequisite MATH 021 OR American College Testing-ACT 21 OR Scholastic Aptitude Test-SAT 550 OR Elementary Algebra 082 OR MATH 003 AND ( (ENGL 020 AND ENGL 021) OR (ENGL 020 AND ESL Reading Skills 063) ) OR (Total for Integrated Core 269 AND ENGL 021) OR (Total for Integrated Core 269 AND ENGL R001) OR (Total for Integrated Core 269 AND ESL Reading Skills 063) OR (ENGL C001 and ENGL R001 ) OR (ENGL C001 AND ESL Reading Skills 063) OR ENGL 002 OR ENGL 003 OR ENGL 004 OR TOEFL 500 OR TOEFL IBT 061 OR TOEFL CBT 173 OR IELTS 5.5 )

MCOM 103 Media and Society Credit Hours: 3
This course introduces students to the basics of communication, and provides an overview of the history and development of the various mass media. It deals with issues pertained to the role of communication media in society, and highlights issues of press freedom and social responsibilities of the media; role of media in fostering diversity; and the impact of mass media on society. The course provides a critical evaluation of media content in relation to social and cultural variables of society.

Prerequisite MCOM 103 OR MCOM 101

MCOM 215 Multimedia Report. & Writ. I Credit Hours: 3
The course is an introduction to creating, repurposing and assembling content for distribution across integrated media platforms. Audio slideshows, video with sound, computer-based management of photos/video, Web-related skills. It provides students with a hands-on experience in writing Web content using basic HTML, creating and maintaining blogs with journalistic content, creating a Web news story and creating an audio/video news story.

Prerequisite MCOM 212

MCOM 222 Communication Theories Credit Hours: 3
This course deals with studying the most important communication theories and models, which emerged since the 1928s and their relationship to the practical media practices and applications. The course pays special attention to the powerful effects theories, the selective effect theories, the indirect effect theories, as well as the critical approach.

Prerequisite MCOM 103 OR MCOM 101

MCOM 223 Media Writing Credit Hours: 3
In this course students are taught the basic news forms with emphasis on the structure and techniques for the print and electronic media, as well as public relations news writing. The course includes a theoretical element
that focuses on historical evolution of news writing, news values, news worthiness and the styles of news presentation, including headlines, body and conclusion.

Prerequisite
MCOM 103 OR MCOM 101

MCOM 226 Special Topics in Mass Comm.
Credit Hours: 3
This course considers important current issues in mass communication fields. Topics may vary from semester to semester depending on the current issues in the field. The content will be geared towards the three concentrations of strategic communication, journalism or broadcasting. The course will provide students with the expertise of academicians/practitioners in the field.

Prerequisite
MCOM 103 OR MCOM 101

MCOM 303 Women and Media
Credit Hours: 3
This course encourages a foundational understanding of women and mass media. It helps students gain an understanding of the relationship between women and the mass media from global and regional perspectives. The course focuses on the mass media representation of women and gender roles, including whether and how women representation in the mass media has changed over time, what forces have affected women representation, and the current state of women representation.

Prerequisite
MCOM 103 OR MCOM 101

MCOM 315 Comm. Research Methods
Credit Hours: 3
This course is designed to help students to learn to report and write in depth. Students in this class are expected to start thinking of themselves as real working journalists. Students will develop their tools of critical thinking in conceptualizing, developing and writing stories. They will learn advanced interviewing techniques, investigative research methods and the interpretation of trends and surveys. The course will focus on the analysis and practice of complex storytelling, including the use of narrative techniques.

Prerequisite
MCOM 215 OR MCOM 223

MCOM 349 Sports Journalism
Credit Hours: 3
This course aims to help students develop practical skills in print, online, radio and TV sports reporting. Cohorts will be encouraged to assume the professional role of journalists working for newspapers, television, radio and the web in efficiently sourcing, gathering and producing journalistic material. Students will report on real sports events in an active learning environment. Trainers and guest lecturers from various sports media agencies and networks will be sharing their practical expertise in introducing students to the world of sports journalism.

Prerequisite
MCOM 222

MCOM 350 Mult. Rept. & Writing II
Credit Hours: 3
This is an advanced course that aims to provide students with more practical practice of Multimedia Reporting and Writing 1. It is designed for students of online journalism to work in a team of journalists to apply what they have learned about convergent journalism to several major stories from the real world.

Prerequisite
MCOM 215 OR MCOM 223

MCOM 360 Photojournalism
Credit Hours: 3
This course introduces students to the art and science of photography as it applies to journalism. It aims to build skills of photography, including camera and equipment operation, shooting for the press and digital editing. Students also learn the fundamentals of photojournalism production, the standards and ethics of photography, and the symbolic meaning of the image. By the end of this course, students will know how to take the perfect shot,
and will be able to work as members of a news-gathering team and will lay out photo stories for newspaper, magazine and online news platforms.

**Prerequisite**

MCOM 212

MCOM 361  

Credit Hours: 3

This course focuses on the following: Writing journalism for different media; writing journalism for different publics; writing journalism for different genres (news, features, opeds, profiles); media law and ethics; research methods; broadcast news writing for diversity in a globalized world; a practical guide to producing broadcast news; critical journalism and independence.

**Prerequisite**

MCOM 350

MCOM 363  
Announcing

Credit Hours: 3

This course will introduce the basics of announcing skills. Students will be trained on pronunciation, rate, pacing and articulation. They will also be required to use vocal variety and vocal variety. By the end of the course students should be able to present different genres and they will be able to recognize the difference between good and bad announcing.

**Prerequisite**

MCOM 215 OR MCOM 223

MCOM 364  
Broadcast Production

Credit Hours: 3

This course introduces students to the basic concepts of audio and video production. The students are trained on the operation of digital video cameras, TV studio cameras, digital audio recorders, the different types of microphones, lights and lighting styles. The students are trained in basic treatment, synopsis and script writing for a variety of radio and TV programs. The students produce Public Service Announcements (PSAs), documentaries, and Radio and TV program in which the PSAs and the documentaries are inserted.

**Prerequisite**

MCOM 215 OR MCOM 223

MCOM 365  
Script Writing

Credit Hours: 3

This course helps students in developing skills of preparing and writing scripted dramatic material. Students are trained in script writing and introduced to the differences between TV and movies scripts. It emphasizes the important elements, such as theme, story, dialogue, which shape the process of developing and writing a script.

**Prerequisite**

MCOM 215 OR MCOM 223

MCOM 366  
Broadcast Directing

Credit Hours: 3

This course focuses on the principles of radio and television directing, such as the techniques of mixing sound with music, and using sound effects according to the type of program. The skills of broadcast directing, such as switching between the shots, the basics of good television composition, and the technical problems involved.

**Prerequisite**

MCOM 361

MCOM 367  
Brod. New.Report & Writ. II

Credit Hours: 3

This hands-on course explores more advanced aspects of writing and reporting in the area of broadcast. It specifically delineates the differences between writing for audio and writing for the image. The course also provides the different techniques and approaches to writing for different genres, namely hard news, soft news, features, opinions and profiles.

**Prerequisite**

MCOM 361

MCOM 381  
Princ. of Public Relations

Credit Hours: 3

The course highlights the principles and the essential foundations of public relations, and it explains the most important concepts and terminology in the field. The course also discusses the professional and ethical guidelines in designing, applying and evaluating PR activities, and it explains the stages of successful planning of public relations.

**Prerequisite**

MCOM 222 OR MCOM 103 OR MCOM 101

MCOM 382  
Organizational Communication

Credit Hours: 3

This course introduces the concept of organizational communication and its various principles, and puts special emphasis on learning and practicing the skills of effective organizational communication for institutional management through case-study model. The course adopts a methodology that tries to bridge the gap between theory and practice by putting students in real case-studies of organizational communication to handle.

**Prerequisite**

MCOM 103 OR MCOM 101

MCOM 383  
Principles of Advertising

Credit Hours: 3

This course is an introduction to advertising in terms of concepts, procedures, design and campaigns. It will also compare the types of advertisements created for print and broadcast media with special emphasis on the effects of the new media on the advertising industry and audience. Students will be expected to create and evaluate advertisements. Furthermore, they will be expected to conduct research on consumers and the market and to create advertisements and advertising campaigns based on the results of their research.

**Prerequisite**

MCOM 222 OR MCOM 212

MCOM 384  
Advert. Copy Writing & Design

Credit Hours: 3

In this course the students are introduced to the basics of applying psychological and cognitive knowledge to creative advertising designs. Students learn how to use graphics and multimedia in designing ads, and are trained in the design and layout of attractive print and electronic ads. Students are expected to develop their own portfolio for the work they do during the course.

**Prerequisite**

MCOM 383

MCOM 386  
Public Relations and New Media

Credit Hours: 3

This course focuses on the assessment of the tactical and strategic implications of digital technology for profit and not-for-profit organizations. Module content includes an examination of the potential of digital technologies for public relations campaigns, the particular challenges of online communication and the planning, management and evaluation of interactive communications campaigns. Students will be required to apply the digital technologies to their PR campaigns.

**Prerequisite**

MCOM 215 OR MCOM 223

MCOM 388  
Public Rela. Writ. & pres

Credit Hours: 6 OR 3

This course focuses on public relations writing and the preparation of presentations for public relations purposes. The course focuses on writing newsletters, press releases, brochures and books as well as the preparation and delivery of presentation for the organization’s audiences. The course teaches students techniques and writing styles which are used for the production of publications and for presentations. Students prepare samples of such publications and presentations for evaluation.

**Prerequisite**

MCOM 381

MCOM 447  
Journalism Internship

Credit Hours: 3

This course provides students with an opportunity for actual on-the-job experience in the professional field. Students are supervised by faculty member and professional trainer and are required to turn in two reports.

**Prerequisite**

MCOM 341 AND MCOM 342 OR MCOM 344

MCOM 450  
Multi. Journalism - Capstone

Credit Hours: 3

This is a capstone course which is designed to stimulate students to conduct group projects, or to develop individual portfolios, in the production of at least two issues of laboratory/web newspapers or magazines under the supervision of a faculty member. Students are given hands-on experience as a reporters and editors as they produce the issues.

**Prerequisite**

MCOM 343 AND ( MCOM 342 OR MCOM 344)
MCOM 452  
Magazine Writing  
Credit Hours: 3  
The course focuses on writing and reporting for magazines. It also introduces the basic features of writing, information gathering and analysis for specialized and general circulation magazines. The course includes also practical training in interviewing, investigation, and developing portfolios. It will emphasize the difference between writing news and feature stories.

Prerequisite  
MCOM 341

MCOM 465  
Web-Content for Radio  
Credit Hours: 3  
This course is designed to give the student an understanding of radio delivered via the Internet and the opportunity to produce and deliver digital audio content. Students are introduced to the radio industry and radio production standards for the Internet. Using professional recording and mixing equipment the students learn the basics of telling a good story. Each student goes through the process of writing for radio, in-depth reporting, imaginative use of sound, and high production values.

Prerequisite  
MCOM 216 OR MCOM 223

MCOM 467  
Broadcast Internship  
Credit Hours: 3  
This course provides an opportunity to the student to acquire practical skills in an area of mass communication (Public Relations, Broadcast Production, Print / Online Journalism). Each student is required to spend 10 hours weekly for 8 weeks in his or her designated institution under the direct supervision of a training field mentor from the institution and an academic supervisor from the university.

Prerequisite  
MCOM 364 AND MCOM 361 OR MCOM 362

MCOM 469  
TV Documentary Production  
Credit Hours: 3  
This course introduces key concepts of the documentary film, its different modes, its various elements, the factors needed for its success, as well as the various stages of producing it. The student is taken through training in preparing the treatment, synopsis, script, scheduling, shot list, and storyboards. The student is also taken through the fundamental elements of production and post-production of a major project.

Prerequisite  
MCOM 361

MCOM 470  
Broadcast Capstone  
Credit Hours: 3  
In this course, the student uses the various technical, analytical and thematic skills in the field of radio and television in the context of a complex and multi-layered graduation project. This could include, but not limited to, producing documentaries, features, talk shows, audio and video essays, and experimental pieces. Each project must go through the stages of idea development, writing and presenting a production folder, presenting a rough-cut (rough edit) of the work, and finally presenting the finished mastered work.

Prerequisite  
MCOM 361 OR MCOM 362 AND MCOM 350

MCOM 487  
PR-AD Internship  
Credit Hours: 3  
This course provides an opportunity to the student to acquire practical skills in an area of mass communication (Public Relations, Broadcast Production, Print / Online Journalism). Each student is required to spend 10 hours weekly for 8 weeks in his or her designated institution under the direct supervision of a training field mentor from the institution and an academic supervisor from the university.

Prerequisite  
MCOM 388 AND MCOM 384

MCOM 490  
Strategic Commu. Capstone  
Credit Hours: 3  
This course allows the students to practically apply all PR and advertising theories and concepts through the design of public relations or advertising campaigns in the context of a graduation project. The course practically engages the students in the various stages of the campaign, and the choice of the suitable techniques, and the measurement and evaluation of campaign results.

Prerequisite  
MCOM 388 AND MCOM 384

MCOM 491  
Strategic Communication  
Credit Hours: 3  
This course defines strategic communication and provides a foundation for creating persuasive messages used in advertising and public relations. It offers challenges of organizational strategies and introduces models and plans to help organizations in reaching target audiences within the time and budget limits.

Prerequisite  
MCOM 388

MCOM 492  
Social Marketing  
Credit Hours: 3  
Social marketing is one of the fields that addresses social issues that threaten the quality of life with the objective of a positive behavioural change of its target audience in regards to these issues. The course provides the student with a different perspective in marketing which is social marketing. A lot of companies in their efforts to practice corporate social responsibility are turning to social marketing as a means of responding and helping in the needs of society or a community

Prerequisite  
MCOM 381

MCOM 493  
Public Opinion Research  
Credit Hours: 3  
This course aims to provide students with knowledge about public opinion history, theories, concepts and research methods. Through this course students will learn how public opinion affects social, political, cultural, and economic phenomena. This is a practical course where students will apply the research methods learned in analysing public opinion in a variety of contexts.

Prerequisite  
MCOM 381

MECH 213  
Engineering Measurements  
Credit Hours: 3 OR 2  
Introduction to techniques of engineering measurements. Data acquisition and processing systems. Calibration of instruments, response time, and error analysis. Measurements of basic physical quantities (for example force, stress, strain, temperature, viscosity, pressure, velocity, frequency). Carry out and design laboratory experiments.

Prerequisite  
MATH 101

MECH 221  
Thermoengineering  
Credit Hours: 3  

Prerequisite  
MATH 101

MECH 222  
Solid Mechanics  
Credit Hours: 3  

Prerequisite  
MGEN 200 OR MGEN 210

MECH 230  
Manufacturing Processes  
Credit Hours: 3  

Prerequisite  
MGEN 231

MECH 241  
Thermodynamics  
Credit Hours: 3  

Prerequisite  
MATH 101

MECH 321  
Mechanical Mechanisms  
Credit Hours: 3  

Prerequisite  
MGEN 222
MECH 322 Mechanical Vibrations
Credit Hours: 3
Prerequisite GENG 222 AND MATH 217

MECH 323 Mechanical Design I
Credit Hours: 3
Prerequisite MECH 223 AND MECH 230 AND GENG 111

MECH 331 Machining & Forming Process
Credit Hours: 3
Theory and applications of metal cutting; basic principles; significant features of current research. Chip formation mechanics, tool life and machinability, economics of metal removal, and precision engineering. Metal forming processes, include, casting, forging, sheet metal, rolling, extrusion, and welding. Carrying out laboratory experiments.
Prerequisite MECH 230 AND MECH 223

MECH 342 Thermodynamics
Credit Hours: 3
Prerequisite MECH 241

MECH 343 Fluid Mechanics
Credit Hours: 3
Prerequisite GENG 222

MECH 344 Heat Transfer
Credit Hours: 3
Prerequisite MATH 217 AND MECH 343 AND MECH 241

MECH 361 Control Systems
Credit Hours: 3
Prerequisite MECH 322

MECH 399 Practical Training
Credit Hours: 3
Students spend a period equivalent to eight weeks of practical training in an engineering organization. This course aims at providing the students with technical and practical skills as participating in engineering activities and performing assignments through training programs. The program is jointly specified by the department and industrial organizations.
Prerequisite GENG 107 AND MECH 441

MECH 421 Mechanical Design II
Credit Hours: 3
Prerequisite MECH 322 AND MECH 332

MECH 425 Finite Element Method
Credit Hours: 3
Prerequisite MECH 322

MECH 426 Computer Aided Des
Credit Hours: 3
Basic elements of CAD and relevance to current industrial practice. Input and output devices for geometric modeling of systems. Representation of curves and curved surfaces. Graphical programming languages, and development of interfaces for commercial CAD and 3D computer graphics programs. Numerical optimization and its application to parameter design.
Prerequisite MECH 323

MECH 427 Mechanics of Composite Mater
Credit Hours: 3
Analysis and applications of laminated and chopped fiber reinforced composites. Micro- and macro-mechanical analysis of elastic constants, failure and environmental degradation. Design project.
Prerequisite GENG 231 AND MECH 223

MECH 431 Failure Analysis
Credit Hours: 3
Prerequisite GENG 231 AND MECH 223

MECH 432 Welding & Casting Technologies
Credit Hours: 3
Prerequisite MECH 230

MECH 434 Mechanics of Composite Mater
Credit Hours: 3
Analysis and applications of laminated and chopped fiber reinforced composites. Micro- and macro-mechanical analysis of elastic constants, failure and environmental degradation. Design project.
Prerequisite GENG 231 AND MECH 223

MECH 427 Mechanics of Composite Mater
Credit Hours: 3
Analysis and applications of laminated and chopped fiber reinforced composites. Micro- and macro-mechanical analysis of elastic constants, failure and environmental degradation. Design project.
Prerequisite GENG 231 AND MECH 223

MECH 431 Failure Analysis
Credit Hours: 3
Prerequisite GENG 231 AND MECH 223

MECH 432 Welding & Casting Technologies
Credit Hours: 3
Prerequisite MECH 230
and flash cooling. Cooling load estimation. Refrigeration
Air and steam jet cooling. Thermoelectric refrigeration
heat exchangers, inter-coolers. Absorption refrigeration.
cascaded vapor-compression systems, liquid-to-suction
Basic refrigeration concepts, refrigerants. Multistage and
Refrigeration and AC
MECH 342 AND MECH 241
MECH 447
Heat Engines
Credit Hours: 3
Internal versus external combustion engines. Automotive
engines: Air standard cycles, fuels and combustion,
computation in spark ignition and compression ignition
engines, actual gas cycles, supercharging, knocking,
flow rate. Gas turbine engines: actual cycles, optimum
operation, application to turbo-fan, turbo-prop, and
turbojet engines. Non-conventional engines. Carrying out
laboratory experiments and Term Projects.
Prerequisite
MECH 342
MECH 448
Des of Energy Systems
Credit Hours: 3
Applications of thermo-fluids principles to design an
integrated energy system. Examples include power
generation, air conditioning, and industrial processes.
Students work in teams on projects incorporating
engineering standards, realistic constraints that may
include economic, environmental, ethical, social, political,
health and safety considerations. Term project.
Prerequisite
MECH 342 AND MECH 344
MECH 449
Selected Topics I
Credit Hours: 3
Selected topics that meet student interests and
reflects recent trends in one of the fields of mechanical
engineering.
Prerequisite
MECH 485
MECH 490
Senior Project I
Credit Hours: 1
Carry out analysis and design of a system in one of
the areas of mechanical engineering. Students follow
systematic design approach, apply project planning and
scheduling techniques, devise analytical, computational
and/or experimental solutions, and design and build their
own test-rig. Students attend technical seminars and learn
to interact with speakers and at the end of the semester;
they are required to present a seminar on the project
status, progress and future work.
MECH 483
Operations Management
Credit Hours: 3
Presents a broad conceptual framework for the operation
management and management of science. Topics
include: Decision Making, role of quantitative models.
Forecasting, production planning and control, inventory
materials management and inventory theory, Total Quality
Management.
Prerequisite
GENG 200
MECH 485
Engineering Management
Credit Hours: 3
Engineers as managers. Engineering management
heuristics. Total quality management: principles and
approaches, techniques and applications. Personnel
management, team working and creativity.
Communication

MECH 486 Quality Analysy and Ctrl
Credit Hours: 3

Prerequisite GENG 200

MECH 490 Senior Project II
Credit Hours: 3
Participating students continue the work on the topic selected in MECH490. Students are required to present their findings at the end of the project in the form of a seminar as well as a written formal report.

Prerequisite MECH 480

MECH 499 Independent Study
Credit Hours: 1 OR 3
Independent research of a topic not previously studied in other mechanical engineering courses. Offered under the supervision of a faculty member. A formal report is required.

MIST 201 Intro to Management Info Sys
Credit Hours: 3
This course provides students with the basic concepts of information systems as well as the use and management of current information technologies for business processes. Course emphasizes electronic commerce, information technology contribution to competitive advantage, and enterprise resource planning.

Prerequisite ( MAST 101 OR MAGT 112) AND ( COMP 002 OR IC3 Computing 2350 OR Computer Placement Test 2 060 OR CMP5 165 OR MATH 119)

MIST 301 Intro to Progm in Business
Credit Hours: 3
This course introduces the student to basic concepts of programming logic and design. Areas studied include the use of computers as a problem-solving tool, methodology for algorithm design, and for structured modular implementation.

Prerequisite MIST 201

MIST 302 Database Management Systems
Credit Hours: 3
This course covers concepts and methods in design, implementation, and maintenance of the database for a management information system. The course develops an understanding of database development including data modeling, normalization, and implementation in the relational model using SQL to develop an understanding of database administration, and to explore other database models including the object-oriented model.

Prerequisite MIST 201

MIST 303 Systems Analysis & Design
Credit Hours: 3
This course provides students with the foundation in systems analysis and design concepts, methodologies, techniques, and tools. Students will analyze system requirements, design software solutions, and adopt appropriate development approaches such as the object-oriented approaches, rapid application development (RAD), and joint application development (JAD).

Prerequisite MIST 201

MIST 304 Data Comm & Networking
Credit Hours: 3
This course introduces students to all aspects of current communication technologies. Topics include cabling, signaling, serial, wide and local area networks, network protocols and network operating systems, and mixture of equipment, including serial, Integrated Services Digital Network (ISDN), LAN servers, clients, analyzers and bridges/routers.

Prerequisite MIST 201

MTHL 220 Adolescent Development
Credit Hours: 1 OR 3
This course aims to supply the students with basic developmental principles and theories in different aspects of human development, and to help them identify the developmental features of the different developmental stages in general, and adolescence in particular. In addition, the course discusses some issues and problems related to adolescence in the local community and in the larger Arabian and Islamic culture.

MTHL 320 Health Psychology
Credit Hours: 2
This course addresses the concepts of health and illness from psychological, social, and biological aspects. This course examines the role of health behaviors in personal and public health care. The course also deals with individual differences in health by focusing on the role of personality and lifestyle or locus of control as psychological determinants for health. Among other topics that this course covers are: health concept and its relationship to psychological stress, psychology of chronic illnesses, and the application of health psychology in public health domains, health education, and prevention-health care.

NUTR 221 Nutric Food Sci & Nutrition
Credit Hours: 2
This course examines the impact of technology on the organization of banking institutions and its impact on market structures. The course emphasizes understanding of information technology on the control and supervision of financial institutions to gain competitive advantage.

Prerequisite MIST 201

MIST 405 Innovation with Info Tech
Credit Hours: 3
This course emphasizes the application of IT solutions to business problems, transformation of ideas or technologies into products or processes. The course develops technical expertise and business skills to manage risk and encourage innovation.

Prerequisite MIST 401

NUTR 319 Quantify Food Production & Equip
Credit Hours: 3
Principles of quantity food production and presentation, including stocks, sauces, soups, sandwiches, breakfast preparation, short order cooking, deep fat frying, grilling, meat cutting, vegetable and salad preparation, basic principles and techniques of baking; portion control, yield tests, recipe conversion and costing; principles of sanitation in quantity food production; principles underlying safe operation and cleaning of commercial food equipment.

Prerequisite NUTR 321

NUTR 320 Intro. to Diet. & Nutr Practice
Credit Hours: 3
This course introduces students to the profession of dietetics and provide overview of the many career directions and opportunities open to dietitians both within and out of the community.

Prerequisite NUTR 321

NUTR 321 Food Chemistry
Credit Hours: 3
This course is designed to enable the students achieving a good knowledge about the biodiversity and principles of classification of living organisms which started from the most microscopic (micro) organisms like Bacteria and Protozoa passing through Algae and Fungi up to Plants and Animals. The course covers the biological interactions...
between living organisms including the beneficial relations like symbiosis up to the most harmful one such as parasitism.

Prerequisite
CHEM 351

NUTR 323 Food Microbiology
Credit Hours: 3

Prerequisite
BIOL 101

NUTR 329 Nutrition Education and Comm
Credit Hours: 2
Principles of nutrition communication and education theories applied to individual and group patient education will be addressed. This course aimed at improving students' interviewing skills and counseling techniques. The course will discuss the different educational programs that are focused on the improvement of nutritional knowledge, status through increasing positive health behavior.

Prerequisite
NUTR 338 OR NUTR 334

NUTR 335 Nutritional Metabolism I
Credit Hours: 2

Prerequisite
CHEM 351 AND CHEM 352

NUTR 336 Nutritional Metabolism II
Credit Hours: 2
Mechanisms of action, metabolism and interaction with other nutrients of water and lipid soluble vitamins, macro-minerals, trace elements and ultra-trace elements.

Prerequisite
NUTR 231 OR NUTR 331

NUTR 338 Nut. through the Life Span
Credit Hours: 3
This course is designed to provide students with a view of the life cycle as a whole, with each life cycle stage supported by the nutrition that is essential for a good development. Nutritional needs are presented on the basis of both physical and psychosocial, development.

Prerequisite
NUTR 231

NUTR 340 Assess of Nutritional Status
Credit Hours: 3
Practical techniques in evaluation of nutritional status for individuals and groups. Anthropometrics measurements and their reference values. Biochemical indicators of deficiencies, excesses and storage of nutrients in the human body, and their reference values. Evaluation methods of dietary intakes and consumption. Modern techniques for body composition measurements (BIA, DXA, CT, MRI, NAA) will be covered.

Prerequisite
NUTR 231

NUTR 349 Meal Planning and Evaluation
Credit Hours: 2
This course aims to introduce the nutritional value and the characteristics of food groups, principles and guidelines for diet-planning, diet-planning guides with emphasis on food group plans and exchange lists, and approaches of applying diet-planning guides in meals planning and methods of meals evaluation.

Prerequisite
NUTR 231

NUTR 441 Food Safety & Qlty Control
Credit Hours: 3
This course will provide comprehensive information on food safety; food contamination i.e. microbial, chemical, plant and animal adulterants and radioactive materials. Routes of contamination of major food groups, analysis and control. Fields and concepts of the quality systems of foods. Risk analysis and management of the food chain. Sensory properties of foods and statistical means of quality control. Food standards and regulations. National and international agencies related to food control.

Prerequisite
NUTR 321

NUTR 442 Mgmt of Food Serv Operations I
Credit Hours: 2
The course purpose is to introduce management theories and principles, and the effective use of resources in the design and administration of food service facilities. Design of floor plans and equipment selection for various institutional food service operations are included. Consideration is given to operating environmentally safe and efficient facilities with emphasis on sanitation and safety. Administrative and leadership responsibilities of the food service manager are emphasized.

Prerequisite
NUTR 319 OR NUTR 322

NUTR 443 Mgmt of Food Serv Op II
Credit Hours: 2
The application of principles of management as they relate to the administration of human, physical and financial resources of food and nutrition services. In addition, emphasis is placed on food costing, labor issues, diversity, marketing, accounting, and budgeting for institutional food services.

Prerequisite
NUTR 442 OR NUTR 325

NUTR 450 Medical Nutrition Therapy I
Credit Hours: 3
This is the second course in medical nutrition therapy; following Medical Nutrition Therapy I. The course introduces students to the etiology of nutrition related diseases of the digestive system. Liver and pancreas, renal system, oncology and metabolic stress and eating disorders. The disease process, related biochemical issues, nutritional assessment, medical nutrition therapy and food and fluid issues are discussed in details for each disease. Enteral and parenteral nutrition support are also covered in this course.

Prerequisite
NUTR 450 OR NUTR 361

NUTR 453 Medical Nutrition Lab II
Credit Hours: 1
This course deals with diseases covered by the course medical nutrition therapy 2 (NUTR451) and should be taken concurrently. Sessions include self-study modules, tutorials, case studies and simulated clinical set ups.

Prerequisite
NUTR 450

NUTR 454 Medical Nutrition Laboratory I
Credit Hours: 1
This course deals with diseases covered by the course medical nutrition therapy 1 (NUTR351) and should be taken concurrently. Sessions include self-study modules, tutorials, case studies and simulated clinical set ups.

Prerequisite
(NUTR 340 OR NUTR 433) AND NUTR 439

NUTR 456 Prof. Iss. in Diet.& Nutrition
Credit Hours: 1
This course covers professional issues and trends affecting dietetics and nutrition practice, planning for professional advancement and conduct "Code of Ethics for Dietetic Practice".

Prerequisite
NUTR 433 OR NUTR 340
NUTR 457 Public Health Nutrition
Prerequisite: Credit Hours: 3

Prerequisite

NUTR 453 OR NUTR 340

NUTR 490 Capstone Course
Credit Hours: 3
The students are directed to undertake a clinical or community project in a specific subject under supervision of a staff member. The course is intended to reflect different skills and competencies acquired by the student in different courses.

Prerequisite
(NUTR 450 OR NUTR 351) AND NUTR 492

NUTR 491 Nutrition Seminar
Credit Hours: 1
Students will be required to present a seminar in selected topics in human nutrition and dietetics. Topics will be selected in areas that are currently under active research. Presented by students, faculty and invited speakers.

Prerequisite
(NUTR 450 OR NUTR 351) AND NUTR 492

NUTR 492 Res Meth in Nutrition
Credit Hours: 3
Students learn research methods used in nutrition and dietetics research. The course cover study designs e.g. cross-sectional, prospective, controlled studies and clinical trials. The course builds upon students’ basic knowledge of statistics to introduce them to the statistical methods used in these studies.

Prerequisite
(NUTR 433 OR NUTR 340)

NUTR 494 Supervised Dietetic Practice I
Credit Hours: 10
Students spend 15 weeks of a total of 30 weeks of supervised dietetic practice (dietetic internship). The program provides interdisciplinary practice that will prepare dietetic interns to attain entry-level competencies in nutrition therapy, food service systems management, and public health nutrition. Students will conduct training during two semesters, rotating through various clinical, public health and foodservice departments. Interns will be required to demonstrate proficiency in a defined set of competencies.

Prerequisite
NUTR 490

NUTR 495 Supervised Dietetic Practice II
Credit Hours: 20
Students must spend 15 weeks of a total of 30 weeks of supervised dietetic practice (dietetic internship). The program provides interdisciplinary practice that will prepare dietetic interns to attain entry-level competencies in nutrition therapy, food service systems management, and public health nutrition. Students will conduct training during two semesters, rotating through various clinical, public health and foodservice departments. Interns will be required to demonstrate proficiency in a defined set of competencies.

Prerequisite
NUTR 494

PHAR 200 Medicinal Chemistry I
Credit Hours: 2
Medicinal Chemistry I (PHAR200) is the first of a series of microbial and biochemical courses. The course has been designed to introduce first year students to concepts required to understand drugs as organic molecules whose biochemical actions are derived from and usually directed by their chemical structures and physico-chemical properties. This will be achieved by first reviewing fundamental principles in organic chemistry, which will subsequently allow students to make clear connections between physical organic and biochemical chemistry, and ultimately the general principles of medicinal chemistry (such as ADME principles, drug metabolism and structure-activity relationships). The course also includes a brief overview of the pharmaceutical industry, drug design and development, and those regulatory factors and agencies associated with drug development.

PHAR 201 Medicinal Chemistry II
Credit Hours: 2
Medicinal Chemistry II (PHAR201) is the second of a series of two medicinal chemistry courses. The course has been designed to introduce applications on what had been covered in PHAR200. Students will use their understanding of concepts such as drug receptor interactions, physicochemical properties, ADME, drug metabolism, and structure activity relationship on different classes of drugs. The course will cover in details drug groups that are used to treat different diseases focus including, but not limited to, epilepsy, schizophrenia, Parkinson disease, depression, allergies, ulcers, diabetes, hypertension, pain, influenza, AIDS and cancer. For each drug class, students will learn the mechanism of action, detailed SAR, side effects, drug-drug interaction (if applicable) and drug metabolism. Students will advise to use a computerized chemistry drawing (Symyx draw) as a learning tools to facilitate the drawing and the understanding of chemical structures.

Prerequisite
PHAR 200

PHAR 210 Pharmaceutics I
Credit Hours: 3
Pharmaceutics I (PHAR210) is the first of a series of four (PHAR210, PHAR310, PHAR311, PHAR410) pharmaceutics courses. This course focuses on physical pharmacy and it is the research area of pharmacy that applies theoretical principles and practical research methods of science to the research on pharmaceutical phenomena and to the practice of pharmacy. Aim of the course Pharmaceutics I is to provide an insight into a number of physicochemical basics and to explain these with a pharmaceutical point of view. The course broadens the knowledge offered in general organic chemistry and physics courses and provides the required knowledge and foundation necessary for future courses that focus on pharmaceutical dosage forms, pharmacoanomics and bio-pharmaceutics which build upon and critically rely on Pharmaceutics I.

PHAR 220 Found Pharmaco & Pharmacoth I
Credit Hours: 1
Foundations of Pharmacology and Therapeutics I (PHAR220) is a continuation of Foundations of Pharmacology and Therapeutics I (PHAR220). It is designed to provide first year students with an introduction to general pharmacologic and therapeutic principles and concepts, and provide a broad overview of the pharmacological and therapeutic properties of select common drugs. The course provides students with a fundamental vocabulary and background for future courses in the program. This course follows PHAR230 is designed to continue with the development of competence in the practice of pharmacy.

PHAR 230 Pharmacy & Health Care I
Credit Hours: 2
Pharmacy and Health Care I (PHAR230) is the first of a series of two pharmacy and health care courses. The course is designed to introduce first year students to the role of the pharmacist within the health care system. Pharmacy and Health Care I is a survey course in the sense that it will sample from a broad range of related topics designed to inform students of current trends and challenges in pharmacy practice and health care. Pharmacy and Health Care I intends to be a launching point for specialized education and is designed to begin development of competence in the practice of pharmacy.

PHAR 231 Pharmacy & Health Care II
Credit Hours: 2
Pharmacy and Health Care II (PHAR231) is the second in a series of two pharmacy and health care courses. The course follows PHAR230 is designed to continue with the introduction of the first year students to the role of the pharmacist within the health care system. PHAR231 is also a survey course in that it continues to sample from a broad range of current trends and challenges in pharmacy practice and health care.
Prerequisite PHAR 230

PHAR 240 Professional Skills I
Credit Hours: 2
Professional Skills I (PHAR240) is the first of a series of six (PHAR240, PHAR241, PHAR340, PHAR341, PHAR440, PHAR441) pharmacy professional skills courses. PHAR240 is an introduction to the prescribing process, medication dispensing practice, drug information, patient care, and the language and terminology of medicine. This course is also an introduction to interpersonal communication theory and provides a foundation for the development of the skills needed to interact with patients, families, and other healthcare professionals.

PHAR 241 Professional Skills II
Credit Hours: 2
Professional Skills II (PHAR241) continues and expands on the therapeutic subject matter presented in Professional Skills I (PHAR240). PHAR241 covers drug information accessing, evaluating, and provision, dispensing specific drug formulations, pharmacological calculations, health promotion, and health outcomes. This course also serves as an introduction to interpersonal communication theory and provides a foundation for the development of the skills needed to interact with patients, families, and other healthcare professionals. All workshops, case-based learning and assignments will encourage the utilization of adequate communication skills and the language and terminology of medicine.

Prerequisite PHAR 240

PHAR 250 Microbiology for Pharmacy
Credit Hours: 2
Microbiology for Pharmacy (PHAR250) is designed to be a general microbiology course which includes the discussion of: bacterial structures and physiology; bacterial, fungal, viral and prion infections; the host response to infection by innate and acquired immune responses; and the control of infectious agents by drug therapy and vaccination.

PHAR 305 Pharmacy Research, Evaluation and Presentation Skills I (PHAR305)
Credit Hours: 1
Pharmacy Research, Evaluation and Presentation Skills I (PHAR305) is the first of six (PHAR305, PHAR 306, PHAR405, PHAR406, PHAR505, PHAR508) courses designed to introduce the students to the detailed aspects of optimizing research design for clinical and basic research. The material presented builds on the content covered in previous non-pharmacy statistics and research design courses. Design strategies for varying types of health care-related research, as well as skills for critical evaluation of research studies and literature will be a primary focus. In addition, oral presentation and debating skills will be developed.

PHAR 306 Pharmacy Research, Evaluation and Presentation Skills II (PHAR306)
Credit Hours: 1
Pharmacy Research, Evaluation and Presentation Skills II (PHAR306) is the second of six (PHAR305, PHAR306, PHAR405, PHAR406, PHAR505, PHAR508) courses designed to introduce the students to the details of optimizing research design for clinical and basic research. The material presented builds on the content covered in previous non-pharmacy statistics and research design courses. Design strategies for varying types of health care-related research, as well as skills for critical evaluation of research studies and literature are a primary focus. In addition, skills for research findings dissemination through oral presentation and poster writing will be developed.

PHAR 310 Pharmacokinetics II
Credit Hours: 2
Pharmacokinetics II (PHAR310) is the second of a series of four (PHAR310, PHAR311, PHAR312, PHAR410) pharmacokinetics courses and is designed to provide pharmacy students with an understanding of the science of formulation and dispensing of solid, semisolid and gaseous dosage forms and their delivery systems. In particular, this course will cover in depth knowledge regarding tablets, capsules, ointments, creams, suppositories and inhalers. The composition, preparation, performance (both in vitro and in vivo) of the implications and relationship with patient-centered care in relation to solid, semisolid and gaseous dosage forms are also discussed. The lab component of this course will cover the study of contemporary compound formulations that will train the student on the preparation, use, and evaluation of tablets, lozenges, capsules, ointments, creams and suppositories.

Prerequisite PHAR 310

PHAR 316 Pharmaceutics I
Credit Hours: 1
Pharmaceutics I is designed to introduce the student to basic principles of pharmacokinetics, including the absorption, distribution, metabolism and elimination of drugs and metabolites in the human body, drug transport, parenteral and enteral routes of drug administration, and factors effecting these processes. Mathematical pharmacokinetic models and drug delivery processes are also studied.

PHAR 317 Pharmaceutics II
Credit Hours: 2
Pharmaceutics II is designed to assist the pharmacy student to understand the fundamental processes of the pharmacokinetic processes and to assist the student in using these concepts for the purposes of optimizing research design for clinical and basic research. The material presented builds on the content taught in the balance of integrated pharmacology courses and is designed to provide an understanding of how drugs exert their effects on living systems. The course is integrated with the pathophysiology and pharmacokinetics courses series and is delivered in a disease-based approach. Drug classes and representative drugs, chemical structures, mechanism(s) of action, pharmacokinetic characteristics, toxicity profiles and related pharmacological issues. These topics will complement content taught in the balance of integrated courses. Students will become familiar with common abbreviations and vocabulary terms related to drug therapy.

Prerequisite PHAR 306

PHAR 321 Pharmacology I
Credit Hours: 2
Pharmacology I (PHAR321) is the second of a series of four (PHAR320, PHAR321, PHAR420, PHAR421) pharmacology courses and is designed to provide an understanding of how drugs exert their effects on living systems. The course is integrated with the pathophysiology and pharmacokinetics courses series and is delivered in a disease-based approach. Drug classes and representative drugs, chemical structures, mechanism(s) of action, pharmacokinetic characteristics, toxicity profiles and related pharmacological issues. These topics will complement content taught in the balance of integrated courses. Students will become familiar with common abbreviations and vocabulary terms related to drug therapy.

Prerequisite PHAR 320

PHAR 330 Struct Practical Exp in Pharm I
Credit Hours: 4
Struct Practical Exp in Pharm I (PHAR330) is one of a series of six (PHAR330, PHAR340, PHAR350, PHAR531, PHAR532, PHAR533) courses designed to provide students with an understanding of how drugs exert their effects on living systems. This course is integrated with the pathophysiology and pharmacokinetics courses series and is delivered in a disease-based approach. Drug classes and representative agents are covered in the context of the systems and diseases discussed. For this course, this will include a review of basic concepts and drug classes used for neurologic, psychiatric, eyes, ears, nose and throat, respiratory, gastrointestinal and urologic disorders. For each therapeutic drug classification, topics to be covered include representative drugs, chemical structures, mechanism(s) of action, pharmacokinetic characteristics, toxicity profiles and related pharmacological issues. These topics will complement content taught in the balance of integrated courses. Students will also become familiar with common abbreviations and vocabulary terms related to drug therapy.
opportunities will occur in select hospital, community and clinic-based pharmacy practice sites and are structured around a number of formalized activities, each designed to lead to the attainment of specific learning objectives. Select pharmacy practitioners will serve as mentors, role models, trainers and assessors of student learning.

PHAR 340 Professional Skills III
Credit Hours: 2
Pharmacy Professional Skills III (PHAR340) is the third of a series of six (PHAR240, PHAR241, PHAR340, PHAR440, PHAR441) courses. PHAR340 continues with the development of knowledge and skills related to pharmaceutical care, medication prescribing and dispensing processes, and drug information resource retrieval and application in pharmacy practice. This course continues exercising interpersonal communication and development of the skills needed to interact with patients, families and other health care professionals.

Prerequisite
PHAR 241

PHAR 341 Professional Skills IV
Credit Hours: 2
Pharmacy Professional Skills IV (PHAR341) is the fourth of a series of six (PHAR240, PHAR241, PHAR340, PHAR440, PHAR441) courses. PHAR341 continues with the development of knowledge and skills related to medication prescribing and dispensing processes, and drug information resource retrieval and application in pharmacy practice. This course continues exercising interpersonal communication and development of the skills needed to interact with patients, families and other health care professionals.

Prerequisite
PHAR 340

PHAR 350 Pharmacy Ethics and Law
Credit Hours: 1
Pharmacy Ethics and Law (PHAR350) is a course that focuses on legal, cultural, and ethical aspects of pharmacy practice and research. The course is designed to build on concepts introduced in previous courses and is intended to provide students with a more in-depth understanding of the related issues in both a local and international environment.

PHAR 359 Interpretation of Lab Data I
Credit Hours: 1
Interpretation of Lab Data I (PHAR359) is designed to focus on the clinical interpretation of the various tests performed in clinical chemistry, hematology, microbiology and imaging (e.g. x-ray, ultrasound). The course will focus on the physiological basis for the test, the basic principles and procedures for the test, and the clinical significance of the test results, including quality control and normal values. The course is integrated with the physical assessment course and is delivered in an anatomical system-based approach to health management. The systems that will be covered include the nervous system, head and neck systems, gastrointestinal system, cardiovascular system, peripheral vascular system, musculoskeletal and the dermatologic systems.

PHAR 360 Interpretation of Lab Data II
Credit Hours: 1
Interpretation of Lab Data II (PHAR360) is designed to focus on the clinical interpretation of the various tests performed in clinical chemistry, hematology, microbiology and radiology. The course will focus on the physiological basis for the test, the basic principles and procedures for the test, and the clinical significance of the test results, including quality control and normal values. The course is integrated with the physical assessment course, and is delivered in an anatomical system-based approach to health management. The systems that will be covered include the nervous system, head and neck systems, gastrointestinal system, cardiovascular system, peripheral vascular system, musculoskeletal and the dermatologic systems.

PHAR 361 Patient Assessment Lab I
Credit Hours: 1
Patient Assessment Laboratory I (PHAR361) is designed to introduce the pharmacy students to the various techniques and tools necessary to conduct physical examinations and to monitor changes caused by common disease states and drug therapy. In addition this course helps the students in interpreting physical findings and evaluating patient information in order to make appropriate decisions regarding the health of the patient, and his or her drug therapy needs and problems and to intervene in order to resolve the identified drug-related problems and to ensure outcomes of drug therapy are met. This course will be delivered in an anatomical system-based approach to health management. The systems that will be covered include the nervous system, head and neck systems, respiratory system, gastrointestinal system, genitourinary system, cardiovascular system, peripheral vascular system, musculoskeletal and the dermatologic systems.

PHAR 362 Patient Assessment Lab II
Credit Hours: 1
Patient Assessment Laboratory II (PHAR362) is designed to introduce the pharmacy students to the various techniques and tools necessary to conduct physical examinations and to monitor changes caused by common disease states and drug therapy. In addition, this course helps the students in interpreting physical findings and evaluating patient information in order to make appropriate decisions regarding the health of the patient, and his or her drug therapy needs and problems and to intervene in order to resolve the identified drug-related problems and to ensure outcomes of drug therapy are met. This course will be delivered in an anatomical system-based approach to health management. The systems that will be covered include the nervous system, head and neck systems, respiratory system, gastrointestinal system, genitourinary system, cardiovascular system, peripheral vascular system, musculoskeletal and the dermatologic systems.

PHAR 370 Pathophysiology I
Credit Hours: 1
Pathophysiology I (PHAR370) describes the incidence, etiology and clinical manifestations of local and systemic body responses which reflect adaption and course of a disease state. PHAR370 is the first course in a series of courses in pharmacology and pharmacy and is delivered in an anatomical system-based approach to health management. The systems that will be covered include the nervous system, head and neck systems, respiratory system and the gastrointestinal system.

PHAR 371 Pathophysiology II
Credit Hours: 1
Pathophysiology II (PHAR371) describes the incidence, etiology and clinical manifestations of local and systemic body responses which reflect adaption and course of a disease process. PHAR371 is integrated with the courses in pharmacology and pharmacy and is delivered in an anatomical system-based approach to health management. The systems that will be covered include the nervous system, head and neck systems, respiratory system, gastrointestinal system, genitourinary system, cardiovascular system, peripheral vascular system, musculoskeletal and the dermatologic systems.

PHAR 380 Pharmacotherapy I
Credit Hours: 3
Pharmacotherapy I (PHAR380) is the first of a series of four (PHAR380, PHAR381, PHAR480, PHAR481) courses dealing with drug therapy and therapeutics. The course is integrated with the pathophysiology and pharmacology course series and is delivered in a disease-based approach to health management. For this course, this will include a review of the therapeutics for cardiovascular, renal, dermatologic, bone and joint diseases. For this system, topics to be covered include epidemiology and etiology, clinical presentation, investigations, diagnosis, goals of therapy, therapeutic choices, treatment algorithms (including clinical practice guidelines), dosing and pharmacoeconomic considerations. Students will also become familiar with relevant patient management issues. These topics will complement content taught in the balanced integration of courses.

Prerequisite
PHAR 221

PHAR 381 Pharmacotherapy II
Credit Hours: 3
Pharmacotherapy II (PHAR381) is the second of a series of four (PHAR380, PHAR381, PHAR480, PHAR481) courses dealing with drug-based therapeutics. The course is integrated with the pathophysiology and pharmacology course series and is delivered in a disease-based approach to health management. For this course, this will include a review of the therapeutics for cardiovascular, renal, dermatologic, bone and joint diseases. For this system, topics to be covered include epidemiology and etiology, clinical presentation, investigations, diagnosis, goals of therapy, therapeutic choices, treatment algorithms (including clinical practice guidelines), dosing and pharmacoeconomic considerations. Students will also become familiar with relevant patient management issues. These topics will complement content taught in the balanced integration of courses.

PHAR 380 Pharmacotherapy I
Credit Hours: 3
Pharmacotherapy I (PHAR380) is the first of a series of four (PHAR380, PHAR381, PHAR480, PHAR481) courses dealing with drug therapy and therapeutics. The course is integrated with the pathophysiology and pharmacology course series and is delivered in a disease-based approach to health management. For this course, this will include a review of the therapeutics for cardiovascular, renal, dermatologic, bone and joint diseases. For this system, topics to be covered include epidemiology and etiology, clinical presentation, investigations, diagnosis, goals of therapy, therapeutic choices, treatment algorithms (including clinical practice guidelines), dosing and pharmacoeconomic considerations. Students will also become familiar with relevant patient management issues. These topics will complement content taught in the balanced integration of courses.

PHAR 380 Pharmacotherapy I
Credit Hours: 3
Pharmacotherapy I (PHAR380) is the first of a series of four (PHAR380, PHAR381, PHAR480, PHAR481) courses dealing with drug therapy and therapeutics. The course is integrated with the pathophysiology and pharmacology course series and is delivered in a disease-based approach to health management. For this course, this will include a review of the therapeutics for cardiovascular, renal, dermatologic, bone and joint diseases. For this system, topics to be covered include epidemiology and etiology, clinical presentation, investigations, diagnosis, goals of therapy, therapeutic choices, treatment algorithms (including clinical practice guidelines), dosing and pharmacoeconomic considerations. Students will also become familiar with relevant patient management issues. These topics will complement content taught in the balanced integration of courses.
For this course, emphasis will be on the comprehensive delivery of pharmaceutical care to patients with psychiatric, neurologic, respiratory, and pain disorders and will apply knowledge gained in the balance of integrated courses. Patient and disease management will occur in the context of a virtual health care environment.

**PHAR 390** Pharmacy Research, Evaluation and Presentation Skills III (PREP skills III) Credit Hours: 2
Pharmacy Research, Evaluation and Presentation Skills III (PHAR390) is third of six (PHAR305, PHAR306, PHAR390, PHAR490, PHAR491, PHAR590) courses and involves case studies and other activities aimed at integrating scientific and clinical concepts from across all courses in a problem-based learning environment. Patient case complexity increases across the sequentially delivered courses. For this course, emphasis will be on the comprehensive delivery of pharmaceutical care to patients with cardiovascular, renal, dermatologic, bone and joint disorders, and the development of the content in the balance of integrated courses. Patient and disease management will occur in the context of a virtual health care environment.

**Prerequisite** PHAR 390

**PHAR 405** Pharmacy Research, Evaluation and Presentation Skills IV (PREP skills IV) Credit Hours: 2
Pharmacy Research, Evaluation and Presentation Skills IV (PHAR405) is fourth of six (PHAR305, PHAR306, PHAR405, PHAR406, PHAR505, PHAR506) courses designed to introduce the students to the detailed aspects of research design for clinical and basic research. The material presented builds on the content covered in previous non-pharmacy statistics and research design courses. Design strategies for varying types of health care-related research, as well as skills for critical evaluation of research studies and literature will be a primary focus. In addition, oral presentation and debating skills will be developed.

**Prerequisite** PHAR 405

**PHAR 410** Pharmacometrics IV Credit Hours: 2
Pharmacometrics IV (PHAR410) is the fourth of a series of four (PHAR210, PHAR310, PHAR311, PHAR410) pharmacometrics courses and is designed to introduce pharmacology students to the basic principles governing the applications of radio-pharmacy in medical diagnosis and therapy. The status and application of current biotechnology-based pharmaceuticals and biotechnology related matters will be addressed. Additionally, the different techniques utilized in the analysis of pharmaceutical products will be introduced.

**Prerequisite** PHAR 311

**PHAR 415** Toxicology Credit Hours: 2
Toxicology (PHAR415) is an introductory toxicology course for pharmacy students. It is designed to provide a basic understanding of toxicology as it pertains to drugs and common toxins and toxics likely to be encountered in pharmacy practice. Topics to be covered will include principles of toxicology, selected potential toxins and toxicants, signs, symptoms and mechanisms of toxicity; the outcomes of exposure to toxic levels of therapeutic agent(s), drugs of abuse and common toxins and toxics, and the use of antidotes when available and their mechanisms of toxicity. The course will continue with the development of knowledge and skills related to pharmaceutical care, medication prescribing and dispensing processes, and drug information. These topics will complement content taught in the balance of integrated courses. Students will also become familiar with common abbreviations and vocabulary terms related to drug therapy.

**Prerequisite** PHAR 315

**PHAR 420** Pharmacology III Credit Hours: 2
Pharmacology III (PHAR420) is the third of a series of four (PHAR230, PHAR321, PHAR420, PHAR421) pharmacology courses designed to provide an understanding of how drugs exert their effects on living systems. The course is integrated with the pathophysiology and therapeutics course series and is delivered in a disease-based approach. Drug classes and representative agents will be covered in the context of the systems and diseases discussed. For this course, this will include a review of drug classes used for treating cancer (including anti-emetics), leukemias, anemias, immunosuppressants, endocrine-metabolic disorders including diabetes, obesity, osteoporosis, thyroid disorders and hypothyroidism, pituitary and adrenal disorders. For each therapeutic drug class, topics to be covered will include representative drugs, chemical structures, mechanism(s) of action, pharmacokinetic characteristics, toxicity profiles and related pharmacological issues. These topics will complement content taught in the balance of integrated courses. Students will also become familiar with common abbreviations and vocabulary terms related to drug therapy.

**Prerequisite** PHAR 420

**PHAR 425** Pharmacoy Alt-Comp Treatments Credit Hours: 2
Pharmacoy Alt-Comp Treatments (PHAR425) is designed to introduce students in their third professional year to phytopharmaceuticals, utilizing an evidence-based approach. The course will build on previous knowledge in organic and medicinal chemistry, as well as pharmacology and pharmacotherapy. The focus is on herbs with proven clinical efficacy and discussions will include plant name, part used, adverse effects, contraindications, potential drug interactions, dose, mechanism of action and clinical evidence. A comparison between herbal preparations and other drugs in the management of specific conditions will be included to stimulate rational and evidence based approaches to therapeutic recommendations.

**PHAR 430** Structual Practical Exp in Pharmil Credit Hours: 4
Pharmacology IV (PHAR421) is the fourth of a series of four (PHAR230, PHAR330, PHAR430, PHAR530) courses designed to provide students with a variety of practice-based opportunities that apply the knowledge and skills gained through pharmacy practice learning. These opportunities will occur in select hospital, community and clinic-based pharmacy practice sites and are structured around a number of formalized activities, each designed to lead to the attainment of specific learning objectives. Select pharmacy practitioners will serve as mentors, role models, trainers and assessors of student learning.

**Prerequisite** PHAR 330

**PHAR 440** Professional Skills V Credit Hours: 2
Pharmacy Professional Skills V (PHAR440) is the fifth of a series of six (PHAR330, PHAR430, PHAR440, PHAR441, PHAR532) courses designed to provide students with opportunities to develop the knowledge and skills related to pharmaceutical care, medication prescribing and dispensing processes, and drug information. Resource retrieval and application in pharmacy practice. This course continues with the development of knowledge and skills related to pharmaceutical care, medication prescribing and dispensing processes, and drug information. These courses are designed to lead to the attainment of specific learning objectives. Select pharmacy practitioners will serve as mentors, role models, trainers and assessors of student learning.

**Prerequisite** PHAR 341

**PHAR 441** Professional Skills VI Credit Hours: 2
Pharmacy Professional Skills VI (PHAR441) is the final course in the series of six (PHAR240, PHAR241,
PHAR340, PHAR434, PHAR440, PHAR441) courses. PHAR441 continues with the development of knowledge and skills in pharmaceutical care, medication prescribing and dispensing processes, and drug information resource retrieval and application in pharmacy practice. This course continues exercising interpersonal communication and development of the skills needed to interact with patients, families and other health care professionals.

**Prerequisite**
PHAR 440

**PHAR 445 Rx Elective I Credit Hours: 2**
Pharmacy Elective I (PHAR445) is the first in a series of three successive elective courses for P-3 and P-4 students. PHAR 445 is delivered as a two-part course which provides the students with an opportunity to enhance their knowledge of research skills. The first component of PHAR445 involves the required attendance and participation at the biweekly Faculty Research Seminar. The second component is a research opportunity for students, wherein they work in a 2:1 relationship with a full-time faculty member on an assigned directed studies project. The goal of this course is to provide an opportunity for students to further advance their understanding of selected pharmacy topics and to further enhance their research skills. Projects will be variable in focus, with clearly defined and achievable research objectives, study design and activities. Projects will be pre-approved by course coordinators, completed within one semester and will not require external funding. These projects will enhance the students understanding of topics or issues addressed within didactic courses and/or complement the existing curricular content. The activities undertaken by the students will provide them with hands on experience with the conduct of a research project including database design, data management, analysis and interpretation.

**PHAR 446 Rx Elective II Credit Hours: 3**
Pharmacy Elective II (PHAR446) is the second in a series of three successive elective courses for P-3 and P-4 students. PHAR 446 is delivered as a three-part course which provides the students with an opportunity to enhance their knowledge of the various healthcare settings in which they may ultimately work. The specific goal of the course is to further improve the students understanding of the development, organization, components and characteristics of contemporary health care systems. This will be undertaken through a detailed exploration of the variables that must be considered when implementing optimal pharmacy services in a hospital and community environment.

**PHAR 470 Pathophysiology III Credit Hours: 1**
Pathophysiology III (PHAR470) describes the incidence, etiology and clinical manifestations of local and systemic body responses which reflect adaptation and course of disease processes. PHAR470 is integrated with the courses in pharmacology and pharmacotherapy and is delivered in anatomical system-based approach to health management. The systems that will covered include the metabolic, endocrine, hematological-immune and reproductive systems. The basic cellular mechanisms in tumor formation and common oncological diseases will also be covered.

**Prerequisite**
PHAR 371

**PHAR 471 Pathophysiology IV Credit Hours: 1**
Pathophysiology IV (PHAR471) describes the incidence, etiology and clinical manifestations of local and systemic body responses which reflect adaptation and course of a disease process. PHAR471 is integrated with the courses in pharmacology and pharmacotherapy and is delivered in anatomical system-based approach to health management. The topics that will be covered include diseases to the female reproductive system and local and systemic infectious diseases.

**PHAR 480 Pharmacotherapy III Credit Hours: 3**
Pharmacotherapy III (PHAR480) is the third of four (PHAR380, PHAR381, PHAR480, PHAR481) courses dealing with drug-based therapeutics. The course is integrated with the pathophysiology and pharmacology course series and is delivered in a disease-based approach to health management. For this course, this will include a review of the therapeutics for oncologic/haematologic, immunologic, and endocrinologic disorders. For each system, topics to be covered include epidemiology and etiology, clinical presentation, investigations, diagnosis, goals of therapy, therapeutic choices, treatment algorithms (including clinical practice guidelines), dosing and pharmacoeconomic considerations. Students will also become familiar with relevant patient management issues. These topics will complement content taught in the balance of integrated courses.

**Prerequisite**
PHAR 381

**PHAR 481 Pharmacotherapy IV Credit Hours: 3**
Pharmacotherapy IV (PHAR481) is the fourth of a series of four (PHAR380, PHAR381, PHAR480, PHAR481) courses dealing with drug-based therapeutics. The course is integrated with the pathophysiology and pharmacology course series and is delivered in a disease-based approach to health management. For this course, this will include a review of the therapeutics for obstetric and gynecologic disorders and infectious diseases. For each system, topics to be covered include epidemiology and etiology, clinical presentation, investigations, diagnosis, goals of therapy, therapeutic choices, treatment algorithms (including clinical practice guidelines), dosing and pharmacoeconomic considerations. Students will also become familiar with relevant patient management issues. These topics will complement content taught in the balance of integrated courses.

**Prerequisite**
PHAR 480

**PHAR 485 Pediatrics-Geriatrics Credit Hours: 1**
Pediatrics-Geriatrics is a course designed to introduce pharmacy students to general considerations pertaining to two special patient populations. The course is designed to complement and expand on content previously introduced in other courses. Topics covered include medical and drug-related issues that affect early and late age groups, including the pharmacological aspects of pediatric development and the aging process. Challenges in the delivery of pharmaceutical care to these groups will be discussed.

**PHAR 490 Integ Case-Based Learning III Credit Hours: 2**
Integ Case-Based Learning III (PHAR490) is the third in a series of five (PHAR390, PHAR391, PHAR490, PHAR491, PHAR590) courses and involves case studies and other activities aimed at integrating scientific and clinical concepts from across all courses in a problem-based learning environment. Patient case complexity increases across the sequentially delivered courses. For this course, emphasis will be placed on the comprehensive delivery of pharmaceutical care to patients with cardiovascular, renal, dermatologic, bone and joint disorders. These topics will complement content taught in the balance of integrated courses. Patient and disease management will occur in the context of a virtual health care environment.

**Prerequisite**
PHAR 391

**PHAR 491 Integ Case-Based Learning IV Credit Hours: 2**
Integ Case-Based Learning IV (PHAR491) is the fourth in a series of five (PHAR390, PHAR391, PHAR490, PHAR491, PHAR590) courses and involves case studies and other activities aimed at integrating scientific and clinical concepts from across all courses in a problem-based learning environment. Patient case complexity increases across the sequentially delivered courses. For this course, emphasis will be placed on the comprehensive delivery of pharmaceutical care to patients with cardiovascular, renal, dermatologic, bone and joint disorders. These topics will complement content taught in the balance of integrated courses. Patient and disease management will occur in the context of a virtual health care environment.
It presents various techniques, tools and strategies to evaluate the economic contribution of drug therapies. The course also follows up on some of the contents in courses PHAR231, PHAR305 and PHAR405, regarding pharmacoeconomics, describing strengths and weaknesses of different skills and methods required in that design, including the basic concepts and methods of biostatistics, with a focus on their role in practice as well as the pharmacoeconomics research.

PHAR 330

StrucPractical Exp in Pharm III
Credit Hours: 4
SPEP IV (PHAR330) is the fourth of a series of six (PHAR330, PHAR430, PHAR530, PHAR531, PHAR532, PHAR533) courses designed to provide students with a variety of practice-based opportunities that apply the knowledge and skills gained through campus-based learning. These opportunities will occur in select hospital, community and clinic-based pharmacy practice sites and are structured around a number of formalized, each designed to lead to the attainment of specific learning objectives. Select pharmacy practitioners will serve as mentors, role models, trainers and assessors of student learning.

Prerequisite
PHAR 430

PHAR 531

StrucPractical Exp in Pharm IV
Credit Hours: 4
SPEP V (PHAR531) is the fifth of a series of six (PHAR330, PHAR430, PHAR530, PHAR531, PHAR532, PHAR533) courses designed to provide students with a variety of practice-based opportunities that apply the knowledge and skills gained through campus-based learning. These opportunities will occur in select hospital, community and clinic-based pharmacy practice sites and are structured around a number of formalized, each designed to lead to the attainment of specific learning objectives. Select pharmacy practitioners will serve as mentors, role models, trainers and assessors of student learning.

Prerequisite
PHAR 505

PHAR 525

Pharmacoeconomics, Pharmacoecon
Credit Hours: 2
The PHAR525 course starts by providing a brief understanding of the concept of resource allocation in relation to health sector. It analyses the 'market' for health care in terms of efficiency and equity. The bulk of the courses are devoted to the understanding and to provide an outline for the understanding and application of its concepts at a patient and policy level.
Various definitions of philosophy and its methodology – classification of sciences – historical overview of the developing stages in philosophy from the Greek era until now– the relation between science and philosophy – relation between religion and philosophy – Epistemology: possibility of knowledge, its sources and nature – Ontology: nature of being, materialism and spiritualism – Axiology: logic as the study of truth, ethics as the study of morals, and aesthetics as the study of norms of beauty. – The problem of body and mind.

PHIL 114 Critical Thinking Credit Hours: 3 Through this course, students come to learn the required skills that help enhance man’s thinking to come to better decision-making and problem solving. The content of this course is as follows: Why & What Critical Thinking is - Vagueness and Ambiguity - Language And Definition - Types of Definitions: Stipulative , Reportive, Synonym and Example Definitions, Avoiding Definition Mistakes - Types of Disagreements: Factual , Verbal, Interpretive and Evaluative - Common Mistakes In Thinking – Reasoning: Patterns Of Deductive Thinking , Inductive Thinking - Modes of Proof: topics for reading and writing to be selected from different disciplines, such as: history, economics, social issues, natural science, and ethics as application of thinking skills.

Prerequisite ENGL 202 OR ENGL 004 OR ENGL F073 TOEFL Internet-based Test 061 OR TOEFL Inst Testing Prot 500 OR Int Eng Lang Test Syst-IELTS 5.5 OR TOEFL Computer-based Test 173 OR

PHIL 200 Introduction to Ethics Credit Hours: 3 In this course, we will study some of the main ethical theories in the history of philosophy, and consider these theories in light of real the ethical problems we face in human life.

Prerequisite PHIL 100

PHIL 210 Islamic Philosophy Credit Hours: 3 In this course, we will study some of the major problems and figures in classical Islamic philosophy.

Prerequisite PHIL 100 AND PHIL 110

PHIL 300 Knowledge & Reality Credit Hours: 3

In this course, we will study some of the main problems and theories in late modern and contemporary epistemology and metaphysics.

Prerequisite PHIL 100 AND PHIL 110

PHIL 310 Phil & Contemporary Life Credit Hours: 3

In this course, we will examine the philosophical contributions of some of the most urgent and controversial issues facing humanity in today’s world.

Prerequisite PHIL 200

PHIL 320 Asian Values Credit Hours: 3

This course will cover the main themes of the major philosophies and religions of the Far East, including Hinduism, Buddhism, Taoism, and Confucianism. Additionally, we will explore some of the ways in which people in today’s Far Eastern societies relate to and discuss contemporary global ethical problems.

Prerequisite PHIL 100 AND PHIL 110

PHIL 330 Philosophy of History Credit Hours: 3

This course will cover the main problems concerning the nature and limits of historical knowledge, the relation between history and other disciplines, and the existence, nature, and kinds of historical laws, as these are examined in the writings of Ibn Khaldun, Hegel, Marx, and others.

Prerequisite PHIL 100 AND PHIL 110

PHIL 400 Philosophy of Science Credit Hours: 3

This course will introduce the students to the main problems and ideas in the philosophy of science.

Prerequisite PHIL 300

PHIL 410 Special Topics Credit Hours: 3

The special topics course will provide in-depth focus on a specific philosophical topic, thinker, or school of thought. The topic of each Special Topics course will be announced each term, and will be designed to engage the student in a wide range of philosophical skills and subject areas, and on problems that are highly relevant to the students’ circumstances.

Prerequisite PHIL 100 AND PHIL 110

PHYS 101 General Physics I Credit Hours: 3

Vectors - motion in one dimension - motion in a plane - Newton’s laws - work and energy - potential energy - momentum - rotational motion - dynamics of rotational motion - electricity - fluid mechanics.

Prerequisite MATH 101

PHYS 102 General Physics II Credit Hours: 3


Prerequisite PHYS 101

PHYS 103 General Physics Lab Credit Hours: 1

This is the Lab course covering the subject matter of PHYS101, and PHYS102 and designed to be taken concurrently with PHYS102. The course presents an introduction to the methods of experimental physics. Emphasis is placed on developing students’ skills in experimental methods, data analysis, and scientific reporting of lab work. During the course, students execute a series of experiments on Dynamics of motion, Oscillatory motion, Thermal properties of matter, geometrical optics, Viscosity, Spectroscopy, and Radioactivity. The course includes computer-based experiments in Classical Mechanics.

Prerequisite PHYS 101

PHYS 183 Intro to General Physics Credit Hours: 3

This course is designed primarily to be appropriate for prospective elementary school teachers. The course is aimed to investigate in detail the physical principles and concepts discussed in elementary schools. It is algebra and trigonometry-based study of some selected topics drawn from classical and modern physics, with an emphasis on real-life applications. Topics studied include: Measurements and Units, Classical description of motion in terms of force and energy, States of matter, Elasticity and elastic modulus, Heat and Thermal properties of matter, Electrostatics, Electrodynamics, Elements of Electric Circuits, Magnetostatics, Magnetic effects of electric current, Electromagnetic Induction, Magnetic Materials, Wave Motion, Sound and light, Optical
PHYS 191
General Phys I-Engineering
Credit Hours: 3
•Physics and Measurements: Units and Physical Quantities- Vectors- Motion in One Dimension- Motion in Two Dimensions- Horizontal Motion- Vertical Motion- Projectile Motion- Kinematic Equations.
•The Laws of Motion: Newton’s First Law- Newton’s Second Law- Some Applications of Newton’s Laws- Circular Motion and its Application.
•Linear Momentum and Collision: Linear Momentum- Impulse of Momentum- Collision- Elastic and Inelastic Collision- The Concept of Mass- Motion of a System of Particles.
•Rotational Motion: Angular Position, Velocity and Acceleration- Rotational Kinematic Motion Equations- Angular and Linear Quantities- Rotational Kinetic Energy- Calculations of Moments of Inertia- Torque- Work, Power and Energy in Rotational Motion- Rolling Motion of a Rigid Object.
•Angular Momentum: Angular Momentum- Angular Momentum of a Rotational Object- Conservation of Angular Momentum- The Motion of Gyroscoops and Tops.
•Elasticity: Elastic Properties of Solids- Type of Elasticity- The Center of Gravity and Static Equilibrium.
•Waves: Definitions of Waves, Pulse on a Rope, Transverse Wave, Longitudinal Wave, Complex Waves, Earthquake Waves, Amplitude of Waves, Wavelength of Waves, Frequency of Waves.

PHYS 192
Examplify Gen Phys For Engin I
Credit Hours: 1
This is the Lab-based course covering the subject matter of PHYS 191. The course presents an introduction to the methods of experimental physics. Emphasis is on developing student’s skills in experimental techniques, data analysis, and scientific reporting of lab work. During the course student execute a series of experiments on Kinematics of motion, kinetic and potential energy, Oscillatory motion, Thermal properties of matter, and Viscosity. The course includes computer based experiments Classical Mechanics.

PHYS 193
General Phys for Engin II
Credit Hours: 3

PHYS 194
Examplify Gen Phys For Engin II
Credit Hours: 1
This is the Lab course covering the subject matter of PHYS 193. The course presents an introduction to the methods of experimental physics. Emphasis is on experimental, data analysis, and written presentation skills of lab work. During the course student execute a series of experiments on electromagnetic fields, Magnetic fields, Induction, DC circuits, and AC circuits.
POPL 230 Climate Change Policy Analysis
Credit Hours: 3
This course analyses current policy options for mitigating and adapting to long-term climate change. The course will examine various policy approaches including the regulatory approach and the market-based approaches, with a particular emphasis on cap-and-trade and carbon taxation. Various models for designing a cap-and-trade system will be studied, including the European experience and regional programs in the United States. Special attention will be paid to methods for setting initial prices and accounting for discounts. The course will focus primarily on national level carbon management policies, but international issues will also be included, as well as equity considerations on a global level.

POPL 232 Energy & Envi. Economics
Credit Hours: 3
There is currently a strong need for high-quality policy development in the economics of energy production and consumption and Environment. Government leaders operating in these domains need scientific data to make informed decisions, especially from an economic point of view. The purpose of this course is to improve knowledge on specific global energy issues and Environment from an economic perspective to improve the information available to decision-makers in this field.

POPL 241 Comm.-Based Policy Dev.& Anal.
Credit Hours: 3
This course has two primary learning objectives. First, it examines the moving parts of the policy process at the community level, including the primary actors and institutions involved in each stage of the policy-making process, as well as the core theories and concepts for understanding these stages, which include: agenda-setting, policy formulation, policy adoption, and implementation. Second, the course will provide the necessary tools for students to successfully navigate the policy process. In particular, students will develop the communication skills and strategies to participate in the policy process through a combination of

POPL 245 Intr.to Theo.& Prac.of Urb Plan
Credit Hours: 3
Within this course, analysis and discussion are devoted to planning models, planning decisions, and alternative planning roles. Students will focus their studies on comprehensive and strategic planning, community participation, new urbanism concepts, equity concerns, and planning at local, regional, and state levels.

POPL 285 Impact Assessment Studies
Credit Hours: 3
This course will explore the key elements and analytic techniques used in impact assessment from an urban planning perspective. It will investigate how application of urban planning impact assessment affects project outcomes. Students will be introduced to the requirements of laws as well as standard methodologies for conducting assessments. Case studies will be used to illustrate the effect of the impact assessment on design and implementation of projects or governmental actions. Practical assignments will give students an introduction to the state of practice and the range of analytic techniques used in impact assessment.

Credit Hours: 3
This course introduces students to the evaluation of social programs for policy-based decisionmaking. Focus is on the principles for designing impact evaluations; the assessment of whether the program was implemented as planned; the quality of the program’s services; the relationship among the program operation rules, the evaluation design, and potential ethical challenges; the examination of the benefits and costs of changes; and the influence of impact evaluations in public policies.

POPL 320 Energy Risk Management
Credit Hours: 3
This course provides an overview of key issues related to energy risk management. Some of the key topics to be addressed are: managing pricing risks associated with changing market conditions and deregulation; tools used to manage volatility, including futures and options for energy risk management; environmental risk management, and risk financing for the energy sector.

POPL 321 Energy:Sci. Tech.& Human Usage
Credit Hours: 3
This course covers the technologies by which humans appropriate energy for industrial and societal use. The course also covers the physics and economics of the resulting human energy system; fuel sources and relationship to energy flows in the Earth system; and modeling and simulation of energy production and use. The goal is to provide a technical foundation for students interested in careers in the energy industry or in energy policy.

POPL 325 International Law & Security
Credit Hours: 3
This course will examine the key principles in international law and apply them to contemporary international security challenges. The role of states and non-state actors and how they operate with international law in their responses to security threats will be examined through a case study approach. Basic issues such as the use of force, military rights, terrorism, environmental threats, and drug trafficking will be examined.

Credit Hours: 3
This course focuses on the international frameworks for responding to climate change. It includes a review of the history of international responses to climate change, how decisions are made, what is agreed, what is outstanding, and where the fault lines exist—and then examines efforts at integrating climate change into various international institutions. The course includes an examination of how climate change is likely to affect the ability of countries to fulfill their international commitments under other agreements. The course also examines the role of a range of international organizations such as the World Trade Organization, the World Intellectual Property Organization, the UN Security Council, and the UN High Commissioner for Refugees.

POPL 335 Science, Technology & Policy
Credit Hours: 3
This course will introduce students to the evaluation of social programs for policy-based decisionmaking. Focus is on the principles for designing impact evaluations; the assessment of whether the program was implemented as planned; the quality of the program’s services; the relationship among the program operation rules, the evaluation design, and potential ethical challenges; the examination of the benefits and costs of changes; and the influence of impact evaluations in public policies.

POPL 340 Labor & Org. Relations
Credit Hours: 3
The course covers the following topics: organization structure and bureaucracy, management issues and processes, managerial psychology, managing diversity, leadership, strategic human resource management, labor relations, personnel administration, performance measurement, program evaluation, information management, and ethics of public service. Each section of the course uses a different aspect of Public Policy or public management to emphasize these topics. The objectives of the course are achieved by using case studies, simulation exercises, class visitors, and practical exercises that complement the assigned readings and class discussions.

POPL 345 Diversity & Community Dev.
Credit Hours: 3
This course focuses on the international frameworks for responding to climate change. It includes a review of the history of international responses to climate change, how decisions are made, what is agreed, what is outstanding, and where the fault lines exist—and then examines efforts at integrating climate change into various international institutions. The course includes an examination of how climate change is likely to affect the ability of countries to fulfill their international commitments under other agreements. The course also examines the role of a range of international organizations such as the World Trade Organization, the World Intellectual Property Organization, the UN Security Council, and the UN High Commissioner for Refugees.

POPL 350 Housing & Community Dev.
Credit Hours: 3
This course offers an intensive analysis of the major public policy issues and methodological problems encountered in the production, financial, and consumption sectors of housing program design at the national, regional, and local levels. Students develop various analytical skills that will assist them in the evaluation of policy-making processes and in the development of appropriate strategies for housing program effectuation from an urban growth management perspective. The course uses a different aspect of Public Policy or public management to emphasize these topics. The objectives of the course are achieved by using case studies, simulation exercises, class visitors, and practical exercises that complement the assigned readings and class discussions.

POPL 355 Science, Technology & Policy
Credit Hours: 3
The course offers an intensive analysis of the major public policy issues and methodological problems encountered in the production, financial, and consumption sectors of housing program design at the national, regional, and local levels. Students develop various analytical skills that will assist them in the evaluation of policy-making processes and in the development of appropriate strategies for housing program effectuation from an urban growth management perspective. The course uses a different aspect of Public Policy or public management to emphasize these topics. The objectives of the course are achieved by using case studies, simulation exercises, class visitors, and practical exercises that complement the assigned readings and class discussions.

Faced with the challenge of meeting the needs of diverse communities, managers in local governments must develop innovative, cost-effective ways to deliver public services. This course focuses on the major topics such as economic growth and personal well-being; economic inequality and poverty; intra-household resource allocation and intragenerational consumption; informality, microfinance; labor markets and trade policy.

Pre requisite POPL 242

POPL 350 Housing & Community Dev.
Credit Hours: 3
This course offers an intensive analysis of the major public policy issues and methodological problems encountered in the production, financial, and consumption sectors of housing program design at the national, regional, and local levels. Students develop various analytical skills that will assist them in the evaluation of policy-making processes and in the development of appropriate strategies for housing program effectuation from an urban growth management perspective. The course uses a different aspect of Public Policy or public management to emphasize these topics. The objectives of the course are achieved by using case studies, simulation exercises, class visitors, and practical exercises that complement the assigned readings and class discussions.

POPL 355 Science, Technology & Policy
Credit Hours: 3
This course offers an intensive analysis of the major public policy issues and methodological problems encountered in the production, financial, and consumption sectors of housing program design at the national, regional, and local levels. Students develop various analytical skills that will assist them in the evaluation of policy-making processes and in the development of appropriate strategies for housing program effectuation from an urban growth management perspective. The course uses a different aspect of Public Policy or public management to emphasize these topics. The objectives of the course are achieved by using case studies, simulation exercises, class visitors, and practical exercises that complement the assigned readings and class discussions.

Pre requisite POPL 230

POPL 335 Science, Technology & Policy
Credit Hours: 3
This course offers an intensive analysis of the major public policy issues and methodological problems encountered in the production, financial, and consumption sectors of housing program design at the national, regional, and local levels. Students develop various analytical skills that will assist them in the evaluation of policy-making processes and in the development of appropriate strategies for housing program effectuation from an urban growth management perspective. The course uses a different aspect of Public Policy or public management to emphasize these topics. The objectives of the course are achieved by using case studies, simulation exercises, class visitors, and practical exercises that complement the assigned readings and class discussions.

POPL 355 Science, Technology & Policy
Credit Hours: 3
This course offers an intensive analysis of the major public policy issues and methodological problems encountered in the production, financial, and consumption sectors of housing program design at the national, regional, and local levels. Students develop various analytical skills that will assist them in the evaluation of policy-making processes and in the development of appropriate strategies for housing program effectuation from an urban growth management perspective. The course uses a different aspect of Public Policy or public management to emphasize these topics. The objectives of the course are achieved by using case studies, simulation exercises, class visitors, and practical exercises that complement the assigned readings and class discussions.

Pre requisite POPL 230
This course examines reconstruction policy planning in areas, countries or regions that have experienced crises or natural disasters. This course is applied through a case study approach.

POPL 352
Econ. Policy Appr. to Sust.
Credit Hours: 3
This course analyzes current policy options for addressing the implications of urban air pollution, water quality and quantity, and political aspects of housing for minority groups. It covers: 1) both classic communication theories and concepts, application strategies and research methods of the media and related communication industries; 2) various research methods in mass, interpersonal, organizational and intercultural communication; and 3) the interrelationship among communication, media and society.

Prerequisite
POPL 340

POPL 485
Public Policy & Know. Based Econ
Credit Hours: 3
This course provides a wide introduction to the economic analysis of public policy issues. The course deals with microeconomic theory, and the use of analytical tools in their application to key policy case studies of spending, taxing and financing activities of government. Focus is given to new developments in public economics such as behavioral public economics and policy innovations.

POPL 486
Alternative Energy
Credit Hours: 3
This course will introduce students to the major theoretical frameworks to understand how societies design and implement alternative energy policies. The course will also examine how the energy industry is responding to alternative energies and how the figure in an energy supply matrix. These issues will be illustrated through case studies.

POPL 488
Public Policy Plan. & Analysis
Credit Hours: 3
This course analyzes policy and planning issues through microeconomic theory and statistical methods. Analytic modeling and data manipulation will be applied. This course will encompass needs assessment and market failure analysis, extrapolation and simple forecasting, value presentation, interpretation of data in addition to indexing and simple risk analysis. These concepts are applied on case studies involving urban and regional policy and planning issues.

POPL 490
Internship
Credit Hours: 3
Students will have ongoing opportunities for practical application of policy development theory and professional skills and networks through a required internship, which will provide direct contact with the operating realities of government, multinational institutions, or nongovernmental organizations.
research methods in social psychology, group dynamics, social interaction, attitudes, values, prejudice, socialization process, anti-social/ pro-social behavior, and social power.

**PUBH 101**

P H S: Principles and Practice Credit Hours: 3
This course introduces students to the inter-disciplinary field of public health, including its historical development and major concepts and themes, such as the difference between individual and population-based strategies for improving health. The course will also introduce students to the tools of public health, including epidemiologic principles and health policies. The format will include lectures, discussions, and problem-based learning.

**PUBH 200**

Inter. Health and Global Soci. Credit Hours: 3
This course examines a range of global health challenges facing countries of different social and economic development levels, as well as the experiences of different countries in their struggles. Students will learn about the role of major international health organizations and come away with an understanding of the effects of globalization on health.

**PUBH 201**

Environmental Health & Disease Credit Hours: 3
This course examines the connections between population health and the physical, biological and chemical environment. Major global environmental health issues will be discussed, including climate change, water availability and quality, and the degradation of natural resources. The course will also address relevant public policies at the national and international levels.

**PUBH 202**

Health, Behaviour and Society Credit Hours: 3
This course introduces students to social and behavioral science theories that are relevant to public health. Throughout the course, students will learn to apply those theories to explain how public health problems arise and how they can be successfully addressed. The course will discuss the role of factors such as gender, race/ethnicity and culture on health behaviors and outcomes. The fundamental concepts of inequity and inequality will be addressed.

**PUBH 205**

Reso. Methods for Pub. Health Credit Hours: 3
This course investigates theories and practices of research in Public Health. Students will learn different research approaches, methods and designs used in addressing public health questions. The course will allow students to apply the different steps necessary for investigating issues relevant to public health with emphasis on instrument design, data collection and analysis.

**PUBH 206**

Classification of Diseases Credit Hours: 3
This course introduces the ICD-9 and ICD-10 classification systems, and demonstrates the importance and the challenges of accurate classifications of diseases as well as how these systems are related to billing and payment.

**PUBH 208**

Quality of Health Care Credit Hours: 3
This course addresses the concept of quality in health care at both the systems level and the level of the clinical setting. At the systems level, the course will discuss population health outcomes vis-a-vis financial investments in health care. At the level of the clinical setting, the course will address implementation, oversight, and management of quality-oriented activities.

**PUBH 221**

Contemporary Health Issues Credit Hours: 3
This course provides students with information about a variety of health issues facing the community today through up-to-date and relevant case studies. Emphasis will be placed on initiatives for health promotion and disease prevention.

**PUBH 222**

Found. of Health Education Credit Hours: 3
This course introduces students to the principles and evolution of health education. It provides students with skills in the design and implementation of health education programs. Students will discover different technologies that can be used to enhance health education. The course will also emphasize different strategies that could facilitate the success of a health education program.

**PUBH 230**

Strategic Planning & Marketing Credit Hours: 3
This course introduces the basic theories and methods of strategic planning and its function in the context of delivering health services. Through a combination of lectures, group work, and practical projects, students will acquire both knowledge and practical skills in the design and assessment of health-related strategic planning and marketing.

**PUBH 241**

Biot. Methods for Pub. Health Credit Hours: 3
This course provides a breadth of statistical analysis methods applied to health-related issues. Topics include probability and distributions, quantitative data analysis techniques, statistical inferences, and hypothesis testing. The course will include a lab component using statistical software for data analysis

**Prerequisite** STAT 101

**PUBH 301**

Public Health Ethics Credit Hours: 3
This course assists students in developing an ethical framework for identifying and analyzing ethical issues that arise in the study and practice of public health. Cooperating faculty may be drawn from philosophy, law, medical ethics, history, political science, public health, economics, education, and communication, as well as medicine and the biological sciences.

**Prerequisite** PUBH 101

**PUBH 303**

Epidemiology Credit Hours: 3
This course will introduce students to foundational concepts, methods and applications of epidemiology. Topics in this course include different types of study design, measures of disease frequency, measures of association, confounding, bias, causation, disease screening, and surveillance. Case studies apply these concepts to a variety of infectious, acute, and chronic health conditions affecting the population.

**Prerequisite** PUBH 101 AND PUBH 241

**PUBH 305**

Air Pollution & Human Health Credit Hours: 3
This course covers topics such as toxicologic, controlled, and epidemiologic studies on major air pollutants. Students also will gain an overview of research study methods, lung physiology and pathology, air pollution sources and types, meteorology, sampling methods, controls, and regulations.

**Prerequisite** CHEM 101 AND CHEM 103

**PUBH 306**

P H S, Manag. & Policy Devel. Credit Hours: 3
Through this course, students will learn about the public systems and their assessment through the lenses of equity, efficiency and effectiveness. Students will also learn about healthcare management and organization, health policy, and healthcare reforms.

**Prerequisite** PUBH 101

**PUBH 310**

Needs Assess. Meth. for H E P Credit Hours: 3
This course will give students knowledge and skills in conducting public health needs assessment in a practical manner, using both primary and secondary data sources.

**PUBH 312**

Planning for H E P Credit Hours: 3
This course is designed to complement PUBH 310 by allowing students to use the findings of needs assessments to plan effective health education programs and interventions.

**Prerequisite** PUBH 310

**PUBH 314**

Health Education Practicum Credit Hours: 1
This course provides students the opportunity to conduct guided practical work and to implement the results of needs assessments and health education planning.

**Prerequisite** PUBH 312

**PUBH 320**

Health Communication Credit Hours: 3
This course will examine the basic theories of communication to the field of health. Skills in oral and written public health-specific communication will be emphasized. Among other
topics, the course will address mass media and how the revolution in information technology has affected health communication.

Prerequisite PUBH 101

PUBH 325 Nutritional Epidemiology
Credit Hours: 3

This course addresses techniques used to evaluate relationships of diet to health and disease in human populations. It also addresses the results of animal and clinical studies that are related to understanding dietary risk or protective factors for disease. Students will also complete advanced diet assessment and engage in basic epidemiologic approaches to health and nutrition.

Prerequisite PUBH 303 AND NUTR 221

PUBH 338 Fin. Mgmt. of Health Care
Credit Hours: 3

Financial Management teaches critical management and budgeting skills necessary to successfully run programs and organizations. It acquaints students with the purposes, characteristics, processes, and operations of financial management systems. It also develops students’ capabilities to manage the financial resources of healthcare institutions. Students will engage in an intensive study of the financial management interventions to promote overall health and to prevent problems among women across the lifespan.

Prerequisite MAGT 101

PUBH 420 Design of Program Evalu. Sys.
Credit Hours: 3

This course provides content in theory, concepts, and methods of program planning and evaluation in the context of health care and community health organizations, and covers fundamental concepts related to designing and implementing health services quality improvement projects. Students will also develop a comprehensive understanding of health outcome measures, including generic health status measures, disease-specific measures, and consumer reports of the quality of care.

Prerequisite PUBH 101 AND PUBH 205

PUBH 421 Health Promotion and Disease Prevention for Women Across the Lifespan
Credit Hours: 3

This course focuses upon health concerns for women, recognizing differences among age, socioeconomic, and ethnic groups; synthesis of biological, psychosocial, and cultural influences of such health concerns. Students will engage in analysis and discussion regarding health management interventions to promote overall health and to prevent problems among women across the lifespan.

Prerequisite PUBH 420

PUBH 426 Prevention Science
Credit Hours: 3

This course provides a theoretical, empirical and practical foundation for prevention science as it relates to the prevention of human social problems. The course also addresses research and evaluation methods, program design strategies, best practices, and policy development, as they relate to the field of prevention.

Prerequisite PUBH 303

PUBH 430 Health Economics
Credit Hours: 3

This course covers the fundamentals of health economics issues, including demand, supply and pricing, market structure, medical malpractice, technological change, value of life, role of insurance, and other aspects of uncertainty.

Prerequisite PUBH 101 AND PUBH 205

PUBH 439 Public Health Preparedness
Credit Hours: 3

This course is designed to prepare students to design and implement emergency response plans. It will discuss domestic and foreign emergencies and disasters and planning for their efficient medical response. Although the course’s primary focus will be on human populations, this course will also cover animal issues in the context of zoonotic disease outbreaks, human evacuation planning, and animal epidemics and their impact on public health perception and the safety of the food supply.

Prerequisite PUBH 101 AND PUBH 205

PUBH 440 Introduc. To Sociology
Credit Hours: 3

This course provides a fundamental introduction to the discipline of sociology. In the broadest terms, sociology is the study of society. More specifically, sociology explores the interactions between social institutions, cultures, groups and individuals. It examines how unequal power relations organize the social world, and how those unequal power relations shape individual lives. It also focuses upon how individuals navigate and negotiate the different social and cultural contexts in which they live. To accomplish this task, sociology relies on a variety of established theories and methods. This course will introduce students to those theories and methods. It will also provide students with a critical perspective on the application of those ideas in the examination of real-world problems. This course includes field-based projects.

SOCI 121 Introduction to Anthropology
Credit Hours: 3

This course introduces students to the discipline of anthropology. Students will briefly explore the four subfields of anthropology (physical or biological anthropology, linguistic anthropology, archaeology, and sociocultural anthropology). The central focus of this course will be on the last of those subdisciplines. Students will learn the historical development of anthropology, the primary theoretical frameworks it has developed, and the methods anthropologists utilize in the field. Students will also learn the opportunity to apply these tools in solving a real-world problem through a field-based project.

SOCI 200 Sustainable Development
Credit Hours: 3

This course will examine the historical development of the concept of sustainable development, differing interpretations of the concept, empirical indicators of sustainability in environmental sociology, and policy proposals for achieving sustainable development in Qatar within Arab Gulf region. The emphasis of this course is on assessing the political, economic, social and cultural forces that pose a significant challenge to the development of a more sustainable future. There will be field-based projects.

SOCI 261 Quantitative Methods
Credit Hours: 3

The scientific method is central to much analysis in the
SOC 264

social sciences. This course introduces students to the logic of scientific inquiry in the social arena. Students will investigate strategies for research design, sampling populations, measurement, and various structured methods of data collection. Students will also learn basic strategies for analyzing and presenting that data.

Prerequisite
SOC 120 OR SOCI 121 OR SOCI 241 OR SOCI 247 OR SOCI 203

SOC 262

Qualitative Methods
Credit Hours: 3
Qualitative methods provide a second methodological frontier in the prevention and cure of violence. It is a relentless pursuit, a constant pursuit, a constant research, an unexpected journey, a splendid characteristic of the bedouin's nature. The bedouin people have always been an integral part of the Arabian Peninsula, and their traditional way of life has been shaped by the harsh environment of the desert. This course will focus on the methodology and techniques used in qualitative research, including ethnographic methods, participant observation, and in-depth interviews. Students will learn how to design and conduct qualitative research projects and analyze qualitative data.

Prerequisite
SOC 120 OR SOCI 121 OR SOCI 241 OR SOCI 247

SOC 263

Badawi Society
Credit Hours: 3
This course examines Bedouin society, with a strong focus on Bedouin society on the Arabian Peninsula. Students will examine the traditional Bedouin social order, the role of kinship and lineage, and the interplay between these institutions in different settings. This course will also explore the ways in which Bedouin society has been shaped by contact with external influences, such as Islam and modernity.

Prerequisite
SOC 120 OR SOCI 121 OR SOCI 241 OR SOCI 247 OR SOCI 203

SOC 264

Family & Kinship
Credit Hours: 3
The importance of family and kinship is seemingly a universal aspect of human existence. A quick survey of different societies around the world, however, yields a fundamental conclusion: the concept of family and the calculation of kinship is extraordinarily variable over time and place. In this course, students will investigate the classic approaches to studying family and kinship. They will develop a deep understanding of the variability of family and kinship across time and across cultures, and will grapple with the theories that explain that variability. While the focus will be on Arabian conceptions of family and kinship, students will explore family and kinship in other settings as well.

Prerequisite
SOC 203 OR SOCI 120 OR SOCI 241 OR SOCI 247

SOC 265

Population & Migration
Credit Hours: 3
Demography and populations studies have long been central to the sociological mission. But throughout history - and particularly in the contemporary era - millions of people are on the move. In this course, students will focus on the combination of these two traditions. Students will explore the theories developed to explain and understand population growth and change in human society. With that toolkit, students will also explore the theories that explain the increasing movement of people outside the communities, regions, and nations that are their home.

Prerequisite
SOC 120 OR SOCI 121 OR SOCI 241 OR SOCI 247 OR SOCI 203

SOC 266

Urban Studies
Credit Hours: 3
This course examines the conceptual foundation and theoretical frameworks through which the social science's understanding of urbanization and urbanism have been developed. Students will explore classic social theory concerned with urbanization and urbanism. Specific attention will be given to what those theorists had to say about the Middle Eastern City, as well as the Arabic literature's own tradition of urban studies. Turning to the contemporary era, students will explore the modern and post-modern city, and grapple with the role of globalization and neoliberalism in shaping the cities around the world, including those located here on the Arabian Peninsula.

Prerequisite
SOC 120 OR SOCI 121 OR SOCI 241 OR SOCI 247

SOC 268

Culture, Health & Disease
Credit Hours: 3
This course examines the social and cultural dimensions of health, illness and disease in the global arena. As such, the course introduces students to the fields of medical sociology and medical anthropology. Students will examine multiple themes over the course of the semester, including the social construction of health and disease and medical knowledge, the conceptualization and subjectification of the body, as well as the patterns of distribution of disease and mortality in Qatar and around the world. Students will also investigate the organization of the health care system in Qatar and in other parts of the world, the connection between environment and disease, and the cultural articulation of the relationship between doctors and patients.

Prerequisite
SOC 121 OR SOCI 121 OR SOCI 241 OR SOCI 247 OR SOCI 203

SOC 269

Sociological Theory
Credit Hours: 3
This is a course in an in-depth survey of the enduring conceptual frameworks utilized in the discipline of sociology. Students will consider the primary and fundamental questions posed by nineteenth and twentieth-century social analysts, and the theories they contributed to answer those questions. The first portion of the semester focuses upon the "classical" theorists, including Marx, Weber and Durkheim. The second half of the semester introduces students to the contemporary perspectives developed over the last five decades.

Prerequisite
SOC 121 OR SOCI 120 OR SOCI 241 OR SOCI 247 OR SOCI 203

SOC 270

Demography and populations studies have long been central to the sociological mission. But throughout history - and particularly in the contemporary era - millions of people are on the move. In this course, students will focus on the combination of these two traditions. Students will explore the theories developed to explain and understand population growth and change in human society. With that toolkit, students will also explore the theories that explain the increasing movement of people outside the communities, regions, and nations that are their home.

SOC 360

Urban Studies
Credit Hours: 3
This course examines the conceptual foundation and theoretical frameworks through which the social science's understanding of urbanization and urbanism have been developed. Students will explore classic social theory concerned with urbanization and urbanism. Specific attention will be given to what those theorists had to say about the Middle Eastern City, as well as the Arabic literature's own tradition of urban studies. Turning to the contemporary era, students will explore the modern and post-modern city, and grapple with the role of globalization and neoliberalism in shaping the cities around the world, including those located here on the Arabian Peninsula.

Prerequisite
SOC 120 OR SOCI 121 OR SOCI 241 OR SOCI 247 OR SOCI 203

SOC 361

Human Rights
Credit Hours: 3
This course explores human rights as a particular and historically contingent set of ideas that is tied to the project of modernity launched by Rousseau, Locke, Hobbes, and other classic philosophers in the European tradition. These ideas were crystallized in the 1948 Declaration of Human Rights, and purveyed to the rest of the world in a colonial, post-colonial, and globalized world. This course critically examines the history and development of this set of ideas, investigates alternative conceptions of human rights (with a particular focus on the Islamic and Arabic traditions), and looks at the application of human rights in Qatar and the other Gulf States. It also explores the vast distance between the idealized conception of human rights and their deployment in practice.

Prerequisite
SOC 121 OR SOCI 120 OR SOCI 241 OR SOCI 247 OR SOCI 203

SOC 362

Comparative Ethnography
Credit Hours: 3
Ethnography is the craft of Anthropology. In producing ethnographies, scholars seek to capture the entirety of the different social and cultural systems. Students will explore how those cultural and social differences contribute to the field of human society. This course focuses explicitly upon the concept of ethnicity as described by both the group in question and others in the world. At the same time, however, the concept of ethnicity has a long and mercurial history. The use of this concept has shifted dramatically over time. In this course, students will explore the history of the concept of ethnicity, examine the long association of ethnicity with minority status, and evaluate the connections between the concept of ethnicity and the concept of identity. While the focus of the course will be the global, many case studies will be drawn from Qatar and the other Gulf States.

SOC 364

Violence
Credit Hours: 3
In its many forms, violence seems to be an enduring facet of human society. This course focuses explicitly upon the phenomenon of violence, the theories by which we might explain its ongoing presence in society, and the critical approaches to discerning the source of that violence.

This examination of violence moves across scales: focal points include gender-based violence, terrorism, crime and criminality, human trafficking, and much more. While the focus of the course will be the global, many case studies will have the opportunity for the practical application of these ideas in analyses of Qatar.
to that reality. This course will introduce students to a wide variety of religious perspectives, and uses a comparative approach to assess and evaluate the patterns and differences in these ideological and experiential packages. Students will also critically evaluate the concept of religion itself by grappling with the vastly different sorts of ideas and experiences that are encompassed by this concept in different cultural settings.**

**Prerequisite**
SOCI 120 OR SOCI 121 OR SOCI 241 OR SOCI 247 OR SOCI 203

**SOCI 365 Study of Gender**
Credit Hours: 3
This course explores and analyzes the profound importance of gender in the organization of social life and in the construction of personal identity, with a strong emphasis on women’s experiences. Gender is studied in the context of race, ethnicity, class and the other basic social divisions that characterize human social life. The course focuses on how gender pervades every aspect of society and culture, and how both men and women experience, endure and challenge the gender-based constraints in the contemporary world. While the focus of this course is on the gender of society in the contemporary world, students will explore the organization of legal institutions, doctrines, and practices on other social phenomena, and how they fit within the scheme of things. Significant segments of the course will focus on women in Arab society, political participation, and human rights issues with a gender dimension.

**Prerequisite**
SOCI 120 OR SOCI 121 OR SOCI 241 OR SOCI 247 OR SOCI 203

**SOCI 366 Law & Society**
Credit Hours: 3
This course examines the interaction of law with the various institutions in the contemporary world. Students will explore the organization of legal institutions, doctrines, and practices on other social phenomena, and how they fit within the scheme of things. Significant segments of the course will focus on women in Arab society, political participation, and human rights issues with a gender dimension.

**Prerequisite**
SOCI 120 OR SOCI 121 OR SOCI 241 OR SOCI 247 OR SOCI 203

**SOCI 360 Security Studies**
Credit Hours: 3
This course focuses on how groups divide labor and social frameworks to maintain and naturalize these social divisions; and how both men and women experience, endure and challenge the gender-based constraints in the contemporary world. While the focus of this course is on the gender of society in the contemporary world, students will explore the organization of legal institutions, doctrines, and practices on other social phenomena, and how they fit within the scheme of things. Significant segments of the course will focus on women in Arab society, political participation, and human rights issues with a gender dimension.

**Prerequisite**
SOCI 120 OR SOCI 121 OR SOCI 241 OR SOCI 247 OR SOCI 203

**SOCI 460 Statistics in The Social Sci**
Credit Hours: 3
This course is designed to introduce students to statistics utilized in quantitative analysis in the social sciences. The field of statistics concerns the collection, analysis, interpretation, and presentation of data. Students will acquire the toolkit for calculating basic statistical functions and examine the role of quantitative research in analyzing social phenomena. This course will include a significant applied focus on contemporary social issues in Qatar and around the world.

**Prerequisite**
(SOCI 261 OR SOCI 242 OR SOCI 343 OR SOCI 443) AND (SOCI 262 OR SOCI 344 OR SOCI 302) AND (SOCI 360 OR SOCI 343 OR SOCI 340 OR SOCI 341 OR SOCI 243 OR SOCI 304)

**SOCI 461 Honors’ Thesis**
Credit Hours: 3
This course is intended for advanced students in the social sciences, and is a substitute for SOCI 469. This course will guide students through the preparation of their senior thesis. Working closely with the faculty advisor assigned by the department, students will develop a research plan and conduct that research, analyze the data they collect, and prepare a substantial analytic paper. Students may also be required to present their findings in a formal presentation.

**SOCI 462 Change in Contemp Arab Society**
Credit Hours: 3
Arab society, and particularly the petroleum-rich states of the Arabian Peninsula, have undergone significant and rapid change over the last decades. This course utilizes the sociological and anthropological toolkit to grasp with the shifting social landscape, and similarly explore the impact of those social phenomena upon the institutions, doctrines and practices. This plan of study also includes a focus on criminology, the social construction of legal issues, and the analysis of the connections between law and social change.

**Prerequisite**
SOCI 120 OR SOCI 121 OR SOCI 241 OR SOCI 247 OR SOCI 203

**SOCI 463 Labor & Class-Petrol Society**
Credit Hours: 3
This course explores Khaleeji society through the canonical frameworks of labor, class and social differentiation. From a beginning point grounded in classical social theory, students will use these tools to critically explore the concept of a “Petroleum Society” and ascertain its utility in explaining the social, cultural, political and economic experience of the Gulf societies. This course includes specific focus on the development experiences of the Gulf, the population structure and workforce in the Gulf states, migration and labor, and an exploration of the cultural and social factors shaping work expectations among Gulf locals.

**Prerequisite**
SOCI 260 OR SOCI 243 OR SOCI 204 OR SOCI 342 OR SOCI 304 OR SOCI 341 OR SOCI 340

**SOCI 464 Social Policy & Planning**
Credit Hours: 3
This semester was originally conceived as a tool in the project of modernity, a tool that might help minimize or eradicate social problems or, from another angle, help the state better govern its subjects. In the contemporary era, the social sciences continue to interface with the government, and, either assist or criticize the act of governance. This course explores academic perspectives on social policy and planning, with a strong focus on applied social studies of Qatar and nearby nations. Students will explore how social scientists have used the analytical, methodological, and conceptual toolkit they’ve developed over time to address the problems in human society and, more specifically, in Gulf Society.

**Prerequisite**
SOCI 360 OR SOCI 243 OR SOCI 204 OR SOCI 342 OR SOCI 304 OR SOCI 341 OR SOCI 340

**SOCI 465 Industrial Organization & Work**
Credit Hours: 3
This course begins with an exploration of classic and modern theories of work. Students will use these theoretical frameworks to explore the role of work and emergent forms of work in the contemporary era, and the impact of globalization upon the distribution of work and industry. Students will also familiarize themselves with the international organizations that monitor and analyze work in the contemporary world. In the second half of the course, students will gain field experience in organizations here in Qatar and will explore new and emergent forms of bureaucracy and management.

**Prerequisite**
SOCI 120 OR SOCI 121 OR SOCI 241 OR SOCI 247 OR SOCI 203

**SOCI 466 Soc, Rel, & Pol Movements**
Credit Hours: 3
This course expands the focus of political sociology to include an analysis of the social and religious realm. Political sociology traditionally focuses on the role of the political in the unequal distribution of power in human society. After reviewing the classic theories of political sociology, this course will use those tools to examine social, religious, and political movements in Arabian society and in other parts of the world. Case studies will focus on the civil rights movement in the United States, the women’s rights movements in many parts of the world, the Islamic Brotherhood in Egypt, and the potential for labor movements in the Gulf States.

**Prerequisite**
SOCI 120 OR SOCI 121 OR SOCI 241 OR SOCI 247 OR SOCI 203
SOCI 467
Globalization
Credit Hours: 3
This course examines ways in which globalization constitutes complex economic, social, cultural and political trends around the world. In addition, it provides an overview of the major social scientific theoretical perspectives applicable to understanding the process of globalization and its connection to economic underdevelopment. The theoretical distinctions and the debate between modernization theorists on the one hand, and dependency and world-system theorists on the other are emphasized. Intrinsic to the above is an elucidation of the development of the world capitalist system and its future in a rapidly changing global context.

SOCI 469
Research Project
Credit Hours: 3
This course is intended to guide students through the preparation of their senior thesis. Working closely with the faculty advisor assigned by the department, students will develop a research plan, conduct research, analyze the data they collect, and prepare a substantial analytic paper. Students may also be required to present their findings in a formal presentation.

Pre requisite
(SOCI 261 OR SOCI 242 OR SOCI 343 OR SOCI 443) AND (SOCI 262 OR SOCI 344 OR SOCI 302) AND (SOCI 360 OR SOCI 304 OR SOCI 243 OR SOCI 204 OR SOCI 341 OR SOCI 342) AND (SOCI 460 OR SOCI 401)

SOCI 470
Independent Study
Credit Hours: 1 OR 3
An independent study course provides for study under the supervision of a faculty member of a specific topic not covered by existing courses in order to develop a particular interest on the part of the student. The topic must be agreed upon with a faculty member and described in a proposal at the time of registration.

SOCI 471
Special Topics
Credit Hours: 1 OR 3
This seminar involves an in-depth examination of selected topics in sociology or anthropology. A different topic is selected by faculty each time that it is offered. Relevant theory and current research is examined. Students are typically required for research papers and presentations under close faculty supervision. This course may be repeated for credit.

SOWO 101
Intro to Social Work and Welfare
Credit Hours: 3
This course examines the history and philosophy of social welfare, with an emphasis on the social work profession: its mission, philosophy, ethics, values, and diverse fields of intervention with various client populations served in a range of social welfare settings.

SOWO 200
Social Work and the Law
Credit Hours: 3
This introductory course is designed to provide students with a basic understanding of the law, legal processes, and legal systems as they relate to social work practice as well as to introduce students to the field of forensic social work: the application of social work questions and issues relating to law and legal systems, both criminal and civil.

SOWO 301
Medical Social Work
Credit Hours: 3
This course examines the practice of medical social work in assisting individuals and families in need of medical care, including emotional support that enable them to overcome the psychosocial problems pertaining to illness and hospitalization. And, to master strategies that enable patients to access other resources and assistance that mitigates illnesses and enhances health.

SOWO 302
Mental Health and Social Work
Credit Hours: 3
This course examines the nature and presenting characteristics of the major forms of mental and emotional maladjustments that may contribute to problems in social functioning, adaptation, and life satisfaction. It identifies specific categories of dysfunctional behavior, use of standard criteria, and treatments for dysfunctional behavior from a bio-psychosocial perspective.

SOWO 303
School Social Work
Credit Hours: 3
This course addresses a specialized area of practice that examines the unique knowledge and skills needed to practice within a school system that engages students, families, teachers, the school, and the community. Course explores the policies, practices, history of developments and legislative trends affecting students' well-being. School-community relationships are examined as well as the impact of societal attitudes upon schools.

SOWO 311
Social and Cultural Diversity
Credit Hours: 3
This course emphasizes social-economic and environmental conditions, such as socio-cultural and political assumptions of race, gender, and ethnicity. Also emphasized is the oppressed and vulnerable populations' adaptive capabilities and strengths to function under difficult circumstances. Issues of values, ethics, diversity, social and economic justice and populations at risk are infused throughout the course.

Prerequisite
SOWO 101

SOWO 320
Human Behv & Soc Environment I
Credit Hours: 3
As the first of the two human behavior and the social environment courses, this course introduces the ecological systems theory as an umbrella for the generalist practice model. Focus is on the individual life-span approach to human development and reciprocal interactions among individuals, families, and small groups. Issues of values, ethics, diversity, social and economic justice and populations at risk are infused throughout the course.

Prerequisite
SOWO 101

SOWO 321
Human Behv & Soc Environment II
Credit Hours: 3
As the second of two human behavior and the social environment courses, this course focuses on the reciprocal relationship between individuals and large groups, organizations, and community systems. The course examines also the ways in which social systems promote or deter people in maintaining or achieving health and well-being, issues of values, ethics, diversity, social and economic justice and populations at risk are infused throughout the course.

Prerequisite
SOWO 320

SOWO 330
Social Wlfre Policy & Srvcs I
Credit Hours: 3
This course introduces the policies of social welfare policy and services courses, this course examines the historical roots, mission, and philosophy of social welfare as an institution that responds to human needs and social problems, as well as the social, economic, and political forces that shape social welfare. The political processes for influencing policy formulation processes and improving social welfare services are reviewed. Policy analysis frameworks are introduced.

Prerequisite
SOWO 101

SOWO 350
Social Work.Gen Practice I
Credit Hours: 3
As the first of three generalist practice courses, this course introduces the generalist practice problem solving model that focuses on the strengths, capacities, and resources of large groups, organizations, and communities in relation to the broader environments. Students broaden their skills in implementing the generalist practice model. Content and skills include the following: assessing large systems using empirical theory; applying empirical knowledge and technological advances; developing, analyzing, advocating, and providing leadership for policies and services. Content on values, ethics, diversity, social and economic justice and populations at risk are infused throughout the course.

Prerequisite
SOWO 101

SOWO 360
Social Work Research Methodologl
Credit Hours: 3
The first of two social work research courses, this course introduces various social work research methods and techniques. The basic problem-solving process is presented and related to other research methods. Students will develop beginning skills in research and evaluation methods through the use of practical applications to learn how to critically evaluate research studies and to find answers to research questions.

Prerequisite
SOWO 101 AND STAT 153 OR STAT 101

SOWO 361
Society & Human Rights
Credit Hours: 3
The course discusses social work between the concept of human rights and the concept of cultural relativism. The course tries to answer to what extent the universality of human rights conflicts with the concept of cultural relativism regarding the social issues dealt with in the Universal Declaration of Human Right. In general the
course tries to answer the following question: how Social Work can utilize human rights documents as they are in the United Nations in dealing with the social issues?

SOWO 370 Child&FamiliesPractices&Services
Credit Hours: 3
Overview of practice and policy issues, problems, and opportunities in providing children and family welfare services. Emphasis is on inter-agency collaborative services, culturally sensitive intervention approaches, managing cases to optimally meet children and family needs.

Prerequisite SOWO 101

SOWO 400 Social Wlfre Policy & Srvcs II
Credit Hours: 3
As the second of the two social welfare policy and services courses, this course reviews the theory, knowledge, research values, and skills of social welfare policy and services analyses. Emphasis is upon the processes and methods for understanding and analyzing social welfare policies/services. Various welfare policy/services assumptions, socioeconomic political values, and analysis frameworks are examined.

Prerequisite SOWO 330

SOWO 410 Social Work Research MethodsI
Credit Hours: 3
The second of the two social work research courses, this course gives students the opportunity to integrate traditional research methods and technology into practice that is relevant to their interest. Students will be involved in quantitative and qualitative social work research.

Prerequisite SOWO 360

SOWO 420 Social WorkGen Practice II
Credit Hours: 3
As the second of three generalist practice courses, this course expands the generalist practice model by introducing theory, knowledge, research, values and skills for social work practice with individuals and groups. Content and skills include developing, managing, and terminating groups; understanding group dynamics and processes; facilitating group communication; and, utilizing group leadership. Content on values, ethics, diversity, social and economic justice and populations at risk are infused throughout the course.

Prerequisite SOWO 350

SOWO 440 Integrative Seminar
Credit Hours: 3
A capstone seminar the enables students to integrate the theory, knowledge, values, skills, ethics, and cultural competence of generalist social work practice. Taken concurrently with the Social Work Practicum, this course provides students the opportunity to examine and review practice content and issues encountered in the practicum, as well as serve as a process group for the complex experience of becoming a generalist professional social worker.

Prerequisite SOWO 321 AND SOWO 400 AND SOWO 430

SOWO 441 Social Work Practicum
Credit Hours: 12
This is a 400 plus clock hours practicum placement that builds on the competencies gained in the social work courses. The practicum is educationally directed, coordinated, and monitored for all students. Structured communities allow students to compare their practice experiences, integrate knowledge acquired in the classroom, and expand knowledge beyond the scope of the practicum setting. The practicum is taken concurrently with the Integrative Seminar.

Prerequisite SOWO 321 AND SOWO 430

SPAN 101 Spanish I
Credit Hours: 3
This course is designed to introduce the Spanish language to beginning students, to develop oral and written skills for both comprehension and expression. Language skills to be emphasized include: understanding, reading, writing, and speaking. The course will provide a foundation for the learning the basics of Spanish through grounding in the structure of sentences, with the emphasis on oral communication. The course focuses equally on listening, speaking, reading, and writing.

SPAN 201 Spanish II
Credit Hours: 3
This course is a continuation of 101. It is designed to improve the students’ conversational skills; to provide a variety of readings for written comprehension; to develop a good grammar background; and to improve listening skills. The course also introduces the students to aspects of Spanish culture.

SPSC 101 Traditional and New Games
Credit Hours: 3
The course focuses on the knowledge and understanding of those games which can look back to a long tradition in Qatar and the Arab countries. In addition, the course provides a selection of new and innovative games which are internationally well received.

SPSC 201 Thry & Prctce-Indv Sports I
Credit Hours: 3
The course introduces students to a typical example for individual sports, selected amongst, e.g., athletics, swimming, judo, skateboarding, inline-skating etc. Through practical experience and theoretical reflection the trainees should develop their knowledge, skills and understanding of the chosen individual sport and be able to apply this in the education and promotion context. The students will examine a range of issues that currently influence teaching, learning and promotion of such a team sport. In addition, they are acquainted with the necessities of acquiring coaching and judging competencies.

Prerequisite SPSC 201

SPSC 203 Exercise Physiology I
Credit Hours: 3
To understand essential facts and fundamental concepts of physiological functions of the human body during physical activity and exercise, in children, adolescents and adults to include cardiovascular, respiratory, muscle and neuromuscular functioning in children and adults. Physiological biochemistry of exercise in hypobaric and hyperbaric environments, ergogenic aids and performance, sports nutrition, control and maintenance of body weight, sex differences, cardiovascular disease, metabolic diseases and physical activity.

Prerequisite BIOL 101
SPSC 204  Thry & Prctce-Indv Sports II  Credit Hours: 3  The course introduces students to a further individual sport, to be selected amongst, e.g., athletics, swimming, judo, skateboarding, inline-skating etc. The individual sport selected should provide complementary experiences, e.g., process orientation like gymnastics or result orientation like athletics. Through practical experience and theoretical reflection the trainees should develop their knowledge, skills and understanding of the 2nd chosen individual sport. The students will examine a range of issues that currently influence teaching, learning, and promotion of this individual sport. In addition, they are acquainted with the necessities of acquiring advanced coaching and judging competencies in this selected example of an individual sport.

Prerequisite  SPSC 200

SPSC 206  Resch Meth Exerc Sci & Health  Credit Hours: 3  Quantitative and qualitative research approaches to disciplinary areas in Sport Science. Topics include methods and design, measurement issues, analysis and interpretation of literature and analytical procedures used in research.

Prerequisite  MATH 103 OR MATH 119 OR MATH 121

SPSC 209  Biomchncs & Mvmnt Analysis  Credit Hours: 3  This course will develop trainees’ theoretical foundation of biomechanics and other ways of analyzing movements, physical activities and motor control. The course covers essential and practical knowledge of physiological changes associated with performance and mechanical principles and physical laws that govern human movement and sport. Intensive study will be devoted to analysis of fundamental and complex motor skills and to the use of these skills in performance and sports.

Prerequisite  BIOM 211

SPSC 210  Princ of Trning & Coaching I  Credit Hours: 3  The course introduces to general and specific theoretical matters of training and coaching. To understand facts and concepts of sports physiological/biomechanical functions of human body during exercise and training to include neuromuscular, endocrine, metabolic, cardiovascular and immunological responses to training. Principles of low and high intensity training and training prescription in different environments, in the heat, cold, altitude, markers of overtraining and over reaching, and sports nutrition will be critically addressed and discussed at length. The course provides trainees with knowledge on aspects of planning, implementation and control of training units and focuses also on diagnostic methods of how to measure performance.

Prerequisite  SPSC 203

SPSC 302  Fitness Testing & Training  Credit Hours: 3  This course will deal with the theoretical connections between physical activity seen as a health resource and the various risk factors like high blood pressure, obesity or immune suppression. It will focus on the effect of different physical activities on the response of physiological core parameters in various age groups.

Prerequisite  SPSC 209

SPSC 303  Exercise & Metabolism  Credit Hours: 3  This course will refer to the interrelation between exercise and metabolism with regard to various kinds of exercise at different levels of intensity, duration, and frequency. Different target groups are considered.

Prerequisite  BIOM 215

SPSC 305  Sport Mktg & Mngmnt I  Credit Hours: 3  Emotions and identification in sport demand and consequences for strategic marketing and the marketing mix. The role of time in sports consumption and consequences for strategic marketing and the marketing mix. Socio-cultural context of sport. Sport Sponsoring Conclusions of the sport marketing specialises for sport management (planning, organizing, staffing, directing, controlling).

Prerequisite  SPSC 203

SPSC 306  Motor Learning  Credit Hours: 3  This course provides basic knowledge of the development and learning processes. It covers current theories and principles explaining motor behavior in general, and motor skill acquisition and performance related to sport in particular. This course deals with learning theories, information processing, motor control and motor skill learning and emphasizes why and how children and adults learn and perform motor skills.

Prerequisite  SPSC 203

SPSC 307  Exercise Physiology II  Credit Hours: 3  This course will further develop students’ understanding of the current coaching theories and strategies. To understand both facts and concepts of sports training and coaching, coaching methodology, best practices for optimal performance in recreation to elite athletes. Knowledge of physiological, motor and biomechanical principles as they apply to simple and complex movements in sports that directly involve preparation in both in- and out-of-season training, and are based on current knowledge of training science, including knowledge and execution of training principles of micro, macro and meso-cycles and generally accepted coaching of athletes during training and application of periodization. The course will also cover programs to avoid overtraining and the problems associated with growth, maturation, and issues on aging.

Prerequisite  SPSC 210

SPSC 311  First Aid & CPR  Credit Hours: 0  Introduction and practice in immediate and temporary care of injuries and sudden illness, including administration of CPR. Students seeking CPR certification may apply in writing to program director and they may be asked to pay a small additional fee.

SPSC 318  Exercise Psychology  Credit Hours: 3  This course is about the psychological health core topics like mental and emotional health, motivation to do, health sport, change of long term life style factors with special consideration of social- psychological aspects like group communication, attitude and behavior.

Prerequisite  SPSC 308

SPSC 349  Developmental Psychology  Credit Hours: 3  This course provides the students with fundamentals of growth, development and learning theories for athletes.
in human development in all its dimensions (physical, cognitive, social, and emotional). Teacher candidates are introduced to information about the physical development as well as to psychological development across the life span. Teacher candidates will recognize and understand the need to support a healthy development across the life span by exercise and sports.

SPSC 399
Physical Education in Schools
Credit Hours: 4
The course deals with the organizational framework, relevant pedagogical concepts and methodological strategies for physical education.

SPSC 400
Psycho-Social Aspect of Games Credit Hours: 3
This course provides the students with the opportunities and limitations of play, games and sport concerning correlates on personal and social behavior. In addition emphasis is put on valuing play, games and sport for enjoyment, challenge, performance, self-expression and/or social interaction.

Prerequisite
PSYC 205

SPSC 401
Performance Analysis & Assess Credit Hours: 3
This course will focus on the scientific basis of performance analysis and assessment. Central to this course will be on cardiovascular and resistance conditioning in the off-season, pre-season, and in-season. Human Performance Laboratory equipment will be used to measure, determine and interpret the results of various performance tests. An introduction and utilization of appropriate equipment for cardiovascular conditioning and resistance training will be examined.

Prerequisite
SPSC 206

SPSC 403
Exercise, Obesity & Diabetes
Credit Hours: 3

Prerequisite
SPSC 203

SPSC 404
Exercise & Heart Disease
Credit Hours: 3
Underlying and potential causes of developing heart disease and/or hypertension. Thorough knowledge of physiology and pathophysiology. Appropriate exercise prescription for individuals with heart diseases or hypertension. Parameters of exercise prescription. Heart disease as most common degenerative disease and the leading cause of death amongst adults. Knowledge of basic variations of heart disease. Emphasis on the identification of the heart disease, requirements of medical or no medical supervision, medications, exercise prescription, severity of heart or cardiovascular disease, monitoring of progress and changes, universal precautions, and competent monitoring and testing of heart patients. Practical experience in cardiac rehabilitation center or hospital setting (internship).

Prerequisite
SPSC 306

SPSC 405
Testing & Exercise Prescription
Credit Hours: 3
Strain and load-bearing capacity (maximum resilience) of human hard and soft tissues in sport activities. Epidemiological aspects of sport injuries with special focus on typical injury mechanisms Preventive and rehabilitative interventions. Causes of motor dysfunction (disorder) and their neuro-physiological characterization. Epidemiological aspects of bad posture and damaged posture with special interest on lack of Physical activity and wrong loading. Preventive effect of physical activity and sport and the aspect of the functionality of the human movement apparatus. Test batteries to analyze neuromuscular deficits (maximum strength tests, muscle function tests), preventive training methods (training of strength, coordination and flexibility) and movement strategies to prevent/improve deficits or overstrain; special programs for low back training.

Prerequisite
SPSC 206

SPSC 406
Concepts of Fitness & Nutrition
Credit Hours: 3
Introduction to basic health and fitness concepts and related topics, including CPR. Attention will be given to the development of individual fitness programs emphasizing such topics as aerobic and anaerobic exercises, nutrition, diet, stress management, and assessment methods and procedures. The course is a combination of lecture and laboratory activity. Examines the biological, social, and behavioral aspects of exercise and physical activity in older adults in order to develop programs for older adults to improve and/or maintain functional status. Methods of measuring physical activity and assessing functional status for older adults will also be considered and practiced. The course provides a foundation for working with older adults in programs and sites for exercise and physical activity.

Prerequisite
SPSC 303

SPSC 407
Sport Governance & Econ I
Credit Hours: 3
Resources economics in sport (role and substitution effects of fundraising, volunteers and subsidies) and their consequences for sport management. Economic aspects of sport media and media rights and their consequences for sport management. Economic impact of sport.

Prerequisite
SPSC 305

SPSC 409
Sport Mktg & Mgmt II
Credit Hours: 3

Prerequisite
SPSC 305

SPSC 410
Sport Governance & Econ II
Credit Hours: 3
Teaching PE in Secondary Schls
Credit Hours: 3
This course aims to develop teacher candidates’ capabilities as a teacher of all activities in primary school. The course also focuses on teacher candidates’ ability to understand and apply their pedagogical practices in a range of creative, competitive and challenging activities in preparation for teaching and learning at primary school level. Teacher candidates will recognize and understand how individuals at that age participate and respond in different situations and subsequently be able to begin to differentiate their teaching material and approach accordingly.

Prerequisite
SPSC 399

SPSC 449
Teaching PE in Primary Schools
Credit Hours: 3
This course aims to develop teacher candidates’ capabilities as a teacher of all activities in primary school. The course also focuses on teacher candidates’ ability to understand and apply their pedagogical practices in a range of creative, competitive and challenging activities in preparation for teaching and learning at primary school level. Teacher candidates will recognize and understand how individuals at that age participate and respond in different situations and subsequently be able to begin to differentiate their teaching material and approach accordingly.

Prerequisite
SPSC 449

SPSC 475
Teaching PE in Secondary Schls
Credit Hours: 3
This course aims to develop teacher candidates’ capabilities as a teacher of all activities in secondary school. The course also focuses on teacher candidates’ ability to understand and apply their pedagogical practices in a range of creative, competitive and challenging activities in preparation for teaching and learning at secondary school level. Teacher candidates will recognize and understand how individuals at that age participate and respond in different situations and subsequently be able to begin to differentiate their teaching material and approach accordingly.

Prerequisite
SPSC 399

SPSC 490
Sport Science Project
Credit Hours: 3
Students will experience how to organize and run a sport science project. Such project gives the opportunity to experience the whole life cycle of development, design as well as experiencing effectively the realization of a sport science project.

Prerequisite

STAT 101
Statistics I
Credit Hours: 3
Statistics covers basic concepts, population, types of data, sampling methods, tables and graphs. Descriptive statistics, basic probability concepts, random experiment, sample space, rules of probability, counting techniques. Conditional probability, independence, discrete and continuous random variables. Sampling distributions, the Student's t-distribution, F-distribution and Chi-square distribution, point estimation. Confidence intervals for a single population, testing hypotheses for a single population. For the lab one statistical software like SPSS, Minitab or Excel are used.

STAT 102
Statistics II
Credit Hours: 3
Chi-square procedures, the Chi-square distribution, Chi-square goodness of fit test, contingency tables, association, Chi-square test for independence, the F-distribution, the completely randomized design, multiple comparisons, the randomized block design, the two factor factorial design, Simpson's paradox, randomness. Inference about the regression quantities. Nonparametric statistics, the sign test and Wilcoxon signed rank test, the Kruskal-Wallis test, the Friedman test, the Spearman correlation coefficient. Statistical software like Minitab and Excel are used.

STAT 104
Intro to Applied Statistics
Credit Hours: 3
Collection of data; Concepts of sampling; Organization and graphical presentation; rates and ratios; measures of central tendency and dispersion; elementary probability; discrete and continuous distributions; sampling distribution, point and interval estimation, hypothesis testing for means, proportions and variances, simple linear regression and correlation, analysis of variance; analysis of categorical data.

STAT 153
Introduction to Statistics
Credit Hours: 3
Basic concepts and definitions of statistics terminology, organization and graphical presentation of statistical data; measures of central tendency and dispersion; percentiles and quartiles; basic probability concepts; discrete and continuous random variables and distributions; sampling distribution of the mean, t, Chi square and F distributions; interval estimation; hypothesis testing for means, proportions and variances.

Prerequisite
STAT 102

STAT 156
Statistics - Pharmacy
Credit Hours: 3
Descriptive concepts; organizing and drawing conclusion from data; basic probability; binomial, normal and t distributions; estimation and hypothesis testing; simple and multiple regression; one and two-way analysis of variance; survey design

STAT 211
Introduction to Probability
Credit Hours: 3

Prerequisite
(STAT 101 OR STAT 153) AND MATH 102

STAT 220
Business Statistics I
Credit Hours: 3
This course introduces descriptive graphical techniques and numerical measures; probability distributions and their application to stock markets, production reliability and queuing systems; sampling distributions; estimation; inference with application to market segmentation; simple linear regression and correlation with application to accounting, economics, banking and insurance.

Prerequisite
(ENGL 111 OR ENGL 202 TOEFL Internet-based Test 061 OR TOEFL, Inst Testing Prog 500 OR Int Eng Lang Test Syst-ILTS 5.5 OR TOEFL Computer-based Test 173 OR ENGL F073 OR ENGL 404)

STAT 221
Mathematical Statistics I
Credit Hours: 3

Prerequisite
STAT 211 OR STAT 251 AND MATH 251

STAT 222
Business Statistics II
Credit Hours: 3
This course examines multiple regression analysis with emphasis on model building in business and economics applied to the consumer, the firm and the markets, emphasis on model building in business and economics, the Excel functions, Brownian motion. Applications to stochastic financial modeling.

Prerequisite
(STAT 101 OR STAT 153) AND MATH 102

STAT 231
Introduction to Probability
Credit Hours: 3
Simple concepts and definitions of statistics terminology, organization and graphical presentation of statistical data; measures of central tendency and dispersion; percentiles and quartiles; basic probability concepts; discrete and continuous random variables and distributions; sampling distribution of the mean, t, Chi square and F distributions; interval estimation; hypothesis testing for means, proportions and variances.

Prerequisite
(STAT 102 OR STAT 153) AND MATH 102

STAT 241
Demography
Credit Hours: 3

Prerequisite
STAT 102

STAT 242
Stochastic Processes
Credit Hours: 3
Elements of stochastic processes; discrete time Markov chains; random walks; branching processes; Poisson processes; birth and death processes; queuing systems; renewal processes; basic theory of martingales and Brownian motion. Applications to stochastic financial modeling.

Prerequisite
(STAT 211 OR STAT 251) AND MATH 251

STAT 252
Mathematical Statistics II
Credit Hours: 3
Consistency, sufficiency, the exponential family of distributions, completeness of a family of distributions, theory of point estimation, criteria for judging point estimators. The mean squared error and the variance.

Prerequisite
STAT 102 AND STAT 211 OR STAT 251

STAT 261
Biostatistics
Credit Hours: 3
Methods of sampling in medical studies; summarizing and presenting medical data; demographic statistics; survival analysis; analysis of cross tabulation; inference for means; parametric and non-parametric with applications to medical data; multiple linear, logistic, Poisson and Cox regression applied to medical data; sample size determination; Statistical software like Minitab and Excel are used.

Prerequisite
STAT 102 OR STAT 151

STAT 262
Survival Analysis
Credit Hours: 3
This course introduces descriptive graphical techniques and numerical measures; probability distributions and their application to stock markets, production reliability and queuing systems; sampling distributions; estimation; inference with application to market segmentation; simple linear regression and correlation with application to accounting, economics, banking and insurance.

Prerequisite
STAT 221

STAT 332
Design of Experiments
Credit Hours: 3
Principles of Experimental Design; Completely Randomized designs; Randomized Complete Block designs; Latin Square designs; Incomplete Block designs; Factorial Experiments; Split Plot: Analysis of Covariance. Statistical software like Minitab, SPSS and R are used.

Prerequisite
STAT 102 AND STAT 211 OR STAT 251

STAT 333
Time Series
Credit Hours: 3
This course discusses the analysis of time series data and their use in prediction and forecasting. The course presents various methods including time series regression, smoothing techniques and the Box-Jenkins methodology. The emphasis is on the applied side of the subject utilizing statistical packages like R, SPSS and Minitab.

Prerequisite
STAT 231 OR STAT 258

STAT 341
Actuarial Statistics I
Credit Hours: 3
Statistical software like Minitab, SPSS and R are used.

Prerequisite
STAT 102 AND STAT 211 OR STAT 251

STAT 343
Actuarial Statistics II
Credit Hours: 3

Prerequisite
STAT 341

STAT 344
Reliability and Life Testing
Credit Hours: 3
Reliability Concepts; Component and System Reliability; Notions of Aging; Lifetime Distributions and Hazard Functions; Types of Censoring; Nonparametric Estimation of Reliability Function; Kaplan-Meier and Nelson Estimators; Parametric Inference Procedures for Exponential, Weibull and Extreme Value Distributions; Proportional Hazards Regression Model; Accelerated Life Testing; Stress-Strength Models. Statistical software like Minitab, SPSS and R are used.

Prerequisite
STAT 322
Primary theoretical positions on translation equivalence are presented, assessed and related to the practical task of translating.

The course introduces students to more advanced theoretical models of translation: Formal equivalence (Catford), Dynamic equivalence (Nida), Pragmatic (Koller), Textual and Contextual (Beaugrande). These are used in translating a variety of texts and genres, predominantly from Arabic into English, and gives the students the tools to identify, analyze and resolve complex translation problems and to develop a rational approach to the task.

The course offers students the opportunity to be trained in the practice of translating a variety of authentic texts that appear in print or in other aural or visual media, with emphasis on issues involved in international crises, cooperation, development and government structure. Students will explore translation strategies related to the media and will be encouraged to examine practical problems, which are regularly encountered in the process of translating news reports, editorials and headlines.

This course is designed to introduce students to the theoretical models of translation: Formal equivalence (Catford), Dynamic equivalence (Nida), Pragmatic (Koller), Textual and Contextual (Beaugrande). These are used in translating a variety of texts and genres, predominantly from Arabic into English, and gives the students the tools to identify, analyze and resolve complex translation problems and to develop a rational approach to the task.

The course offers students the opportunity to be trained in the practice of translating a variety of authentic texts that appear in print or in other aural or visual media, with emphasis on issues involved in international crises, cooperation, development and government structure. Students will explore translation strategies related to the media and will be encouraged to examine practical problems, which are regularly encountered in the process of translating news reports, editorials and headlines.

The course provides focused training in the translation of texts in the fields of international relations, law and journalism (social sciences and the humanities) from and into English and Arabic. The treatment of such texts will be guided by theoretical input covered in TRAN 201 and more importantly by input from the area of Terminology and its application in these fields.

This course is designed to introduce students to the theoretical models of translation: Formal equivalence (Catford), Dynamic equivalence (Nida), Pragmatic (Koller), Textual and Contextual (Beaugrande). These are used in translating a variety of texts and genres, predominantly from Arabic into English, and gives the students the tools to identify, analyze and resolve complex translation problems and to develop a rational approach to the task.

The course offers students the opportunity to be trained in the practice of translating a variety of authentic texts that appear in print or in other aural or visual media, with emphasis on issues involved in international crises, cooperation, development and government structure. Students will explore translation strategies related to the media and will be encouraged to examine practical problems, which are regularly encountered in the process of translating news reports, editorials and headlines.

This course is designed to introduce students to the theoretical models of translation: Formal equivalence (Catford), Dynamic equivalence (Nida), Pragmatic (Koller), Textual and Contextual (Beaugrande). These are used in translating a variety of texts and genres, predominantly from Arabic into English, and gives the students the tools to identify, analyze and resolve complex translation problems and to develop a rational approach to the task.

The course offers students the opportunity to be trained in the practice of translating a variety of authentic texts that appear in print or in other aural or visual media, with emphasis on issues involved in international crises, cooperation, development and government structure. Students will explore translation strategies related to the media and will be encouraged to examine practical problems, which are regularly encountered in the process of translating news reports, editorials and headlines.
This course aims to introduce the students to important stylistic aspects of Arabic rhetoric and its terminology and to compare it with other rhetorical terms in English, so that the student will be able to translate metaphorical and allegorical texts effectively. The course emphasizes the three most important fields of rhetoric in the Arabic language and their English counterparts, which are: semantics, rhetoric, and figures of speech. The delivery of this course relies on political texts from Arabic and English literature emphasizing rhetorical devices, figurative language, stylistic and other terminology.

TURK 101
Turkish 1
Credit Hours: 3
This course aims to introduce the Turkish language to beginning students, and develop oral and written skills for both comprehension and expression. Language skills to be emphasized include: understanding, reading, writing, and speaking. The course provides a foundation for learning the basics of Turkish, through grounding in the structure of sentences and current usage with the emphasis on oral communication. The course focuses equally on listening, speaking, reading, and writing.

TURK 201
Turkish 2
Credit Hours: 3
This course is a continuation of 101. It is designed to improve different aspects of language and writing skills. It aims to improve students’ conversational skills; to provide a variety of readings for written comprehension; to develop a good grammar background; to improve listening skills; and to introduce students to some examples of Turkish culture.

UNIV P100
Skills for University Success
Credit Hours: 1 (Note: This course credit may not be used to satisfy credit hour requirements of degree programs)
This course is designed to introduce students to the university and to assist them in developing essential skills and learning strategies needed for effective study and success at the university. The course covers topics including introduction to the University, skills for academic success, and campus and community engagement. The course emphasizes informal classroom settings, discussions, debates, and active engagements through different type of activities.

USUL 401
Rhetoric for Translators
Credit Hours: 3
This course aims to introduce the students to important stylistic aspects of Arabic rhetoric and its terminology and to compare it with other rhetorical terms in English, so that the student will be able to translate metaphorical and allegorical texts effectively. The course emphasizes the three most important fields of rhetoric in the Arabic language and their English counterparts, which are: semantics, rhetoric, and figures of speech. The delivery of this course relies on political texts from Arabic and English literature emphasizing rhetorical devices, figurative language, stylistic and other terminology.

USUL 301
Principles of Exegesis
Credit Hours: 3
Educating the students on the basic scientific principles of Tafsir, the characteristics of an exegete, the principles that he needs to adhere to and the views of various schools of thought and methodologies with regard to the exegesis of the Quran.

USUL 302
Islamic Theology
Credit Hours: 3
Introducing the student to Ilm al-kalam (Muslim theology), the reasons for its rise, significant theological sects, their views and methodologies. Creating harmony between the various theological schools after thoroughly understanding their thought.

USUL 308
Legislative Texts of Hadith
Credit Hours: 3
This course instructs the student on the ways to derive Islamic legal judgements from their original sources and rulings of Shariah regarding food, drinks and human rights in Islam. It also inculcates in students the readiness to follow the rulings of Shariah in letter and spirit.

USUL 335
Contem. Studie in Quran & Suna
Credit Hours: 3
Introducing the student to contemporary studies on the Quran and Sunnah in the Middle East. Enabling the student to thoroughly comprehend some of the doubts being raised around the Quran and Sunnah in their various dimensions in an academic manner, and their academic rebuttal as well. The students will also be introduced to the modern and contemporary methodologies being employed in the study of the Quran and Sunnah.

USUL 403
Methodology of Muhadditheen
Credit Hours: 3
This course is designed to educate the students the manner of Takhreeh of ahadith with regard to their place in the hadith sources and then to be able to judge the narrations both with respect to their text and chain of narration.

USUL 405
Miracle of the Quran
Credit Hours: 3
Introduce the student to the concept of the inimitability of the Quran and its various modes, its significance and role in the acknowledgement of the source of revelation and employing Quranic objectives and understandings in the light of the requirements of the modern period.

USUL 407
Thematic Exegesis
Credit Hours: 3
Enable the student to understand the objectives of the Quran through the study of juristic verses from surat Al-Baqarah, Al-Isra and Al-Nisa’ and the views of scholars of juristic schools of thought. Moreover, it aims at teaching the application of the text to the current situation. Derivation of legal rulings from Quranic verses.

USUL 409
Islamic Philosophy
Credit Hours: 3
To provide students an understanding of the history of Islamic philosophy and various philosophical schools and theories in Islam.

USUL 439
Contemporary Muslim World
Credit Hours: 3
Acquaint the students with Muslim societies of the world through their religious, social and political culture, define the terms of ‘Islamic world’ and ‘Muslim Ummah’, the cultural diversity of the Muslim world, and assists the students in understanding the challenges faced by the contemporary world and the stance of the Muslim world in this regard.