2017-2018 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 programs offered 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 and in graduate 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 goals. Over sixty specializations from nine 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, professionalism, and common purpose.

University life offers much more than an education and 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 lifelong 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 its students.

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

Hassan Rashid Al-Derham
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.

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H.E. Sheikh Dr. Abdullah Bin Ali Al-Thani
Managing Director, Qatar Center of Leadership and Vice Chairman of Board of Regents and CEO

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Chairman and Managing Director, Qatar International Islamic Bank

Dr. Hassan Rashid Al-Derham
President, Qatar University

Ex-officio

General Secretary
Dr. Ibrahim Abdulla I Al-Ansari
Secretary General, QU Board of Regents

President
Dr. Hassan Rashid Al-Derham
Qatar University’s 6th President. Dr. Hassan Rashid Al-Derham is recognized for playing a major role in advancing research activity at both university and national levels.

Dr. Al-Derham assumed the position of President on 15 June 2015. He was previously Vice-President for Research from 2007, during which he guided QU to its current position as leader of research excellence in the GCC region, which was enhanced by its continuous success in winning the largest percentage of grants in the National Priorities Research Program (NPRP) and Undergraduate Research Experience Program (UREP) under the Qatar National Research Fund (QNRF).

He also served in several earlier roles at QU, including Associate VP for Research and Head of Civil Engineering at the College of Engineering.

He holds a PhD and Post-Graduate Diploma in Construction Project Management from University of Glamorgan (currently University of South Wales), UK which followed obtaining a Master’s Degree in Civil Engineering from Georgia Tech, USA. His undergraduate is in Architectural Engineering from North Carolina Agriculture and Technical State University, USA.

During his term as VP for Research, Dr. Al-Derham successfully developed and implemented the organization’s research policies, procedures, and priorities, as well as an ambitious research road map fielding strategic national priorities.

Additionally, under his leadership, several research centers were initiated including the Gas Processing Center, Qatari Road Safety Studies Center, Qatar Mobility Innovations Center, KINDI Lab for Computing Research, Laboratory Animal Research Center, and the Biomedical Research Center. He also led the inauguration of the university Research Complex.

Dr. Al-Derham’s research interests include construction productivity, project optimization, legal contracts and procurement. In 2009, along with his research team, he won Best Paper of the Year in ASCE Journal of Construction Engineering and Management. He is also a member of several professional international societies and organizations.

Vice Presidents
Dr Khaidal Al-Khatar
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-Khatar received his Bachelor degree in Accounting from Qatar University, MBA-Accounting from Saint Louis University and a Doctor of Philosophy in Accounting from Dundee University. He has served as the Acting Dean of College of Business and Economics from 2003 to 2005, as the Director of the MBA program from 2003 to 2005, and as the Vice Dean from 2003 to 2005. He is currently the Dean of Academic Affairs at Ahmed bin Mohamed Military College. He received the State Incentive Award in 2012 in the field of accounting. He has participated in many committees at Qatar University.
Dr. Khalid Al-Khanji 
Vice President for Student Affairs 
The VP for Student Affairs is responsible for the general supervision of Student Affairs Sector at Qatar University, including the functions of admission, registration, student life and services, campus activities, and student development and success. Dr. Khalid Al-Khanji held the position of Vice President for Student Affairs at Hamad Bin Khalifa University in 2012 where he monitored and oversaw student affairs administration, including recruitment, admissions and registration, student housing as well as certain aspects of student life. He held the position of senior consultant in the Corporate Development Bureau of Al Jazeera Network, and before that, was the Director of the Student Counseling Center at Qatar University where he worked as an Assistant Professor at the Department of Psychological Sciences.

Dr. Al-Khanji received his bachelor’s degree in physics (Materials Science) from the University of Alexandria, Egypt in 2001, and joined the Department of Physics at the QU in the same year. Prof. Al-Maadeed has much experience and international recognition in the field of polymers and characterization, and nanotechnology expertise. He has more than 120 research papers in international journals and conferences, and was member of several committees in the field of science and administration. She is an active member of distinguished associations in her field of science and administration.

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<td>College of Arts &amp; Science</td>
<td>44034500</td>
<td><a href="mailto:cas@qu.edu.qa">cas@qu.edu.qa</a></td>
</tr>
<tr>
<td>Arabic for Non-Native Speakers Program</td>
<td>44034584</td>
<td><a href="mailto:arabicprogram@qu.edu.qa">arabicprogram@qu.edu.qa</a></td>
</tr>
<tr>
<td>Department of Arabic Language</td>
<td>44034820</td>
<td><a href="mailto:headdepanarabic@qu.edu.qa">headdepanarabic@qu.edu.qa</a></td>
</tr>
<tr>
<td>Department of Biological &amp; Environmental Sciences</td>
<td>44034530</td>
<td><a href="mailto:biology@qu.edu.qa">biology@qu.edu.qa</a></td>
</tr>
<tr>
<td>Department of Chemistry &amp; Earth Sciences</td>
<td>44034650</td>
<td><a href="mailto:headdepechemistry@qu.edu.qa">headdepechemistry@qu.edu.qa</a></td>
</tr>
<tr>
<td>Department of English Literature and Linguistics</td>
<td>44034900</td>
<td><a href="mailto:malgheeder@qu.edu.qa">malgheeder@qu.edu.qa</a></td>
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<td>Department of Health Sciences</td>
<td>44034800</td>
<td><a href="mailto:health@qu.edu.qa">health@qu.edu.qa</a></td>
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<td>Department of Humanities</td>
<td>44034700</td>
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<td>Department of International Affairs</td>
<td>44034674/9441</td>
<td><a href="mailto:iap@qu.edu.qa">iap@qu.edu.qa</a></td>
</tr>
<tr>
<td>Department of Mass Communication &amp; Information Science</td>
<td>44034860</td>
<td><a href="mailto:headdepemasscommunication@qu.edu.qa">headdepemasscommunication@qu.edu.qa</a></td>
</tr>
<tr>
<td>Department of Mathematics, Statistics &amp; Physics</td>
<td>44034600</td>
<td><a href="mailto:math-physics@qu.edu.qa">math-physics@qu.edu.qa</a></td>
</tr>
<tr>
<td>Department of Psychological Sciences</td>
<td>44035200</td>
<td><a href="mailto:psych@qu.edu.qa">psych@qu.edu.qa</a></td>
</tr>
<tr>
<td>Department of Social Sciences</td>
<td>44034750</td>
<td><a href="mailto:headdepsocialsci@qu.edu.qa">headdepsocialsci@qu.edu.qa</a></td>
</tr>
<tr>
<td>Sports Science Program</td>
<td>44034960</td>
<td><a href="mailto:sportsscience@qu.edu.qa">sportsscience@qu.edu.qa</a></td>
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<tr>
<td>College of Business &amp; Economics</td>
<td>44035000</td>
<td><a href="mailto:bus-econ@qu.edu.qa">bus-econ@qu.edu.qa</a></td>
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<tr>
<td>Department of Accounting and Information Systems</td>
<td>44035051</td>
<td><a href="mailto:accounting@qu.edu.qa">accounting@qu.edu.qa</a></td>
</tr>
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<td>Department of Finance and Economics</td>
<td>44035080</td>
<td><a href="mailto:fin-econ@qu.edu.qa">fin-econ@qu.edu.qa</a></td>
</tr>
<tr>
<td>Department of Management and Marketing</td>
<td>44035053/5034</td>
<td><a href="mailto:mamark@qu.edu.qa">mamark@qu.edu.qa</a></td>
</tr>
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<td>44035100</td>
<td><a href="mailto:dean-edu@qu.edu.qa">dean-edu@qu.edu.qa</a></td>
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<td>College of Engineering</td>
<td>44034100/4104</td>
<td><a href="mailto:dean-eng@qu.edu.qa">dean-eng@qu.edu.qa</a></td>
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<tr>
<td>Department of Architecture and Urban Planning</td>
<td>44034340</td>
<td><a href="mailto:architecture-urban@qu.edu.qa">architecture-urban@qu.edu.qa</a></td>
</tr>
<tr>
<td>Department of Chemical Engineering</td>
<td>44034130</td>
<td><a href="mailto:che@qu.edu.qa">che@qu.edu.qa</a></td>
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<tr>
<td>Department of Civil Engineering</td>
<td>44034170</td>
<td><a href="mailto:civil@qu.edu.qa">civil@qu.edu.qa</a></td>
</tr>
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<td>Department of Computer Science and Engineering</td>
<td>44034210</td>
<td><a href="mailto:cse@qu.edu.qa">cse@qu.edu.qa</a></td>
</tr>
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<td>Department of Electrical Engineering</td>
<td>44034200</td>
<td><a href="mailto:electrical@qu.edu.qa">electrical@qu.edu.qa</a></td>
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<tr>
<td>Department of Mechanical Engineering</td>
<td>44034300</td>
<td><a href="mailto:mecheng@qu.edu.qa">mecheng@qu.edu.qa</a></td>
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<td>College of Law</td>
<td>44035252</td>
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<td>44035550</td>
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<td>College of Sharia &amp; Islamic Studies</td>
<td>44034400</td>
<td><a href="mailto:sharia@qu.edu.qa">sharia@qu.edu.qa</a></td>
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<td>12-13 qa</td>
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<td>44034470</td>
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<td>Environmental Studies Center</td>
<td>44033909</td>
<td><a href="mailto:esc@qu.edu.qa">esc@qu.edu.qa</a></td>
</tr>
<tr>
<td>Enrollment Services One Stop Section</td>
<td>44037979</td>
<td><a href="mailto:onestop@qu.edu.qa">onestop@qu.edu.qa</a></td>
</tr>
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<td><a href="mailto:Finance@qu.edu.qa">Finance@qu.edu.qa</a></td>
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<td><a href="mailto:housing@qu.edu.qa">housing@qu.edu.qa</a></td>
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<td>Core Curriculum Program</td>
<td>44034434/4444</td>
<td><a href="mailto:quccprogram@qu.edu.qa">quccprogram@qu.edu.qa</a></td>
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<td>Internal Audit Department</td>
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</tr>
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<td>44030010</td>
<td>labib@<a href="mailto:g@qu.edu.qa">g@qu.edu.qa</a></td>
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<td>44030988</td>
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<td>Office of Academic Research</td>
<td>4403919</td>
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<td><a href="mailto:qucscholarships@qu.edu.qa">qucscholarships@qu.edu.qa</a></td>
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<td><a href="mailto:president@qu.edu.qa">president@qu.edu.qa</a></td>
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<td>Registration Department</td>
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<td><a href="mailto:registration@qu.edu.qa">registration@qu.edu.qa</a></td>
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<td>4403796/5775</td>
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<td></td>
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<td>Social and Economic Survey Research Institute (SESRI) Office</td>
<td>44030020</td>
<td><a href="mailto:sesri@qu.edu.qa">sesri@qu.edu.qa</a></td>
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<td>4403800</td>
<td><a href="mailto:studentactivities@qu.edu.qa">studentactivities@qu.edu.qa</a></td>
</tr>
<tr>
<td>Aquatic Center</td>
<td>4403830</td>
<td><a href="mailto:Aquatic@qu.edu.qa">Aquatic@qu.edu.qa</a></td>
</tr>
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<td>Sports and Recreational female Section</td>
<td>4403828</td>
<td><a href="mailto:sports@qu.edu.qa">sports@qu.edu.qa</a></td>
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</tr>
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<td><a href="mailto:studenthelp@qu.edu.qa">studenthelp@qu.edu.qa</a></td>
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<td>Parents Program Unit</td>
<td>4403768/5967</td>
<td><a href="mailto:parents@qu.edu.qa">parents@qu.edu.qa</a></td>
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<td>Student Services Department</td>
<td>4403838</td>
<td><a href="mailto:studentservices@qu.edu.qa">studentservices@qu.edu.qa</a></td>
</tr>
<tr>
<td>International Students Section</td>
<td>4403868/3869</td>
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<tr>
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<td><a href="mailto:primaryservices@qu.edu.qa">primaryservices@qu.edu.qa</a></td>
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<tr>
<td>Parents Program Unit</td>
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<tr>
<td>Transportation Office</td>
<td>4403666</td>
<td><a href="mailto:transportation@qu.edu.qa">transportation@qu.edu.qa</a></td>
</tr>
<tr>
<td>Vice President and Chief Academic Officer</td>
<td>44034000</td>
<td><a href="mailto:vpadmin@qu.edu.qa">vpadmin@qu.edu.qa</a></td>
</tr>
<tr>
<td>Vice President and Chief Financial Officer</td>
<td>44033100</td>
<td><a href="mailto:vpadmin@qu.edu.qa">vpadmin@qu.edu.qa</a></td>
</tr>
<tr>
<td>Vice President for Institutional Planning &amp; Development</td>
<td>4403670</td>
<td><a href="mailto:vpipd@qu.edu.qa">vpipd@qu.edu.qa</a></td>
</tr>
<tr>
<td>Vice President for Research</td>
<td>4403900</td>
<td><a href="mailto:vpr@qu.edu.qa">vpr@qu.edu.qa</a></td>
</tr>
<tr>
<td>Vice President for Students Affairs</td>
<td>4403700</td>
<td><a href="mailto:vpsstudents@qu.edu.qa">vpsstudents@qu.edu.qa</a></td>
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### Academic Calendar for 2017-2018

#### Qatar University

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- **Start of semester for faculty members**: Last day to withdraw from semester
- **End of semester for faculty members**: Start of Summer

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- **Start of semester for administrators**: Last day to withdraw from a course
- **End of semester for administrators**: Start of summer for faculty members & administrators

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- **Last day in class before finals**: End of classes of Fall and Spring
- **End of classes**: Start of registration or add/drop
- **Start of registration or add/drop**: Final exams days
- **End of registration or add/drop**: Holidays
- **Fall**: Start of Winter
- **Spring**: End of Winter

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*Last Update: 15 Jan 2018*
Academic Advisor
Faculty member/administrator assigned to counsel students on academic matters. The student is called the "adviser".

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.

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.

Co-requisite
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
Methodical examination and reviewing of students' compliance with their degree requirements.

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.

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 diploma student who has achieved a cumulative GPA of 2.50 or higher. The academic standing of a graduate student who achieved a minimum cumulative GPA of 3.00.

GPA
Grade point average of the grades of QU courses within a specific level of study.

Grade Points
Numerical value associated with each grade.

Graduate Student
A student who is working toward completion of a master's or doctorate level degree.

Hold
A mechanism preventing a student from either registering in classes or receiving a University service. More common hold types include admission holds, department holds, advisor holds, and tuition holds. The student should see the department that placed the hold for resolution.

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

Re-enrollment
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-seekers or non-degree students.

Student Schedule
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.

Study Away
A QU student who is taking courses at another university during a regular semester.

Transcript
The official result of the student's academic achievement.

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 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.

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

DISCLAIMER
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.

The university is comprised of eight colleges: Arts and Sciences (CAS), Business and Economics (CBE), Education (CED), Engineering (CENG), Law (LAWC), Pharmacy (CPH), Sharia and Islamic Studies (CSIS), and a new College of Medicine (CMED), offering 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 33 to date: 25 Masters, four Diplomas, one PharmD, and three PhDs, fielding current and emerging issues relevant to Qatar and the Gulf.

They are distributed by college:
- Arts and Sciences: PhD in Biological & Environmental Sciences; PhD in Gulf Studies; Masters’ in Biomedical Sciences, Environmental Sciences, Materials Science & Technology, Gulf Studies, Public Health, Applied Statistics, and Arabic Literature & Language.
- Business and Economics: MBA; Master’s in Accounting and Master of Science in Marketing.
- Education: M. Ed in Educational Leadership; M. Ed in Special Education; Master of Arts in Curriculum, Instruction, and Assessment. Diploma programs include Early Childhood Education, Primary Education, Secondary Education, and Special Education.
- Law: Master of Law in Public Law; Master of Law in Private Law.
- Medicine: Medical Doctor (MD)
- Pharmacy: MSc Pharmacy, and Doctor of Pharmacy (PharmD).
- Sharia and Islamic Studies: Masters in Quranic Sciences & Exegeses, and Fiqh & Usul Al Fiqh.

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 President, Prof Sheikh Abdullah Al-Mannad, is a QU graduate of the Class of 1977. Also among its distinguished alumni are 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 program in 2000, with a focus on three main goals: autonomy, academic reform, and administrative and financial reform. The objective was to modernize its academic curriculum 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, QU President Prof Sheikha Abdulla Al-Suwaidi, and the Office 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.

The 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 of focus: nurture student experience, optimize institutional effectiveness, build international recognition, and recognize scholarly excellence.

An important aspect of the reform exercise was QU’s strengthened commitment to its students. With the implementation of a number of initiatives and strategies such as a refocused Student Learning Support engagement, motivation and success experience, QU strengthens its investment in student academic probation and retention policies on student academic probation and retention such as a reformulated Foundation Program, amended implementation of a number of initiatives and strategies and a self-study to gauge students’ first-year campus experience. QU strengthens its investment 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 training in campus counseling services. They form part of the organization’s growth strategy which puts each student’s interests at the heart of its plans by actively supporting 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 (QUSRIB), which was established to serve and act in the interest of the students and the QU community.

Academic System

This is based on the US semester system of two periods of study in Fall and Spring, and course work measured in credit hours. The academic year comprises 16 weeks of study and 10 weeks of study for the summer sessions. Course requirements are established depending on the scope of the course.

The normal duration of the course of study at QU may vary according to each program’s requirements. However, the length of study may not exceed eight years from the date of enrollment at the undergraduate level and four years from the date of enrollment at the graduate level. This excludes the period spent in the Foundation Program.

A degree is awarded to each student who has fulfilled all the academic requirements of his/her program with a minimum cumulative GPA of 2.00 on a 4 point scale. Graduation ceremonies are held annually.

Language of Communication

Starting Spring 2012, several changes on language provision at QU came into effect. As a result, students joining Arabic-taught programs are exempt from Foundation requirements. In addition, additional degree programs are being offered in Arabic, including International Affairs, 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 that students enroll in core curriculum courses. Information about the core curriculum can be found on QU website.

The university continues to uphold its responsibility to promote the Arabic language, history, culture, and traditions through programs offered by the College of Sharia & Islamic Studies, the Arabic Language department in College of Arts & Sciences, and at celebratory events such as Arabic Language Day and Cultural Village.

Additionally, QU extends this role through its Arabic for Non-Native Speakers (ANNS) program, at which students from around the world participate in an intensive, year-long Arabic language course, in tandem with visits to cultural and historical sites in Qatar. The Program offers Beginner, Intermediate and Advanced levels, focusing on language functions and communicative skills of speaking, reading, writing and listening comprehension.

Research

The institution considers research a priority area to address the needs and opportunities surfacing in its student, 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 its research funding, which amounted to USD 250 million in 2011-2012 and increased by over US$56 million in 2012-2013.

The institution’s commitment to promoting a culture of research is also emphasized through its annual Qatar University Research University Research Forum (QUREF), and the introduction 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 a few of the research projects at QU that are geared towards addressing issues that present themselves in a country that is rapidly expanding.

QU continued to top winner in the award cycles of the National Priorities Research Program (NPRP) and Undergraduate Research Experience Program (UREP) under the Qatar National Research Fund (QNRF). In the 7th NPRP cycle, QU researchers won the highest number of awards—62 (38.3%)—out of 162 awarded proposals from organizations and institutions in Qatar.

The organization also achieved a success percentage of 31.9% in the 13th cycle of UREP, gaining awards for 29 out of 91 submitted student/faculty proposals.

The institution has also partnered 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.

Students

Qatar University prides itself on the quality of its students and alumni. It started with 150 students in 1973, and grew to a total of approximately 15,000 in the academic year 2012-2013. The University is committed to ensuring that campus life is an enriching environment for encouraging volunteerism, civic responsibility, and leadership.

QU students actively participate in a wide range of national events and community service activities, such as QATD 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, have become staples on the academic calendar.

The annual Study Abroad Fair organized by the Scholarships & Partnerships Office is a way in which the organization has encouraged students to pursue further studies at prestigious international universities.

In line with the organization’s commitment to Qatarization, 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 contribute to the nation’s development 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 students.
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.

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, 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.
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 traditional and modern design. The Qatar campus design is a unique blend of traditional and modern design. Students from all over the world are provided with a wide range of services to enrich their academic and social experiences.

INFORMATION TECHNOLOGY
Information Technology Services are committed to providing 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 email, 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.
- **myYBanner**: Banner is an effective information system that provides secure access to the students and faculty as a streaming media system.
- **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.
- **Help Desk**: The IT Services Helpdesk assists students, faculty and staff with questions related to teaching and learning facilities equipped with a Lecture Capture system that is integrated with the Blackboard system. Captured lectures are available to the students and faculty as a streaming media file via Blackboard after each class. Lectures are posted permanently, so students can refer back to a particular lecture at any time before their tenure at QU.
- **Blackboard**: Blackboard Learning System is a course management system that provides students, faculty and staff with a course registration, Drop and Add services, class schedules, grade viewing, and online tuition payment.
- **myBanner**: Banner is an effective information system that provides secure access to the students and faculty as a streaming media system.

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 Qatari National (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.

Stationary Center
Located at the Food Court Building in the women’s section and sells a wide selection of stationery and classroom supplies, study and research aids, paint and art materials, and books in Arabic and English, as well as magazines and computer equipment. For more information, please visit us at: http://www.qu.edu.qa/students/services/general_services/index.php

Copying and Printing Centers and self service photocopying
Provided for students at several locations around the men’s and women’s sections of campus. For more details about the services offered and prices, please visit us at: http://www.qu.edu.qa/students/services/general_services/index.php

Internet Lounges
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 9:00 am to 5:00 pm. For more information, please see: http://www.qu.edu.qa/students/services/general_services/index.php

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

Lost and Found
The Lost and Found service makes every effort to oversee the care-taking and delivery of lost and found items inside QU campus. For more information, please see: http://www.qu.edu.qa/students/services/lost-and-found.php

Textbooks
The Textbook Hall provides faculty and students with textbooks and e-books designed to support their course curricula. As part of a University-wide initiative to boost learning, the acquisition and enhance research, QU provides a subsidy that equals 50% of the total price for textbooks and e-books ordering 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 preferences. The women’s section has a Food Court and 14 cafeterias. The men’s section has 9 separate cafeterias. There are international cafés on campus, including Starbucks, Coffee Time, Coffee Bean & Tea Leaf and Costa.

Main office: Food Court, Mezzanine Floor, Office #2 Phone: 4403-3865 /5970 /5975 Email: foodservices@qi.edu.qa Twitter: @QUFSS Facebook: www.facebook.com/QUFFS Working hours (Food Services Section): Sunday – Thursday, 7:30am – 2:30pm

Dining Outlets: Working hours (Dining Outlets):

<table>
<thead>
<tr>
<th>Cafeteria</th>
<th>Opening and Closing Time</th>
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</thead>
<tbody>
<tr>
<td>Women’s Main Building</td>
<td>Rm 106</td>
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<tr>
<td></td>
<td>Rm 161</td>
</tr>
<tr>
<td>College of Arts and Sciences</td>
<td>Rm 1</td>
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<tr>
<td></td>
<td>Rm 2</td>
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<tr>
<td>Women’s Activities Building</td>
<td>7:00 am</td>
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<tr>
<td></td>
<td>Parking Lot</td>
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<td></td>
<td>Sports Facility Building</td>
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<td></td>
<td>College of Business &amp; Economics</td>
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<td></td>
<td>College of Education</td>
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<tr>
<td></td>
<td>Women’s Activities Building</td>
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<tr>
<td></td>
<td>Food Court</td>
</tr>
<tr>
<td></td>
<td>New Library</td>
</tr>
</tbody>
</table>

Men’s Main Building | Rm 158 | 7:00 am – 7:00 pm |
|                  | Rm 158 | 7:00 am – 4:30 pm |
| Men’s Activities Building | 7:00 am | 6:00 pm |
| Men’s Foundation Building | 7:00 am | 4:00 pm |
| College of Business & Economics | 7:00 am | 8:30 pm |
| Water Complex | 9:30 am | 9:00 pm |
| New Library | 7:00 am | 9:30 pm |
Driven by the needs of potential technological applications, knowledgebase in design, synthesis, and characterization, CAM is the hub of materials science and engineering. The Center has been established as a multi-disciplinary Center of Advanced Materials (CAM) and as respected research and consultation providers for units which are highly active, both for university academia, Qatar University has a number of research centers and faculty mailing needs, whether they are sending urgent or which offers a variety of solutions to meet the student or The on-campus Post Office is the branch of Q-Post, rooms are appropriately furnished for prayer services and does not have a central mosque or prayer facility, prayer traditions and heritage. Although the women's campus of the campus, and a beautiful reminder of the country›s spiritual center, but a striking visual landmark at the edge services/campus-card

http://www.qu.edu.qa/students/campus-card

The Student Campus Card is part of the One Card program, and a pioneer in the area of cryptography; signifying the class research while serving the QU community, as researchers and students, and leveraging existing local and international partnerships. KINDI conducts world- class research within the QU community as well as Qatar Society. The name KINDI is an acronym for Knowledge Intensive, Networked Data and Interdisciplinary research, which are the broad themes of the Center. KINDI is also the name of a renowned Muslim Scientist who was a physician and a pioneer in the area of cryptography; signifying the two KINDI areas of strength in bio-health informatics and cybersecurity.

Central Laboratory Unit (CLU) The CLU provides analytical, 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.

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 and sponsor policies and procedures and promoting technology throughout the University.

Office of Quality Management (OQM) In conjunction with the Office of the Vice President for Research, the senior management and staff of units and affiliated with the Office of VP for Research, the OQM seeks to enhance the organization's effectiveness, expand its capability, and engender a culture of continual improvement and performance excellence. The OQM was established to ensure consistent management policies and practices, establish a linkage between the testing and quality control results, encourage best practice sharing 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 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 on issues related to the development and welfare of the Qatari society in the social, economic, and cultural areas. With a sophisticated Survey Operations Unit and an experienced staff of researchers and data analysts, the SESRI serves the national and regional studies utilizing best practices in survey research. It assists faculty and interested students with a platform to collaborate on diverse projects with topics ranging from education and values to gender, health and labor migration.

Students wishing to pursue research at the university are encouraged to visit and learn more about the centers, and find experienced instructors to develop projects that suit their goals. OUI offers a number of grants and funding resources, in addition to being a leading provider of external grants and recognition from organizations such as NPPR and UREP. Additional information is available on the OUI website at: http://www.qu.edu.qa/offices/research/index.php

Laboratory Animal Research Center (LARC) The LARC is the first of its kind at Qatar, a state-of-the-art, newly designed, pathogen-free (SPF) center which supports best practices and advancements in laboratory animal research. The LARC offers great opportunities for researchers, faculty, and students to utilize specific pathogen-free environments as a valuable asset to research and demonstrating scientific data in the biological, biomedical and medical fields. Typical uses include a wide range of applications, such as studying biological processes, investigating the causes of diseases, and testing new treatments and therapies for the wellbeing of humans and animals. The LARC is home to many programs in human use and care of laboratory animals. All operations and procedures at LARC are regulated by the national, local and institutional ethical regulations.

Center of Continuing Education (CCE) The Center of Continuing Education (CCE) at Qatar University supports the individual developmental needs of its community members. OUI with its organization partners in Qatar society supports the community’s needs, institutions and individuals, and is continuously working towards the advancement of their scientific and technical capabilities.

The Center of Continuing Education identifies and meets the training needs of the public through specialized training programs, in addition to preparedness programs or professional and international certification, enabling the greater community to benefit from the expertise, experience and resources available at the University. The programs and training courses are offered in both Arabic and English, depending on the nature and context of the respective course. Moreover, CCE offers five different language courses: General English, Business English, Arabic, French, Spanish, and Turkish, Chinese, and Japanese. As a leading provider of non-academic programs in Qatar, CCE collaborated with more than 30 organizations in Qatar and has provided more than 4000 training hours to more than 2000 participants in over 150 courses, including nine internationally-accredited professional certification programs during the academic year 2016-2017. Since its inception, CCE has collaborated with Qatari academic departments to provide bespoke continuing education courses and training workshops. These training
programs have gained the recognition of the community as reflected by the growing demand for more course offerings.

For more information on these programs and how to apply, please visit the Center of Continuing Education Website: www.qu.edu.qa/offices/ces/ or call 44033925 – Hotline 6654633.

LIBRARY

As an institution committed to academic excellence, as well as the preservation and expansion of Arab and Qatari culture, Qatar University maintains a robust library system to meet the needs of students, faculty, employees, and the Qatar community as a whole. The New Library building was inaugurated in October 2012, and was designed to meet the QU community’s ever-growing needs in support of the University’s continual expansion, the addition of several new majors, and the increase in student enrollment. The Library is located in the newly developed part of campus, and has five floors designed to hold a maximum capacity of 1 million literary volumes. The ground and first floors are designed for female students, faculty members, staff, and visitors, while the second floor is designated for male users. The University faculty, staff and students are able to check out, reserve, and request books from other libraries through interlibrary loan services. Photocopying and computing services are also available during standard library working hours 7:30 am – 10:00 pm. Faculty and students may consult with a librarian for specialized research assistance in person, via telephone, or through our online chat reference service. In addition, the Information Literacy unit offers workshops and classes throughout the year, where students learn essential research skills, such as how to search for academic sources and how to avoid plagiarism.

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 the 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. Medical support during the exam periods, campus events and gatherings.
7. Referral of patients to different specialist clinics approved by the Supreme Council of Health.
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 – 7:30 pm
Phone: (+974) 4403 3294
Fax: (+974) 4403 3286

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: 7:30 am – 2:30 pm
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 – 2:30 pm
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 students, organizations, companies, alumni and conference attendees. Car permits are also issued for all students. For additional information, refer to the website http://www.qu.edu.qa/offices/businessop/services/index.php

TRANSPORTATION

Qatar University provides the following transportation services:

• Bus transportation for female students to and from the university.
• Bus transportation between the student residences 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 ENGAGEMENT AND SERVICE LEARNING
Qatar University fosters collaboration with the community by investing student and academic resources toward the enrichment of life in our local, national, and global societies. Our goals include developing new courses and projects in which community-based partnerships are central to learning outcomes; enhancing existing courses and projects by integrating community engagement into the experience; and creating new initiatives that bring multiple disciplines together to work on shared community-based projects that promote positive social engagement. These courses and projects allow students to put theory into practice, and understand the complexities of practical problem solving in real-world situations. Through their participation, students are prepared to be effective civic leaders and engaged members of the community.

STUDENT ACTIVITIES
The Student Activities Department aims to promote and enhance QU’s mission by creating an environment for students to test new ideas, develop leadership skills, engage in the learning process, and build community. Through co-curricular opportunities and experiences such as student clubs and organizations, events, sports, recreation, cross-cultural education, community engagement and leadership development, students gain invaluable skills and experiential knowledge that they will continue to develop during their time on campus and beyond as future leaders and stewards of Qatar. Engage with us at: studentactivities@qu.edu.qa

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, entertainment and fun. Such events include the National Day Celebration, Cultural Village and Club Days, in addition to a wide variety of other co-curricular opportunities that are publicized on campus throughout the year. Get involved and bring your learning to life with campus activities and events.

Sports and Recreation
Qatar University offers students, alumni, faculty and staff a wide range of opportunities for competitive and recreational sports. Throughout 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.

Members of the QU community have access to three well-equipped sports facilities, including an aquatic complex and stadium for men, 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, a year football field and athletic track are also available for student use. A well-equipped gymnasium has a large capacity for indoor sports and recreation events and opportunities.

Table tennis, billiards, chess 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.

Global Education and Student Exchange Programs
Qatar University students enjoy a diverse range of programs and trips through which they can explore other institutions and cultures around the globe. The Student Activities Department facilitates and supports incoming and outgoing exchange students as well as students participating in QU-sponsored programs. The Department also provides a diverse selection of international service-learning opportunities to countries like Indonesia, China, Nepal and other places around the world.

Numerous and diverse off-campus opportunities are 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 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 represent QU on an official
transitioning to college academic life, and other academic Foundation Program students at QU. The SLSC is Academic Support Services information.

LEADS program partners with universities, embassies, Taqadam—International Student Leadership Conference; Alumni Mentoring and Leadership Development; and historically difficult science courses, as well as for students needing help with study skills. The SLSC's Supplemental Language Lab, the Academic Success Lab, and study laboratories are designed to provide nonprofessional psychological assistance to their fellow QU students; helping students to cope functionally with everyday stressor that result from academic, social and/or personal lives; to provide QU students with comprehensive knowledge and practical skills useful in addressing stress and wellbeing. The aim is the establishment of the Stress Intervention Cell (SIC) in Qatar University, consisting of trained peer helpers and students who supervise PHs, in order to provide a healthy environment for students whereby their wellbeing needs are addressed. Furthermore, our center has a visiting psychiatrist from Hamad Psychiatric Clinic, who visits the campus once a week for students who need to be assessed for medication. Confidentiality is vital in the Student Counseling Center; students' information taken during counseling sessions is not part of the student files. However, specialists and peer tutors will guide and talk them through their concerns regarding their study or personal needs. The Student Counseling Center, along with the campus, offers various support groups that include: Self Reflection Group, Marriage Group, and Adjustment Group. The Self Reflection Group is designed to provide tutoring sessions that focus on enhancing both writing lab is to help students become better writers by providing tutoring sessions that focus on enhancing writing skills and writing workshops. The SLSC’s Suplemental Instruction (SI) program supports students in courses with historically high failure rates. Students striving to improve their academic performance may also seek individual academic coaching services from the professional staff at the Center. All SLSC programs and services are designed to help students become independent and successful learners by improving study skills and self-confidence, increasing knowledge of course material, and developing a positive attitude toward education, and preparing students for lifelong learning.

The SLSC is the Academic Success Lab, the Language Lab, the Math Lab, and the Student Success Lab. The Math Lab offers individual tutoring, math review sessions, and a variety of math resources to assist students in their courses. The Academic Success Lab provides additional support for students through providing study strategies and feedback sessions on: effective communication skills, stress management, self-esteem, and dealing with anxiety and anger. The center also offers marriage students an exclusive support group to embrace specific marital encounters and skills needed to manage academic and marital challenges, enhance their skills to communicate with their spouses effectively, manage stress, teach parenting skills, and help them focus on quality time with their children. Additionally, the center offers an Adjustment Support Group to help identify and understand the stressors and challenges of international students; a Learning Defender program is also available to help students develop grammar, listening, reading, and speaking skills in both Arabic and English languages.

The SLSC is located in the Faculty Building and the Student Helpdesk. Students can contact the Student Helpdesk through:

- Email: onestop@qu.edu.qa
- Telephone: 4403-4444
- Visit the Helpdesk in person for more information.

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

The Student Helpdesk is a reference for all general inquiries. Communication between the section and students is done through the Reception desk, Student Call Center, and the official accounts of Qatar University on social media (Facebook and Twitter). Furthermore, the Student Helpdesk provides a campus service "Explore QU" to introduce QU’s buildings and services.

Students can contact the Student Helpdesk through:

- Email: studenthelp@qu.edu.qa
- Telephone: 4403-4444
- Visit the Helpdesk in person

Enrollment Services Students One-Stop

Enrollment Services One-Stop provides QU applicants, and students with a single point of reference for general enrollment-related inquiries and services.

The Enrollment Services One-Stop may be reached by:

- Email: onestop@qu.edu.qa
- Telephone: 4403-7979
- Visit the Services One-Stop in person on the ground Floor of the Admissions and Registration building.

The 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 on 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 from 8:00 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 Helpdesk Section. This service allows newly admitted students, current students and students’ parents to get familiar with QU campus, and better know its buildings 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 campus community. The Parent Program organizes several events for parents including orientation for parents, and educational workshops while the staff are available to answer inquiries from parents. Parents have access to the QU Library as well as sports facilities such as the gym, swimming pool, and sports fields. Please contact the Parent Program for additional information. Parents can contact the Parent Program at 4403-3768 / 4403-5967, or via email: parents@qu.edu.qa

International Students
The International Students Section provides support services designed to assist international students with any academic, personal, financial and immigration related questions or issues, and presents students with an opportunity to become involved in the QU community. Currently, our international students come from around 70 countries. The International Students Section is responsible for the welfare of the students whose residency permit is sponsored by Qatar University, and assists international students to secure their entry visa, residency permit, and exit permit; issue annual airline tickets for eligible scholarship students; issues formal sponsorship letters, and coordinate accommodation with the QU Housing Department. The International Students Section also oversees admission to the Arabic for Non-Native Speakers Program. For additional information, please visit their website at: http://www.qu.edu.qa/students/services/is/index.php.

New Student Orientation
New Student Orientation is a full-day event designed to assist new Foundation Program and undergraduate students to become familiar with the exciting and challenging opportunities that Qatar University offers. 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 academic advisors, college peers, and ultimately, with Qatar University.

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. For more information, please visit the New Student Orientation website at: http://www.qu.edu.qa/students/admission/new_student_orientation.php .

Inclusion and Special Needs Support Center
Qatar University is committed to providing all academically qualified students with educational opportunity. Every effort is exerted to ensure fair and 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, and speech and hearing difficulties (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 ensure appropriate academic accommodations.

For additional information on services offered by the Special Needs Center, please see: www.qu.edu.qa/ar/students/success-and-development/specialneeds
CHAPTER 4
ADMISSION
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 succeed during their course of study. In addition to these qualifications, admission takes into consideration the capacity of each college/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 15 years of formal education and who have graduated from various secondary school programs of study, according to the requirements indicated below. It is important to note that the 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.

QATARI 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 Qatari Secondary School Certificates (QSSC) on the basis of the total result for the final year of high school. Students who obtain their independent certificate prior to the 2009/2010 academic year may be considered on the basis of the table of score equivalency in the respective academic year.

PRIVATE AND INTERNATIONAL SCHOOL REQUIREMENTS

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 a High School Diploma in a general Studies Curriculum with a minimum cumulative GPA of 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:

• Passed at least five ICSE (O Level) 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. The student should have attained a total score of 24 out of 42, excluding grades for Theory of Knowledge (TOK) and Extended Essay.

4. KSA 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 Examinations for Assessment in Higher Education, achieving the minimum high school percentage grade required by their major/program of choice.

EARLY CONDITIONAL ADMISSION

In addition to the regular admission process for all Qatari citizens or applicants following the Qatari parent rule or Qatar Travel document holders or wife’s of Qatari Husband who met requirement for early conditional admission either who have already completed secondary school education or who are currently studying in grade 12, regardless of their high school system, the students will be placed into their first college preference.

Early Conditional Admission Requirements

1. Applicant should be a Qatari citizen or have a Qatari parent as a legal guardian or wife’s of Qatari Husband.

2. Applicant should submit all required documents.

Admission Requirements for Students who are still in high school

1. Applicant should be Qatari citizen, following Qatari parent rule or Qatar Travel document holders or wife’s of Qatari Husband.

2. Applicant should submit all required documents.

3. Applicant should meet admission requirements in 11th grade and in the first semester of 12th grade.

Admission Requirements for Students who graduated from high school

1. Applicant should be Qatari citizen, following Qatari parent rule or Qatar Travel document holders or wife’s of Qatari Husband.

2. Applicant should submit all required documents.

3. Applicant should meet admission requirements of 12th grade.

Early Conditional Admission Checklist

1. Complete the Online Admissions Application with an e-payment of QR 200.

2. Submit the following admission documents by the Early Conditional application deadlines:

For Students who are still high school:
You can send them by Email: admission@qu.edu.qa

• Copy of the 11th year transcript.

• Copy of the first semester of the 12th year transcript.

For Primary Schools , IB and British System: Applicants may submit predicted grades using QU form in addition to official result certificates by the submission deadline.

• Photocopy of the applicant’s passport and passport copy for non-Qatari applicants (with applicants Qatari parents must also provide a photocopy of the applicant’s parent Qatari ID card and passport copy for non-Qatari female students married to Qatari Nationals must also provide the marriage contract and a copy of the ID card of the husband).

Admission for Students who graduated from high school:

1. Applicant should be Qatari citizen or have a Qatari parent as a legal guardian or wife’s of Qatari Husband.

2. Applicant should submit all required documents.

Admission Requirements for Students who are still in high school

1. Applicant should be Qatari citizen, following Qatari parent rule or Qatar Travel document holders or wife’s of Qatari Husband.

2. Applicant should submit all required documents.

3. Applicant should meet admission requirements in 11th grade and in the first semester of 12th grade.

Admission Requirements for Students who graduated from high school

1. Applicant should be Qatari citizen, following Qatari parent rule or Qatar Travel document holders or wife’s of Qatari Husband.

2. Applicant should submit all required documents.

3. Applicant should meet admission requirements of 12th grade.

Early Conditional Admission Checklist

1. Complete the Online Admissions Application with an e-payment of QR 200.

2. Submit the following admission documents by the Early Conditional application deadlines:

For Students who are still high school:
You can send them by Email: admission@qu.edu.qa

• Copy of the 11th year transcript.

• Copy of the first semester of the 12th year transcript.

For Primary Schools , IB and British System: Applicants may submit predicted grades using QU form in addition to official result certificates by the submission deadline.

• Photocopy of the applicant’s passport and passport copy for non-Qatari applicants (with applicants Qatari parents must also provide a photocopy of the applicant’s parent Qatari ID card and passport copy for non-Qatari female students married to Qatari Nationals must also provide the marriage contract and a copy of the ID card of the husband).

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2. Applicant should submit all required documents.

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2. Applicant should submit all required documents.

3. Applicant should meet admission requirements of 12th grade.

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1. Applicant should be Qatari citizen or have a Qatari parent as a legal guardian or wife’s of Qatari Husband.

2. Applicant should submit all required documents.

3. Applicant should meet admission requirements of 12th grade.

Early Conditional Admission Checklist

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2. Submit the following admission documents by the Early Conditional application deadlines:

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• Copy of the 11th year transcript.

• Copy of the first semester of the 12th year transcript.

For Primary Schools , IB and British System: Applicants may submit predicted grades using QU form in addition to official result certificates by the submission deadline.

• Photocopy of the applicant’s passport and passport copy for non-Qatari applicants (with applicants Qatari parents must also provide a photocopy of the applicant’s parent Qatari ID card and passport copy for non-Qatari female students married to Qatari Nationals must also provide the marriage contract and a copy of the ID card of the husband).

Admission for Students who graduated from high school:

1. Applicant should be Qatari citizen or have a Qatari parent as a legal guardian or wife’s of Qatari Husband.

2. Applicant should submit all required documents.

3. Applicant should meet admission requirements of 12th grade.

Provisional Admission

As official results for the British Secondary School system (ICGCSE, AS, and A-Level results) and the International Baccalaureate (IB) system will be released after QU has announced admission decisions, in-progress applicants from these two school systems will be considered for Provisional Admission based on anticipated results of coursework that is currently in progress. Students granted Provisional Admission must still satisfy QU’s admission requirements in order to gain formal admission to QU. Provisional Admission is limited to applicants from the British and International Baccalaureate schools only.

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:
Applicants to the Colleges of Arts, Business, Economics, Education, Law, and Sharia:

**Competency Requirement**

**Mathematics Competency**
- ACT 24 or SAT 550

Applicants to the Colleges of Engineering, Pharmacy, Sciences, Medicine and Education (for science and mathematics concentration in Secondary Education):

**Competency Requirement**

**English Competency**
- IELTS 5.5 or TOEFL 500

**Mathematics Competency**
- ACT 24 or SAT 550

The dean of the college will consider such requests against the quality and depth of the applicant pool, the available capacity within the applicant’s intended major, and high school subject grades.

**TRANSCRIPT REQUIREMENTS**

Qatar University requires that all transcripts submitted in support of an admission application be final, official and authenticated according to the following sets of standards:

- **Qatar Government and Independent High Schools**
  - All applicants who attended a government or independent high school located in the State of Qatar must ensure that the following transcript requirements are met:
    1. The transcript must be final.
    2. The transcript must be official.
    3. The transcript must be stamped and signed by an appropriate high school official.

- **Qatari Private High Schools**
  - All applicants who attended a private high school located in the State of Qatar must ensure that the following transcript requirements are met:
    1. The Transcript must be final.
    2. The transcript must be official.
    3. The transcript must be stamped and signed by an appropriate high school official.

- **UNIVERSITIES LOCATED OUTSIDE OF QATAR**
  - All applicants who have attended a university within the State of Qatar and wish to transfer to Qatar University must ensure that the following transcript requirements are met:
    1. The Transcript must be final.
    2. The transcript must be official.
    3. An Arabic or English translation of the final transcript must accompany the transcript if it is issued in a language other than Arabic or English.
    4. If the university is accredited by an international accrediting association (accreditation recognition must be listed on the official transcript), no further attestation is required.
    5. If the university is not accredited internationally, the transcript must be certified by the Ministry of Higher Education or the Ministry of Foreign Affairs in which the university is located. The transcript must also be certificated by the Ministry of Higher Education in the country where the student resides.

- **UNIVERSITIES LOCATED IN QATAR**
  - All applicants who have attended a university outside the State of Qatar must also submit a copy of their passport.
  - All applicants who have not earned at least 24 credit hours at a university, and have not attended another university and passed Qatar University's English competency requirements are considered transfer applicants and may apply for transfer admission to Qatar University. Transfer credit may only be considered if it is awarded by an accredited university. Transfer applicants apply for either Fall or Spring semesters 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 a minimum of two semesters (Fall and Spring) of undergraduate coursework with a minimum cumulative GPA of 2.50 out of 4.00 at a university accredited by the Ministry of Higher Education or equivalent authority in that country.
  - Met Qatar University’s English competency requirements
  - For colleges that require the Foundation Program by satisfying either of the following:
    - Submit official English test score reports taken within the last 2 years.
    - Completed a minimum of 24 credit hours and two semesters at an institution of higher education where English was the medium of instruction. Official course evaluation forms must be submitted at the time of application to ensure for exemption to be considered.

- **Requirements for Transfer from CNA-Q to Qatar University**

**UNDERGRADUATE ADMISSION 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 certification form.
     - Photocopy of the applicant’s Qatar ID card (Non-Qatari applicants must also submit a copy of their passport).

   Transfer applicants are required to submit the following documents to the Admissions Department:
   - Complete Online Admissions Application with an e-payment of QR 200.
   - Official, final, and certified university transcript

   • Official English and mathematics competency scores (if applicable).
   • 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 a white background.

   Undergraduate transfer applicants must satisfy all QUA 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.

   **Requirements for Transfer of Credit**

   Transfer credit may be considered for evaluation after satisfying the following criteria:
   - Applicant has submitted the following required documents for transfer credit evaluation:
     1. Final, official and certified university transcript.
     2. Detailed course syllabus stamped from the registrar’s office or the department offering the course in the student’s university (syllabus sample).
     3. A minimum grade of C is needed for any credit hours submitted for transfer credit evaluation, and must have been completed within the last five years.
     4. A maximum of 50% of required credit hours for the submitted program may 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 degree programs.
     5. 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.

   **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 College of 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**

   1. To be eligible for admission to Qatar University under this articulation agreement, applicants must have earned a minimum cumulative GPA of 3.00 in any of the following CNA-Q advanced diploma programs:
     - Business Management (Accounting)
     - Business Management (Human Resource Management)
     - Business Management (Marketing)
     - Electrical Engineering Technology “power and controls”
     - Mechanical Engineering Technology
     - Instrumentation Engineering Technology
     - Telecommunication Engineering Technology

   2. Detailed course syllabus and a copy of the applicant’s CNA-Q diploma must be submitted to the QUIT Admissions Department by the admission deadline. First Year admits are not eligible to receive transfer credit.
Qatar (CCQ) and who have earned at least 24 credit hours that may be transferred and applied towards their specific program may be considered for transfer credit evaluation; the maximum of 50% of required credit hours for submitted undergraduate coursework with a minimum cumulative GPA of 2.00 from a university accredited by an internationally accredited association or by the Ministry of Higher Education or equivalent in that country. Visiting students may be eligible to apply for transfer admission to Qatar University. To be considered for transfer admission to Qatar University, applicants must satisfy the following requirements:

1. Successfully completed either an Associate in Arts (AA) or Associate in Science (AS) degree and who meet the following minimum criteria will be considered for admission to Qatar University:
   - A minimum grade of C is needed for any credit hours that may be transferred and applied towards their specific program. Non-degree students may register in a maximum of 48 credit hours or 4 semesters of course work at Qatar University, whichever comes first.
   - A maximum of 48 credit hours or 4 semesters of course work at Qatar University, whichever comes first.
   - A minimum grade of C in 24 credit hours of undergraduate coursework with a minimum cumulative GPA of 2.00 out of 4.00 from a university accredited by an internationally accredited association or by the Ministry of Higher Education or equivalent in that country.
   - Visiting students may be eligible to 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 with a minimum cumulative GPA of 2.00 out of 4.00 from a university accredited by an internationally accredited association or by the Ministry of Higher Education or equivalent in that country.
   2. Have completed a minimum of 24 credit hours of undergraduate coursework with a minimum cumulative GPA of 2.00 out of 4.00 from a university accredited by an internationally accredited association or by the Ministry of Higher Education or equivalent in that country.

   3. Met Qatar University’s English and mathematics competency requirements. 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. All non-degree applicants who meet the following minimum criteria will be considered for admission to Qatar University. To be considered for transfer admission to Qatar University, applicants must satisfy the following requirements:

   1. Successfully completed either an Associate in Arts (AA) or Associate in Science (AS) degree and who meet the following minimum criteria will be considered for admission to Qatar University:
   - A minimum grade of C is needed for any credit hours that may be transferred and applied towards their specific program. Non-degree students may register in a maximum of 48 credit hours or 4 semesters of course work at Qatar University, whichever comes first.
   - A maximum of 48 credit hours or 4 semesters of course work at Qatar University, whichever comes first.
   - A minimum grade of C in 24 credit hours of undergraduate coursework with a minimum cumulative GPA of 2.00 out of 4.00 from a university accredited by an internationally accredited association or by the Ministry of Higher Education or equivalent in that country.
   - Visiting students may be eligible to apply for transfer admission to Qatar University. To be considered for transfer admission to Qatar University, applicants must satisfy the following requirements:

   1. Successfully completed either an Associate in Arts (AA) or Associate in Science (AS) degree and who meet the following minimum criteria will be considered for admission to Qatar University:
   - A minimum grade of C is needed for any credit hours that may be transferred and applied towards their specific program. Non-degree students may register in a maximum of 48 credit hours or 4 semesters of course work at Qatar University, whichever comes first.
   - A maximum of 48 credit hours or 4 semesters of course work at Qatar University, whichever comes first.
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 criteria will be considered for admission to Qatar University:
1. Earned bachelor's 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 authority in that country.
2. Met Qatar University's English competency requirements by satisfying either of the following:
   • Submit official English test score reports taken within the last two years along with this application.
   • Earned a previous undergraduate degree from an institution of higher education in a program where English was the primary medium of instruction. Official academic statements proving this must be submitted at the time of application for exemption to be considered.
3. Met Qatar University’s mathematics competency requirements.
4. Pursue a different major than was earned in the first bachelor’s degree.

Required Documents:
All second-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 applicant’s name and signature (applicants must also submit a copy of their passport)
• Photocopy of the applicant’s Qatar ID card (Non-Qatari applicants)
• Health Certificate issued inside Qatar.
• Final, official and certified university transcript

Test Requirements:
• 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.

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 Medicine
5. College of Pharmacy

1. English Competency

<table>
<thead>
<tr>
<th>Test</th>
<th>Minimum Score for Exemption</th>
</tr>
</thead>
<tbody>
<tr>
<td>Test of English as a Foreign Language (TOEFL IBT)</td>
<td>61</td>
</tr>
<tr>
<td>International English Language Testing System (IELTS)</td>
<td>5.5</td>
</tr>
</tbody>
</table>

ACCUPLACER ESL

<table>
<thead>
<tr>
<th>Composite Score</th>
<th>Reading Score</th>
<th>Writing Score</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aggregate Score</td>
<td>Reading Score</td>
<td>Writing Score</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Test</th>
<th>Minimum Score for Exemption</th>
</tr>
</thead>
<tbody>
<tr>
<td>Scholastic Aptitude Test (SAT)</td>
<td>500</td>
</tr>
<tr>
<td>American College Test (ACT)</td>
<td>21</td>
</tr>
<tr>
<td>ACCUPLACER Math: APL</td>
<td>82</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>College Board SAT Math</td>
<td>500</td>
</tr>
<tr>
<td>ACT数学 (ACT)</td>
<td>21</td>
</tr>
<tr>
<td>ACCUPLACER Math: APL</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 test 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 admissions application 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: www.qu.edu.qa.

Qatar University offers three terms within the Summer semester and welcomes visiting students. Visiting students should contact the QU website for application deadlines and dates for each of the three summer terms.

STUDENT CLASSIFICATION:
Students are classified according to the following categories:
1. Regular Degree-Seeking Students
   Regular students are those admitted to a academic program at Qatar University and are pursuing a degree.
2. Visiting and Non-Degree Students
   Visiting and non-degree students are not classified as regular degree-seekers, as their admission status does not allow them to register their courses or attend classes and will need to re-apply for admission.

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 apply for admission in a future semester will need to re-apply for admission.
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.

For all Undergraduate and Foundation Program students admitted starting from Fall 2015 and onward

<table>
<thead>
<tr>
<th>Course Major</th>
<th>Tuition Fees per Credit Hour</th>
<th>Tuition Fees per Academic Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>Art</td>
<td>800</td>
<td>Fall 30,000 Spring 27,000 Summer 3,000 Total (QR) 60,000</td>
</tr>
<tr>
<td>Education</td>
<td>800</td>
<td>Fall 30,000 Spring 27,000 Summer 3,000 Total (QR) 60,000</td>
</tr>
<tr>
<td>Law</td>
<td>800</td>
<td>Fall 30,000 Spring 27,000 Summer 3,000 Total (QR) 60,000</td>
</tr>
<tr>
<td>Business</td>
<td>900</td>
<td>Fall 30,000 Spring 27,000 Summer 3,000 Total (QR) 60,000</td>
</tr>
<tr>
<td>Foundation Program</td>
<td>900</td>
<td>Fall 30,000 Spring 27,000 Summer 3,000 Total (QR) 60,000</td>
</tr>
<tr>
<td>Science</td>
<td>900</td>
<td>Fall 30,000 Spring 27,000 Summer 3,000 Total (QR) 60,000</td>
</tr>
<tr>
<td>Engineering</td>
<td>1000</td>
<td>Fall 60,000 Spring 60,000 Summer 0 Total (QR) 120,000</td>
</tr>
</tbody>
</table>

Tuition fees for Qatari students attending part-time are QR.100 less per credit hour than the amounts shown above.

College of Medicine Tuition Fees

<table>
<thead>
<tr>
<th>Academic Year</th>
<th>Tuition Fees per Unit (QR)</th>
<th>Tuition Fees per Academic Semester</th>
<th>Total (QR)</th>
</tr>
</thead>
<tbody>
<tr>
<td>First Year</td>
<td></td>
<td>Fall 30,000 Spring 27,000 Summer 3,000 Total (QR) 60,000</td>
<td></td>
</tr>
<tr>
<td>Second Year</td>
<td>1,000</td>
<td>30,000 27,000 3,000 60,000</td>
<td></td>
</tr>
<tr>
<td>Third Year</td>
<td>1,000</td>
<td>31,000 26,000 3,000 60,000</td>
<td></td>
</tr>
<tr>
<td>Fourth Year</td>
<td>(1,000 Academic Courses Level) 2,000 Clinical Level</td>
<td>30,000 54,000 6,000 90,000</td>
<td></td>
</tr>
<tr>
<td>Fifth Year</td>
<td>2,000</td>
<td>56,000 56,000 8,000 120,000</td>
<td></td>
</tr>
<tr>
<td>Sixth Year</td>
<td>2,000</td>
<td>60,000 60,000 0 120,000</td>
<td></td>
</tr>
</tbody>
</table>

Tuition fees for Qatari students attending part-time are QR.100 less per credit hour than the amounts shown above.

For all Undergraduate and Foundation Program students admitted prior to Fall 2009

<table>
<thead>
<tr>
<th>Course Major</th>
<th>Tuition Fees per Credit Hour</th>
<th>Tuition Fees per Academic Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>Art</td>
<td>800</td>
<td>Fall 30,000 Spring 27,000 Summer 3,000 Total (QR) 60,000</td>
</tr>
<tr>
<td>Education</td>
<td>800</td>
<td>Fall 30,000 Spring 27,000 Summer 3,000 Total (QR) 60,000</td>
</tr>
<tr>
<td>Law</td>
<td>800</td>
<td>Fall 30,000 Spring 27,000 Summer 3,000 Total (QR) 60,000</td>
</tr>
<tr>
<td>Business</td>
<td>900</td>
<td>Fall 30,000 Spring 27,000 Summer 3,000 Total (QR) 60,000</td>
</tr>
<tr>
<td>Foundation Program</td>
<td>900</td>
<td>Fall 30,000 Spring 27,000 Summer 3,000 Total (QR) 60,000</td>
</tr>
<tr>
<td>Science</td>
<td>900</td>
<td>Fall 30,000 Spring 27,000 Summer 3,000 Total (QR) 60,000</td>
</tr>
<tr>
<td>Engineering</td>
<td>1000</td>
<td>Fall 60,000 Spring 60,000 Summer 0 Total (QR) 120,000</td>
</tr>
</tbody>
</table>

Tuition fees for Qatari students attending part-time are QR.100 less per credit hour than the amounts shown above.
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 1000 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 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/or 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 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 or Spring Semester</td>
<td>Up to 2 weeks after 2 weeks and up to 4 weeks</td>
<td>20%</td>
</tr>
<tr>
<td></td>
<td>After 4 weeks and up to 8 weeks</td>
<td>50%</td>
</tr>
<tr>
<td></td>
<td>After 8 weeks</td>
<td>100%</td>
</tr>
<tr>
<td>Summer Semester</td>
<td>Up to 1 week after 1 week and up to 2 weeks</td>
<td>20%</td>
</tr>
<tr>
<td></td>
<td>After 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 for each locker; no refund is available.

Campus Card
Student ID card first issue is free of charges and the student is obligated to pay QR 50 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 Student Fund and Financial Aid Section by Email 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 visit: http://www.qu.edu.qa/students/services/textbooks/guides.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:

- Textbooks
- 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:

Non-Competitive Scholarships:

GCC States Scholarships (Emabasses)
These scholarships are awarded to GCC nationals who earn their Qatar secondary certificate or equivalent from a country other than the State of Qatar, and should be nominated through their embassies. Recipients of these scholarships are exempted from tuition fees and receive free accommodation from the University.

GCC Qatari Certificate Scholarships
These scholarships are awarded to GCC nationals who earn their high school certificate from the State of Qatar. Recipients of these scholarships are exempted from tuition fees and there are no other benefits.

Children of Qatari Nationals Scholarships
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.

Children of QU Employees Scholarships
These scholarships are granted to children of QU employees. The University offers a maximum of two scholarships to two children of the employee at one time. If the parents are both working at Qatar University, tuition fees for a third child are reduced by 50%. Recipients of these scholarships are exempted from tuition fees and there are no other benefits.

Competitive Scholarships:

Islamic and Other Countries Scholarships
These scholarships are available to students from the Islamic world and countries other than those of the GCC. These competitive academic scholarships are awarded to the highest performing applicants. They are divided into two categories; internal and external scholarships, with the only difference between the two categories being the type of provided benefits, as illustrated below:

- Internal scholarship: Recipients of these scholarships are exempted from tuition and book fees only.
- External scholarship: Recipients of these scholarships are exempted from tuition and book fees, receive free accommodation from the University, and receive a student visa under QU sponsorship.

H.H. Emir Scholarship for Academic Excellence Scholarships
These scholarships are awarded on a competitive basis to 10 male and 10 female high school graduates resident in Qatar. Recipients of these scholarships are exempted from tuition and book fees only.

Outstanding Performance Scholarships
These competitive scholarships are awarded to the highest achieving students enrolled at QU who have shown outstanding academic performance in their coursework at QU. Recipients of these scholarships are exempted from tuition fees. No other benefits are granted.
QU Honor Program Scholarships
The Honors scholarship targets active Honors students at Qatar University who have shown outstanding academic performance in their coursework at QU. It will be given to 3 Honors students each academic year. Recipients of these scholarships are exempted from tuition fees. No other benefits are granted.

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

Conditions to Maintain QU Scholarships
Maximum Duration:
All scholarships include a maximum award period based on the program graduation requirements in addition to the Foundation Program (maximum period of one year). The maximum duration does not include summer courses.

The following additional conditions apply to these three scholarship categories:
- Islamic Countries and other Countries Scholarship
- Academic Excellence Scholarship
- Outstanding Performance Scholarship
- QU Honor Program Scholarships

Foundation Program:
1. Complete the Foundation Program in a maximum of 2 semesters (one year).
2. If the student did not complete the Foundation Program in 2 semesters:
   a) Internal Scholarships for Residents of the State of Qatar: The scholarship will be suspended. The student may continue studying at Qatar University but is responsible for his/her tuition and fees. The student will be re-activated upon completion of the Foundation Program or transferring to colleges without Foundation Program requirements.
   b) External Scholarships for International Students: The scholarship will be terminated. In cases where Qatar University is the student's sponsor, the student's study visa and residency will be canceled and the student will be repatriated to his/her home country.
3. After the student's scholarship has been canceled, the student will not be eligible to receive that scholarship again, regardless of whether the situation is amended.
4. Recipients of the Honors Program Scholarship are responsible for maintaining the requirements of the award as stipulated by the Honors Program. Questions regarding conditions for this award should be directed to the Honors Program.

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

University Code of Conduct

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 strive to develop to the full range of their capabilities and take full advantage of the institutions’ resources.

The University Code of Conduct 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 University Code of Conduct and its procedures. Moreover, they understand the consequences of the 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 events or club activities, Athletic events, etc.) are subject to this code. QU expects its students to adopt and abide by the highest standards of conduct in their interaction with 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 required from them for being members of the QU community. As such, a student is expected not to engage in behaviors that compromise their integrity, as well as the integrity of QU. While the University encourages its students to express themselves freely, this freedom is forfeited when it infringes on the rights 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, provided such opportunities fall within the standards and/or requirements adopted by the University.

• Freedom of thought and expression, in accordance with applicable policies, rules and laws adopted by the University.

• Equal opportunities regardless of race, color, gender, religion, ethnicity, age or disability.

• Confidentiality of university records. University records are not disclosed to other parties unless there is a student’s explicit written consent, except for authorized persons as stated in section “Confidentiality of Student Records”.

• A fair university judicial process whenever applicable.

Student Responsibilities

QU students should:

• Contribute to maintaining a safe and orderly university educational environment.

• Show respect to other individuals at QU; Faculty, 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 responsibly.

• Pursue knowledge.

• Dress appropriately and according to the University rules and regulations.

• Accept responsibility for their actions.

CONFIDENTIALITY OF STUDENT RECORDS

All students’ records and associated financial records are considered confidential. Student university records are established and maintained for administrative purposes. Access to these records is limited to the student and designated university officials as stated below. Access to these records by other individuals requires the student’s explicit written consent, with the exception of the student’s parents or his/her legal guardian.

University officials who have legitimate educational interest can have copies of students’ records if the needed information is integral element of the work. A “university official” includes faculty, staff, a member of the board of Regents, third-party actors in behalf of the university, and individuals, including students, serving on university committees. The decision, as to whether a legitimate educational interest exists or not, will be made by the custodian of the records on a case-by-case basis. Should contractual agreements between the student and external agencies sponsoring him/her require the release of these records to such agencies, the student must sign a release form or write a release letter to that effect once he/she is admitted to the University.

A student working at QU is considered an employee of the University and, as such, is sometimes required to handle confidential materials. Therefore, he/she is not permitted to divulge (disclose) any confidential material and is required to sign a statement of confidentiality prior to working at the University.

JURISDICTION

All charges involving any violation of the University Code of Conduct will be transferred to the Vice President for Student Affairs (VPSA) for documentation purposes and for determination of the appropriate action to be taken in consultation with concerned parties when the need arises.

DEFINITIONS OF ACADEMIC VIOLATIONS

Academic violations are divided into three categories and include the following:

First Category includes:

Inappropriate Collaboration

Inappropriate Collaboration includes but not limited to 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 producing a submitted work, and the use of unauthorized assistance in all cases of submitted work.

Disruption of discipline:

Disruption of discipline includes any disruptive behavior during classes as well as any behavior that affects the educational sessions at QU negatively.

Category Two includes:

Dishonesty

It includes cheating or any attempt of cheating or disruption during testing sessions. Dishonesty in examinations and any submitted work may include the following forms:

1. Submission of non-original papers; test results, work and materials;

2. Any form of communication between or among students during examination;

3. Impersonation.

4. Impersonation is the state in which a student or any other

5. Obstructing another student during examination;

6. Act of complicity in academic dishonesty

7. Submitting any material prepared by or purchased from

8. Making a false statement or claim;

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5. Obstructing another student during examination;

6. Act of complicity in academic dishonesty

7. Submitting any material prepared by or purchased from

8. Making a false statement or claim;
Plagiarism applies to all student assignments or submitted work and it includes the use of the work, ideas, or expressions of others without permission; use of someone else’s wording, name, phrase, sentence, paragraph or essay without referring to the source, and misrepresentation of the sources that were used.

**Adjudication of offenses**

Cases resulting from alleged violations of the student integrity code are within the jurisdiction of a faculty member, department head, dean of the college, and the Vice President for Student Affairs. The concerned personnel will consult with the Student Judiciary Committee (SJC), which a university-wide committee, to investigate cases of violations. The mandate of the Student Judiciary Committee is to advise the President for Student Affairs on individual cases with respect to academic or non-academic violation of the integrity code. The Committee, in conducting its business, will observe:

- The concepts of procedural fairness, and
- The existing University Code of Conduct.

This will be accomplished by reviewing the facts of each case; and examining 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 should consult with the college’s Student Affairs committee to investigate cases of alleged 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 consult with the President and the Vice President Chief Academic Officer, the QU legal advisor and the President of the University to take the decision. The ultimate decision to dismiss a student from the university lies within the jurisdiction of the president of the university who might seek the advice of the Director of legal affairs office.

**Disciplinary Actions**

A student is advised that violations of the University Code of Conduct with special attention given to repeated offenses. A notation of the University Code of Conduct violation will be entered on the student’s permanent record. Penalties for violations of QU rules and regulations or for acts of student misconduct may include one or more of the following:

**Category One**:
- Student will be asked to resubmit the work assigned by the faculty member, or to submit additional work for the course in which the offense occurred.
- A lower grade or a reduction of credit for the work found to be in violation of the integrity code.

**Category Two**:
- Written warning from the Dean’s office of the college where the student is enrolled.
- Exclusion from academic privileges, including Dean’s honor’s List and VP list of honors all through enrollment at QU.
- A failing grade of (F) or (0) shall be given for the course in which the offense occurred.
- Suspension for one term from the university followed by exclusion from academic privileges (Dean’s list and VP list of honors).
- Reprimand from the dean of the college, a reprimand is a written statement of disapproval of the behavior issued by the dean of the college and filed in the student’s university records.

**Category Three**:
- Written warning: It is an official written notification issued by the office of the VP of student affairs specifying that the student’s behavior violates the University Code of Conduct that the action or behavior must cease immediately. The following options for possible misconduct could result in additional disciplinary action.
- Suspension for two consecutive terms.
- Exclusion from the University for a period of three years.
- Temporary suspension of granting the Academic degree.
- Cancellation of the Academic degree granting decision in case of fraud in the documents or procedures that led to granting the degree.

**PROCEDURES AND GUIDELINES:**

1. The immediate responsibility for dealing with instances of academic dishonesty, plagiarism, disruption in classroom and academic conduct violations is expressed by the student member of the faculty. In any case of academic offense committed by a student, the faculty member should fill out the relevant form of student offense (Offense listing form) which shall be documented in the student’s personal file in the college’s archives and within the office of the VP of Student Affairs (VPSA). This action will be accomplished through the notification of the office of the VPSA and the Department Head in which the alleged offense occurred.

2. In the case that a faculty member is convinced that the alleged offense is intentional, the following options are possible:
   - Asks the student to hand in the paper to be graded.
   - Written warning from the Department Head documents / notes his/her opinion (on the form) after meeting with both the faculty member and the student.
   - The form “Offense Record Form” should be forwarded to the VPSA and the Department Head in which the alleged offense took place.
   - Based on the level of severity of the alleged offense, and after consultation with the faculty member concerned, the Department Head documents / notes his/her opinion (on the form) after meeting with both the faculty member and the student.
   - The form is then forwarded to the dean of the college for either the final decision, or to be forwarded to the Vice President of 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 selected at the beginning of the academic year.
   - In all cases, offenses must be recorded and sent to the VPSA for monitoring purposes. All cases, the student’s part rather than an intended dishonesty, the faculty member shall request the student to resubmit an acceptable academic work that must be put on record in the student file. In such cases, the faculty member may, for example, require the student to rewrite or correct the original work or assignment or to resubmit a substitute work or assignment.
   - In the case that a faculty member is convinced that the alleged offense is intentional, the following options are possible:
     - The student to rewrite or correct the original work or assignment.
     - The student to hand in the paper to be graded.

**Category two includes:**

1. Aggressive, disruptive, destructive, or abusive behavior towards the faculty member, administration or even outside the campus or through channels of social media.
2. Harassment (verbal or physical) and/or intimidation of peers, faculty, and University employees in person or through channels of social media or email.
3. Behavior that threatens the physical or emotional safety and well-being of others within campus grounds, premises, and facilities including smoking or possession/usage of illegal substances inside Campus facilities or within the confines of the QU campus.
4. Violation of Qatar University Dress Code: QU recognizes cultural diversity and respects the requirements needed for a positive learning environment. Students and students who are expected to dress in a manner respectful of the local Qatari culture and traditions as well as the academic nature of the institution. Inappropriate dress for both males and females is unacceptable.
5. Using any social media channel to defame QU or posting pictures of any of the QU staff, faculty members, or students without their consent.
6. Violation of the Confidentiality policy by unprofessional exploitation of any Student Employment position in any department at QU including disclosure of any information about any member of the faculty, staff or student. It also includes illegal use of any service.

**Category three includes:**

1. Any behavior that would threaten the lives of others physically or morally or within the confines of the QU campus or its facilities.
2. QU expects its students to behave in a way that respects the norms and social behavior of the Qatari society and the academic environment of its premises that mandates segregation. Violations of this respect of norms includes as well inappropriate behavior including verbal or physical harassment by the University in addition to invading the privacy of others in all its forms within the confines of the QU campus.
3. Theft, which includes stealing of private or university property or otherwise obtained on campus premises in addition to use with any university activity. Moreover, it includes making use of any services without rights to do so.

**Disciplinary actions are related to the seriousness of the violations and their impact on all involved parties and they include:**

**Category one:**
- Reprimand.
- Written or oral warning.
- Loss of student employment eligibility.
- Loss of merit scholarship.
- Restitution: reimbursement for the University for any dam-
PROCEDURES AND GUIDELINES

The appeals process is as follows in case of non-academic offenses by students:
1. Fill the form of non-academic violation
2. Send the form to the office of the VP of student affairs.
3. The office of Discipline in the VP office will review the complaint, check the student’s record and record the complaint.
4. The discipline officer will decide if the complaint should be referred to the judicial committee or to be dealt with in the VP office.
5. When the case should be referred to the judicial committee, the office of the VP will send it to the committee.
6. When the case is to be dealt with within the jurisdiction of the VP office, the discipline officer will recommend the appropriate actions against the student based on the code of conduct.
7. The VP of student affairs meets the student in presence of the discipline officer to inform student of the decision.
8. The office of the VP of student affairs will keep the case in their records.
9. The office of the VP of student affairs will inform all concerned parties about the decision such as the registration department, administrative department, office of the Dean of the college in which the student is enrolled, scholarship office, etc.

Records of Disciplinary Actions

Records of the violation and disciplinary action charges and sanctions will be maintained as part of the confidential records in the office. The VPSA and the 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.

Appeal Disciplinary Committee

The president will form an appeal disciplinary committee consisting of three members to look into the appeals submitted by students to review the procedures of any of the cases discussed by the judicial committee. The student should appeal against the disciplinary decision recommended by the judicial committee during the first 15 days after being informed of the decision. The committee’s term is two years subject to renewal.

VIOLATION OF THE STUDENT INTEGRITY CODE FORMS

Non-Academic Violations (Arabic version)
Academic Violations (Arabic version)

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.

STUDENT COMPLAINTS SYSTEM

Qatar University is committed to a policy of fair treatment for the students, faculty, and staff in their relationships with the University. The student, administration, faculty, staff and other members through the Student Complaint System and its academic and non-academic procedures.

STUDENT COMPLAINTS REGADING ACADEMIC DISPUTES

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, work completed for one course and submitted for another, and violation of intellectual property. The Final Grade change appeal is excluded from this section, please refer to section 4.13.

Scope

This section sets forth the procedures to be followed by a student who believes he/she has been unfairly or improperly treated by a member of the academic or non-academic community. For example, it applies to disputes over grades assigned during the academic semester, decisions about program or degree requirements, eligibility, or claims that course requirements are unfair.

Informal Resolution

The student should first try to resolve the grievance informally by discussing the grievance with the faculty member as soon as reasonably possible after the student becomes aware of the matter. If the student and faculty member are not able to reach an agreement, the student should discuss the objection with the faculty member’s department head. If the complaint remains unresolved, the student should discuss it with the 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 dean, the student should discuss it with one administrative level higher than that of the department head/dean.

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 email. If the office’s decision is not acceptable by the student, then the student must file a written appeal within ten (10) business days of the complaint’s submission. The student will be informed if the investigation exceeds 10 business days.

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 its announcement. The Vice President for Student Affairs will review and direct the appeal to the appropriate department. The result of the appeal will be reviewed within ten (10) business days of submitting the appeal.

3. 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 from the date of the decision. The Vice President for Student Affairs shall review all documentation relating to the appeal and make a decision. At this stage, the outcome of the appeal is final and no further appeal is available. In cases where the Vice President for Student Affairs recommends dismissal from the University, the student may submit an appeal to the University President.

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

Withdrawal of Complaint

Students may withdraw a previously submitted complaint while the complaint is being investigated. In such cases, the complaint will be closed and applicable parties will be informed of the withdrawal. Complaints which have been closed may not be withdrawn.

STUDENT COMPLAINTS REGADING NON-ACADEMIC DISPUTES

Nonacademic issues may include, but are not limited to, harassment (verbal or physical), intimidation, discriminatory or abusive behavior within the limitations of QU campus, fines, fees, 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 as soon as reasonably possible after the student becomes aware of the matter. If the matter involves a staff member, and the student and the staff member cannot reach an agreement, the student should bring it to the staff member’s supervisor. Although students are encouraged to resolve the complaint informally, the nature of certain cases
may require that the informal process be bypassed.

**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 e-mail within ten (10) business days of the complaint’s submission. The student will be informed if the investigation exceeds 10 business days.

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 its announcement. The Vice President for Student Affairs will review and direct the appeal to the appropriate department. The result of the appeal will be e-mailed to the student within ten (10) business days of submitting the appeal.

3. In case 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 from the date of the decision. The Vice President for Student Affairs shall review all documentation relating to the appeal and make a decision. At this stage, the outcome of the appeal is final and no further appeal is available. In cases where the Vice President for Student Affairs recommends dismissal from the University, the student may submit an appeal to the University President.

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

**WITHDRAWAL OF COMPLAINT**

Students may withdraw a previously submitted complaint while the complaint is being investigated. In such cases, the complaint will be closed and applicable parties will be informed of the withdrawal. Complaints which have been closed may not be withdrawn.

**CONFIDENTIALITY**

Information related to a complaint is treated as confidential and is only shared with authorized individuals on a need-to-know basis. This information is used for the purpose of investigating and resolving the complaint in accordance with QU policy.
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 Helpdesk by email 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 in 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 with 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 add/drop 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 website.

Academic Load: The minimum and maximum number of credit hours allowed per semester is as follows:

<table>
<thead>
<tr>
<th>Semester</th>
<th>Minimum (Min)</th>
<th>Maximum (Max)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall and Spring</td>
<td>12</td>
<td>18</td>
</tr>
<tr>
<td>Summer</td>
<td>9</td>
<td>12</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 the 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 before 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 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 provision is during 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 system when the student has completed at least one semester. The maximum period for which a student can leave the University must not exceed four semesters.

RETURNING HIGH SCHOOL CERTIFICATES

At the request of the student, the Registration Department will return the original high school certificate to the student if the student is no longer enrolled in Qatar University. After a period of five years following deactivation of the student record, the student's paper file will be destroyed. The University does not accept responsibility for any files destroyed. Original high school certificates may not be returned to enrolled students.

FINAL EXAMINATION SCHEDULE

Final examinations are announced at the beginning of each semester, and the final exam schedule is posted by the Office of Student Affairs on the university website. It is the responsibility of the student to be aware of these dates. A student who misses a final exam due to circumstances beyond their control (family illness or death, personal illness, etc.), must contact the instructor to justify the absence and submit proof of the circumstance. 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 (10% for students enrolled in the Medical Doctor program in the College of Medicine) during a semester. Students who exceed this limit will receive a failing grade, regardless of their performance. In exceptional cases, students with their instructor's 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.

The following rules are applied in determining attendance of the students:

• If 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 an assessment measure and failure to attend classes within the allowed limits is not used as a reason to lower student grades.

Student Coursework Assessment and Grading

Student assessment and grading is a continuous process starting on the first day of class and continuing until the end of the semester. Instructors evaluate student performance using a variety of techniques, methods and tools. Instructors assess each student's performance and progress in the class while recognizing areas of strengths and weaknesses. Grading is a cumulative notion that is based on the student's performance during the semester. The student's final grade is not based on less than three different assessment tools. These may include, but are not limited to, exams, projects, presentations, reports, quizzes, reading assignments, research papers, writing essays, classroom feedback and discussions etc. In all cases, every student has the right to see, review and discuss with the instructor all marked materials used in grading them.

Grading Policy

Instructors shall determine the grade for each undergraduate student registered in their courses according to the following table:

Letter Grades and their Corresponding Grade Points

<table>
<thead>
<tr>
<th>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>P</td>
<td>Pass</td>
<td></td>
<td></td>
</tr>
<tr>
<td>NP</td>
<td>Not Pass</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CC</td>
<td>Continuing  Course</td>
<td></td>
<td></td>
</tr>
<tr>
<td>F</td>
<td>Force Withdrawal</td>
<td></td>
<td></td>
</tr>
<tr>
<td>W</td>
<td>Withdrawal</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Letter Grade  Description  Percentage  Grade Points

A     Excellent  90 to 100  4.00
B+    Very Good   85 to < 90  3.50
B     Very Good   80 to < 85  3.00
C+    Good        75 to < 80  2.50
C     Good        70 to < 75  2.00
D+    Pass        65 to < 70  1.50
D     Pass        60 to < 65  1.00
F     Fail        less than 60  0.00
P     Pass        |                          |
NP    Not Pass    |                          |
CC    Continuing  Course |                       |
F     Force Withdrawal |                      |
W     Withdrawal  |                          |

Student's current registered courses are as follows:

Subject  Credit hours  Total Points Gained*  GPA

Subject  Grade Points  Credit hours  Total Points Gained*  GPA

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 GPA calculations:

Subject  Grade Points  Credit hours  Total Points Gained*  GPA

1  4.0  3  4.0 x 3 = 12
2  2.5  2  2.5 x 2 = 5
3  1.0  3  1.0 x 3 = 3
4  0.0  1  0.0 x 1 = 0

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.

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.
   c) They pass the Foundation Program requirements, if applicable.
   d) The department offering the major approves the major declaration on the basis of department capacity.
   e) Students may declare and pursue only one major.
   f) Students should declare their selected major before completing 36 undergraduate credit hours.
   g) At least half of the credit hours required to complete the minor must be taken in residence at QU.
   h) A student may change their major once and the change of major must be taken in residence at QU.

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 student must complete the credit hours required for the minor requirement in a student's degree program as part of the requirements of both the major and the minor the student is enrolled in will be counted towards the major unless the student satisfies the requirements for the major without the use of the course (e.g. course listed in the major electives).

Double Use of Courses
Double use of courses to satisfy more than one requirement in a student’s degree program is not allowed. A course successfully completed by a student and listed in the requirement of the student’s degree program as part of the requirements of both the major and the minor the student is enrolled in will be counted towards the major unless the student satisfies the requirements for the major without the use of the course (e.g. course listed in the major electives). In replacement of courses listed in the requirements for the minor that were already counted as part of the major, students must complete additional courses to satisfy the minor requirements in accordance with the following:

- The additional courses to be completed by students to satisfy the minor requirements should be identified and approved by the program offering the minor at the time when students declare their minor.
- In case the additional courses were not identified when students declared their minor, students must consult with the program offering the minor to identify additional courses that may be completed by the student to satisfy the minor requirements and to ensure that the additional courses will allow the student to complete the credit hour requirements for the minor. Subject to approval by the program offering the minor, these additional courses may be taken from the minor elective courses.

College Degree title Major Total number of credit hours
Arts and Sciences Bachelor of Arts Arabic Language 120
English Literature & Linguistics 120
Policy Planning & Development 120
Psychology 120
History 120
International Affairs 120
Mass Communication 126
Social Work 120
Sociology 120
Biological Sciences 120
Chemistry 120
Sport Sciences 120
Statistics 120
Environmental Sciences (Concentration area in Marine Sciences) 125
(Concentration area in Biotechnology) 126
Mathematics 120
Human Nutrition 132
Biomedical Sciences 135
Public Health 120
Physical Therapy 139
Health Sciences Bachelor of Science Medicine Medical Doctor 40 CH and 300 ECTS

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:

<table>
<thead>
<tr>
<th>College</th>
<th>Degree title</th>
<th>Major</th>
<th>Total number of credit hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arts and Sciences</td>
<td>Bachelor of Arts</td>
<td>Arabic Language</td>
<td>120</td>
</tr>
<tr>
<td></td>
<td>English Literature &amp; Linguistics</td>
<td>120</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Policy Planning &amp; Development</td>
<td>120</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Psychology</td>
<td>120</td>
<td></td>
</tr>
<tr>
<td></td>
<td>History</td>
<td>120</td>
<td></td>
</tr>
<tr>
<td></td>
<td>International Affairs</td>
<td>120</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mass Communication</td>
<td>126</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Social Work</td>
<td>120</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Sociology</td>
<td>120</td>
<td></td>
</tr>
<tr>
<td>Health Sciences</td>
<td>Bachelor of Science</td>
<td>Medicine Medical Doctor</td>
<td>40 CH and 300 ECTS</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 to a failing grade. Any student who fails to complete all the course 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 "I" 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 grade should contact the course instructor as soon as possible. If the student is not satisfied with the decision of the course instructor, the student may submit a written appeal directly to the Associate Dean of the College. The appeal will be reviewed by a committee that will assess whether proper procedures were followed regarding the grade change. If the decision of the committee is not satisfactory, the student may appeal to the Registration Department. The department will consult with the relevant faculty in the Department before making a decision regarding the grade change. Should the course instructor also be involved in the appeal process, the student should submit a written appeal to the Associate Dean of the College.

Academic Probation
A student who believes that he/she has received an unfair grade may contest the grade to the instructor or the Department Head. A student who believes that he/she has received an unfair grade to 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 to the Vice President for Student Affairs. The appeal will be reviewed by a committee that will assess whether proper procedures were followed and will make a decision regarding the grade change. Once the decision is made, the student will be notified of the decision by email.

Academic Dismissal
A student who believes that he/she has received an unfair grade may appeal to the Registration Department. If the appeal is denied, the student may appeal to the Academic Probation Committee. The Academic Probation Committee will review the appeal and make a decision regarding the grade change. If the decision of the committee is not satisfactory, the student may appeal to the Registrar. The Registrar will consult with the relevant faculty in the Department before making a decision regarding the grade change. Should the course instructor also be involved in the appeal process, the student should submit a written appeal to the Registrar.

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

Once placed on academic probation, students have two (2) consecutive 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.

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, Final Probation, or receiving an Academic Warning for failing a course twice. These students must meet with their academic advisor before registering in classes offered in the following semester. Students placed under Academic Probation or Final Academic Probation may apply for transfer to another program subject to the university rules and regulations.

The summer term is not considered for Academic Probation decisions unless the case of removing the probation once the cumulative GPA satisfy 2.00 or above .

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

• 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 Dismissal is noted on student transcript and academic records.

Appealing Academic Dismissal
Any Qatar University student who is dismissed from the institution for academic deficiency may appeal 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. If the student is not eligible 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 for the first time from the institution for academic deficiency may apply for reinstatement within an application period of a maximum of 10 years since the original 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 withdrew after academic dismissal or may be transferred to a different college as part of their reinstatement.
• 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 QU coursework and cumulative GPA earned prior to academic dismissal will remain on the academic record. The student will be reinstated as Good Standing.
B. Reinstated students may be considered for possible transfer credit into QU’s program.

Repeating a Course
A student may repeat any course taken at Qatar University on which a grade of “E” was earned. The following applies to all students repeating a course:
• 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 total number of credit hours required for graduation.
• Courses transferred from another accredited college or university cannot be repeated for additional credit.
• For all courses repeated, the lower grade obtained in the attempt(s) of the course will be excluded from the cumulative GPA calculation and only the highest grade obtained in the attempts will be 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 that the attempt(s) excluded from the cumulative GPA calculation, while a notation of “R” denotes the attempt included in the cumulative GPA calculation.
• The degree GPA will not be changed for any courses repeated after the degree is awarded.

Auditing Courses
QU allows a student to enroll in courses on a non-credit basis. To audit a course, a student must receive 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 obligated 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 the following semester, the student must be re-enrolled in the course 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 environment such as a company, business, laboratory, or governmental project. The academic department determines the number of credit hours awarded to the 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, the department head, and the 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 internship in which they wish to intern. At the time of application, the student must have a full-time status and be and good academic standing at the University. Maintaining an internship requires satisfactory 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.

Study Away
Students wishing to participate in Study Away should obtain pre-approval from the QU Registration Department. Courses transferred from receiving Study Away credit are considered for possible transfer credit by the relevant QU academic department upon return to QU.

To be eligible for transfer credit consideration, Study Away applicants must have earned a minimum of 24 semester credit hours at the receiving university. The total number of credit hours transferred must equal the total number of credit hours required for graduation from QU. All coursework transferred from Study Away courses will receive transfer credit. Students participating in Study Away may not exceed QU’s maximum credit load for the academic semester. Students are required to satisfy the QU course pre-requisites in order to receive transfer credit for Study Away courses.

Transferring Credits to QU
Qatar University students may take courses at other accredited colleges or universities, and this academic credit may be transferred to QU under the following conditions:
• The student submits an application to the Registration Department, along with all official transcripts and course syllabi from the colleges and universities attended. The content of the transferred courses must match 90% of the course content of the course equivalents at QU. Courses with a grade of “C” or above are transferable.
• The respective academic department at QU will make the final decision on transfer of credit into its program. Coursework taken at accredited universities or colleges and transferred to QU will receive a Transfer Credit grade of “TC” and will not be included in the QU GPA calculation. Students participating in Study Away may not exceed QU’s maximum credit load for the academic semester. Students are required to satisfy the QU course pre-requisites in order to receive transfer credit for Study Away courses.

Applications seeking remission may request to eliminate the effect of up to four courses from their cumulative records and cumulative GPA, provided that a grade of “F,” “D,” or “D+” was earned. The student must not have previously been found in violation of the academic integrity policy in any of the concerned courses, and the applicant may only benefit from academic credit for one course. The student’s cumulative GPA elimination shall not be used towards satisfying the program degree requirements, including the program credit hour requirements, unless the student registers and successfully completes these courses after remission. The cumulative records include the cumulative GPA of readmitted students who were not academically dismissed from the university or placed under the “Foundation Academic Suspension” status. The records take into account all courses completed and grades earned within ten (10) years prior to the student’s semester of readmission to the university, except for courses approved for elimination from the student’s cumulative records, or if the student requests to return with a fresh record. Courses completed more than ten (10) academic years prior to the semester of readmission by readmitted students who were not academically dismissed from the university or placed under the “Foundation Academic Suspension” status, are not academically counted towards the student degree program or in the cumulative records of the student. To be eligible for transfer credit, courses must be reviewed for eligibility by the academic program in order to be counted towards the degree and to affect the cumulative records of the student, including the student’s cumulative GPA.

Students seeking readmission may request to return with a fresh record where courses and grades earned prior to the student’s readmission remain on record and on the student QU transcript, but are not counted towards degree requirements and are not counted towards the cumulative student records, including the calculation of the student cumulative grade point average (GPA).
Academic Achievement Awards

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

1. The Order of Excellence Award
   To be eligible for the Order of Excellence award, bachelor's degree graduates must satisfy the following requirements:
   - Attained or expected to attain a minimum overall GPA of 3.9 by the end of their semester of graduation.
   - Never received a grade less than 'B' during their undergraduate studies at the university.
   - Never received a written disciplinary warning or sanction during their studies at the university.

2. The High Distinction Award
   To be eligible for the High Distinction award, bachelor's degree graduates must satisfy the following requirements:
   - Attained or expected to attain a minimum cumulative GPA of 3.5 and 3.69 by the end of their semester of graduation.
   - Attained or expected to attain a minimum cumulative GPA of 3.9 by the end of their semester of graduation.
   - 3.5 and 3.69 by the end of their semester of graduation.
   - 3.9 by the end of their semester of graduation.
   - Never been placed on academic probation during their studies at the university.
   - Never received a written disciplinary warning or sanction during their studies at the university.
   - Never received a written disciplinary warning or sanction during their studies at the university.

3. The Distinction Award
   To be eligible for the Distinction award, bachelor's degree graduates must satisfy the following requirements:
   - Never received a written disciplinary warning or sanction during their studies at the university.

Student Life Awards

The University bestows special student life awards to students who have demonstrated exceptional contributions in the areas of campus life, student organizations, volunteering, athletics and career services. These awards are designed to recognize and acknowledge students who have contributed effectively to the university community.

1. Student Clubs and Organizations Award
   This award is presented to a male and a female student who have contributed effectively to the university community in the areas of campus life, student organizations, volunteering, athletics and career services. The evaluation Committee will implement the following criteria in its assessment of submitted nominations:
   - Completed a minimum of 30 credit hours.
   - Been registered in a student organization at Qatar University at the time of application.
   - Completed a minimum of 30 credit hours.
   - Participated in volunteer work for at least 50 hours.

2. Student Employment Award
   This award is presented to a male and a female student who participated in the Student Employment Program at the University. The evaluation Committee will implement the following criteria in its assessment of submitted nominations:
   - Demonstrated commitment to sport ethics in university activities.
   - Made remarkable achievements in university sport activities.

3. Student Athletic Award
   This award is presented to a male and a female student who have contributed effectively to the university community in the areas of campus life, student organizations, volunteering, athletics and career services. The evaluation Committee will implement the following criteria in its evaluation of submitted nominations:
   - Demonstrated a clear role in the achievement of the student organization's goals.
   - Contributed to the creation of a teamwork culture within the student organization.

4. A student who has previously won an award is not eligible to apply again for the same award category.

Awards Categories

Student Leadership Award

This award is presented to a male and a female student who demonstrated distinguished leadership attributes and behaviors in student campus life. The evaluation criteria will implement the following criteria in the assessment of submitted nominations:

1. Demonstrated commitment to boost student engagement and participation in campus life and the University.
2. Demonstrated clear capabilities to solve problems, adapt to changing situations, and challenges in a constructive and creative manner.

Student Clubs and Organizations Award

This award is presented to a male and a female student who has demonstrated distinguished leadership attributes and behaviors in student campus life. The evaluation committee will implement the following criteria in the assessment of submitted nominations:

1. Student Clubs and Organizations Award

STUDENT LIFE AWARDS

The University bestows special student life awards to students who have demonstrated exceptional contributions in the areas of campus life, student organizations, volunteering, athletics and career services. These awards are designed to recognize and acknowledge students who have contributed effectively to the university community.

1. Student Clubs and Organizations Award
   This award is presented to a male and a female student who have contributed effectively to the university community in the areas of campus life, student organizations, volunteering, athletics and career services. The evaluation Committee will implement the following criteria in its assessment of submitted nominations:
   - Completed a minimum of 30 credit hours.
   - Been registered in a student organization at Qatar University at the time of application.
   - Completed a minimum of 30 credit hours.
   - Participated in volunteer work for at least 50 hours.

2. Student Employment Award
   This award is presented to a male and a female student who participated in the Student Employment Program at the University. The evaluation Committee will implement the following criteria in its assessment of submitted nominations:
   - Demonstrated commitment to sport ethics in university activities.
   - Made remarkable achievements in university sport activities.

3. Student Athletic Award
   This award is presented to a male and a female student who have contributed effectively to the university community in the areas of campus life, student organizations, volunteering, athletics and career services. The evaluation Committee will implement the following criteria in its evaluation of submitted nominations:
   - Demonstrated a clear role in the achievement of the student organization's goals.
   - Contributed to the creation of a teamwork culture within the student organization.

Volunteering Award

This award is presented to a male and a female student who has contributed effectively to the university volunteering activities. The evaluation criteria will implement the following criteria in the assessment of submitted nominations:

1. Demonstrated commitment to sport ethics in university activities.
2. Made remarkable achievements in university sport activities.
3. Demonstrated a clear role in the achievement of the student organization's goals.
4. Contributed to the creation of a teamwork culture within the student organization.
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.

CHAPTER 9
HONORS PROGRAM

GAD-01, GAD-02 Female Classroom Building (GCR) 102, 103, 104 Men’s Engineering Building (Corridor F, Zone B)
Phone: (+974) 4403-4990 / 4992 / 4993 / 4994 / 4995 / 4996
Email: quhonors@qu.edu.qa
Website: http://www.qu.edu.qa/honors_program

ABOUT THE PROGRAM
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.

VISION
The Honors Program aspires to be the model and the catalyst for excellence in Qatar University, renowned for its quality academic program and inspiring initiatives, wherein highly qualified students are prepared to be the leaders of tomorrow.

Program OBJECTIVES
The objectives of the Honors program:
• Position the Honors Program as an attractive choice for high achieving students in a competitive higher education market in Qatar.
• Recruit qualified students to the Honors Program
• Attract competent faculty who would build an intellectually challenging environment.
• Acquire resources to establish and maintain an enriched academic environment for students and faculty in the Honors Program.
• Provide an enriched interdisciplinary curriculum, including capstone activities that challenge the students to use their intellectual capabilities to the fullest.
• Apply specific learning outcomes for the students and measurement systems for program evaluation.

PROGRAM LEARNING OUTCOMES
The program learning outcomes for the Honors program are:
- Develop interdisciplinary perspectives on contemporary and current issues
- Develop ability to conduct quality research or scholarship in their disciplines
- Demonstrate advanced oral and written communication skills
- Develop advanced level of critical thinking and problem solving skills
HONORS BENEFITS
• Recognition at graduation and on student transcript of successful participation in a challenging, high-quality honors program.
• Innovative courses created especially for the Honors Program by outstanding scholars and teachers.
• Honors scholarships limited to 3 Honors students per year. The awardee student for the scholarship must remain in the Honors Program and maintains a GPA of 3.5.
• A number of annual awards for top Honors students.
• Wide opportunities for participating in local and international conferences, trips and events.
• Full and partial waiver of membership fees for QU clubs.
• Recognition at graduation and on student transcript of successful participation in a challenging, high-quality honors program.
• Innovative courses created especially for the Honors Program by outstanding scholars and teachers.
• Honors scholarships limited to 3 Honors students per year. The awardee student for the scholarship must remain in the Honors Program and maintains a GPA of 3.5.
• A number of annual awards for top Honors students.
• Wide opportunities for participating in local and international conferences, trips and events.
• Full and partial waiver of membership fees for QU clubs.

HONORS ADMISSION REQUIREMENTS

For newly admitted undergraduate students:
• Minimum of 90% or higher score on high school transcripts 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 semesters.
4. 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 or who has withdrawn from the Honors Program may apply for reinstatement to the program. A student who has been dismissed or has withdrawn 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 will consult with the Honors council and decide whether the student is to be reinstated.

HONORS STUDENT ADMISSION

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.

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.)

TYPICAL HONORS SEQUENCE (FALL 2013)*

Credit Hours Courses
3 Freshman Seminar (Honors Core 1)
6 Two University Core Curriculum Program Courses from different packages (Honors Core 2, Honors Core 3)
9 Three Major-based Honors Courses (300-400 level)
6 Honors Senior Seminar 498, Honors Thesis 499 (Senior Project, Senior Seminar, Cap-stone, etc.)
24 Total Program Credit Hours*

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.

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.

HONORS BENEFITS

• Full and partial waiver of membership fees for QU clubs.
• Wide opportunities for participating in local and international conferences, trips and events.
• A number of annual awards for top Honors students.
• Recognition at graduation and on student transcript of successful participation in a challenging, high-quality honors program.

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 qphonors@qu.edu.qa.
CHAPTER 10
FOUN DATION PROGRAM

Foundation Building (D05 Women’s Section; A06 Men's Section)
Phone (Men): +974 4403-5324
Phone (women): +974 4403 5328
Email: foundation@qu.edu.qa
Website: http://www.qu.edu.qa/foundation/

Acting Director
Hezam Abdullah Al-Awah
Phone: +974 4403 5300
Fax: + 974 4403 5301
Email: foundation@qu.edu.qa

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 English language and Mathematics for their study at Qatar University. All Qatar University students who register in Foundation-level courses are provided opportunities to develop their academic abilities in preparation for degrees in Science, Engineering, Medicine, and Pharmacy at Qatar University.

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

MISSION
The Foundation Program is committed to developing students’ English language proficiency and math skills to a level that will allow them to succeed in the academic programs of Qatar University. Through innovative, research-based educational practices, the program aims to help students achieve academic readiness by fostering their intellectual curiosity. As they develop their knowledge through study skills and critical thinking, students will integrate independent and collaborative learning with the appropriate use of information technology.

OVERVIEW
The Foundation Program is composed of two academic departments, one academic support unit, and a testing center. The academic departments are the Department of English and the Department of Math, while the other two entities are: the Student Affairs Section and the Qatar University Testing Center. The Foundation Program offers up to 25 contact hours per week (21 hours in English, 4 hours in math) for foundation-level students. In addition, both the Departments of English and Math provide online resources to help students practice their mathematics and English skills independently, outside of the classroom.

All new students who intend to major in science, engineering, medicine or pharmacy at Qatar University must register for Foundation Program courses, or submit evidence of the required scores on the ACT, SAT, TOEFL or IELTS. Students must complete all courses required by the Foundation Program within the timeframe specified by university regulations. Foundation-level courses are not part of the undergraduate major study plans and therefore, these courses do not count towards an undergraduate or graduate degree.

Foundation Program Objectives:
Objective 1: Attain English oral and written language communication skills required to meet the minimum competency requirements of relevant academic degree programs offered at QU.
Objective 2: Demonstrate competency in mathematics knowledge and skills to meet the minimum competency requirements of relevant academic degree programs offered at QU.
Objective 3: Develop a learning-centered education and a socially motivating environment.
Objective 4: Develop critical thinking skills necessary for successful completion of academic tasks.

Foundation Program Learning Outcomes:
PLO 1: Interpret academic texts
PLO 2: Express ideas and facts effectively in writing
PLO 3: Use verbal skills to communicate effectively
PLO 4: Apply algebraic skills to solve mathematical problems
PLO 5: Interpret quantitative and graphic information
PLO 6: Apply requisite study skills
PLO 7: Demonstrate critical thinking skills

FOUNDATION PROGRAM STUDENT AFFAIRS SECTION
The Foundation Program provides a variety of academic support services and extracurricular activities to enhance students' English proficiency and math skill acquisition, as well as enrich students’ university life:
• Academic assistance: Success Zone, English language Tutoring Scheme, and Math Support Team enhance the acquisition of math and English skills and improve
students’ performance in courses.

Activities: The Fun Learning Zone, Acting & Drama Society, Cultural Awareness Team and FLAME club provide events, and competitions to improve students’ math and English skills in engaging ways. The Foundation Program liaises with relevant QU offices, such as Student Services, Student Activities, Student Affairs, Center for Academic Advising, Special Needs Office, and the Student Learning Support Center (SLSC).

FOUNDATION PROGRAM DEPARTMENT OF ENGLISH

Phone: +974 4403 5330
Email: fpde@qu.edu.qa

Foundation Program Department of English Mission Statement

The Foundation Program Department of English is committed to developing students’ English language proficiency to the extent that will allow them to succeed in the academic programs of Qatar University. Through innovative, research-based educational practices, the program aims to help students achieve academic readiness by fostering their intellectual curiosity. As they develop their knowledge through study skills and critical thinking, students will integrate independent and collaborative learning with the appropriate use of information technology.

FOUNDATION-LEVEL ENGLISH

The Foundation-level English courses work on developing students’ English language skills in reading, writing, listening, and speaking. Appropriate technology is integrated with activities to aid language skills development and to support autonomous learning. The Foundation English courses hold five-year accreditation from the Commission on English Language Program Accreditation (CEA).

Foundation-level English Courses Learning Outcomes

Students completing the Foundation English courses demonstrate adequate attainment of the following Learning Outcomes:

1. Interpret academic texts
2. Express ideas and facts effectively in writing
3. Use verbal skills to communicate effectively
4. Interpret aural 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

Length & Structure of the Foundation English Courses

The Foundation English consists of three-course packages, each of which is offered at the elementary and intermediate levels. The course packages are English Integrated Core, English Reading Workshop, and English Writing Workshop. Students may be placed in different levels in each package based on their scores in different sections of the placement test upon entering the Foundation Program. By completing the intermediate level of each course with at least a 70% score (C grade), students will complete the Foundation English requirements. Students are expected to complete the Foundation English courses in one year.

Placement Tests:

For further details on placement tests, please see below.

Course Completion or Exemption by Examination

Foundation English courses are designed to be completed over one or two semesters, depending on their entry level. Students complete the Foundation English requirements when they pass the intermediate level courses. However, they can also be fully exempted at any time when they obtain the required score on 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 language proficiency. The Foundation Program reserves the right to verify any certificate of test scores.

DEPARTMENT OF MATHEMATICS

Phone: +974 4403 5500
Email: fmnc@qu.edu.qa

Department of Mathematics Mission Statement

The Foundation Program Department of Mathematics (FPDM) provides an inclusive and engaging learning environment, which prepares students to be successful in college-level mathematics courses so that career and academic choices can be based on an individual’s abilities and interests. Through a student-centered learning environment, faculty members assist students to achieve proficiency in logical thinking, problem solving and other basic mathematical skills needed to be successful in achieving their academic goals.

Learning Outcomes

FPDM’s main purpose is to equip students by focusing on developing their mathematical skills, in preparation for their subsequent entry into academic programs at Qatar University. Upon successfully completing the courses, students will be able to:

- Apply algebraic skills to solve mathematical problems;
- Interpret quantitative and graphic information;
- Apply required study skills;
- Demonstrate critical thinking skills.

Placement Tests:

For further details on placement tests, please see below.

Length and Structure of the Elementary Algebra Course (Math 021)

This course is designed for students who require a review of elementary algebra before taking further university mathematics courses. The course provides students with the basic skills in mathematical operations of real numbers, linear and quadratic equations and their graphs, polynomials, factoring, rational expressions, and radicals. This course prepares students for the Math P100 (pre-calculus) course. Since it is a non-credit course, it will not be counted towards students’ undergraduate degree. It is a four hour per week course (3 hours in the class and 1 hour in the lab). Students complete the Foundation Math when they achieve a score of at least 70% (C) in the Elementary Algebra course.

Placement Tests:

Placement tests may be conducted at Qatar University Testing Center.

Foundation English Courses

<table>
<thead>
<tr>
<th>Integrated Core</th>
<th>Reading Workshop</th>
<th>Writing Workshop</th>
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ACCUPLACER ESL Components

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<th>APIC</th>
<th>APRS</th>
<th>APWS</th>
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</thead>
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<td>269</td>
<td>63</td>
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</table>

Exemption from Elementary Level course

<table>
<thead>
<tr>
<th>Exemption from Intermediate Level course</th>
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<tbody>
<tr>
<td>400</td>
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</table>

QATAR UNIVERSITY TESTING CENTER (QUTC)

Location: A06 (Men’s) Foundation Building/12 (College of Medicine Building)

Email: qutc@qu.edu.qa

Phone: +974 4403 5022

Full exemption from Foundation English courses through international English tests

<table>
<thead>
<tr>
<th>IELTS</th>
<th>TOEFL</th>
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<tr>
<td>5.5</td>
<td>100</td>
</tr>
</tbody>
</table>

Math Test

Required score for exemption from Elementary Algebra Course (Math 021)

Required score for exemption from Pre-Calculus (Math P100)

| ACT* | 21 | 24 |
| SAT (old) | 500 | 550 |
| SAT (new) | 530 | 570 |

ACCUPLACER Math

82 in Elementary Algebra (EA) component

95 in College Level (CL) component
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 sufficient for students to take courses in only the field of their 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 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 local and international changes and participate in how they are expressed.
3. Develop communication skills in Arabic and in English.
4. Acquire higher order thinking skills and the basics of scientific research.

LEARNING OUTCOMES

At the end of the Core Curriculum Program, students should be able to:
1. Appreciate Islamic values and morals in a way that prepares them to accept others.
2. Recognize the nature of Qatari society historically, geographically and socially, to reinforce allegiance to the country.
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 Curriculum 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. Generally, the Core courses 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 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 26 credit hours are 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, 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 107 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 150 Essay Writing I
- ENGL 151 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 the CCP defined Social/Behavioral Sciences package including:

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

**Natural Science/Mathematics package (3 CH)**
A minimum of 3 credit hours from courses listed in the CCP defined Natural Science/Mathematics package including:

- ARAB 101 Arabic I
- ARAB 201 Arabic II
- ARAB 107 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 150 Essay Writing I
- ENGL 151 Advanced Reading Comprehension
- ENGL 202 English Language I – Post Foundation
- ENGL 203 English Language II – Post Foundation
- DAWA 111 Islamic Culture

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

- ARAB 221 Classical Arabic Poetry I
- ARAB 326 Literary Analysis
- ARAB 482 Contemporary Gulf Literature
- DAWA 117 Ethics
- DAWA 202 Introduction to General Philosophy
- DAWA 305 Modern Philosophy
- ENGL 155 Introduction to Language
- ENGL 156 Introduction to Literature I
- 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 304 Arabian Gulf in Antiquity
- HIST 416 History of Islamic Arts and Architecture
- HONS 101 Honors Freshman Seminar for Humanities
- 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 the courses listed below.

- HIST 101 History of Qatar
- HIST 222 The Gulf in Modern Period
- HIST 421 The Gulf and the Arab World
- HIST 325 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 Knowledge 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 203 Principles and Methodology of Dawah
- DAWA 206 International Organizations & Human Rights
- DAWA 106 Foundation in Education in Qatar and School Reform
- HONS 101 First Year Seminar
- INTA 100 Political and Social Thoughts
- INTA 103 Introduction to International Relations
- INTA 200 Study and Practice of Diplomacy
- ISLA 202 Logic and Research Methodology
- LAWC 101 Introduction to Law
- MGMT 101 Principles of Management
- STAT 101 Statistics 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.
CHAPTER 12
COLLEGES, ACADEMIC DEPARTMENTS, AND DEGREES

COLLEGE OF ARTS AND SCIENCES

College of Arts and Sciences
Men’s Section, Corridor 2, Dean’s Office B111
Phone: (974) 4403-4500
Email: cas@qu.edu.qa
Website: http://www.qu.edu.qa/artssciences/

Dean
Rashid Al-Kuwari

Associate Dean for Research and Graduate Studies
Ibrahim Mohamed Alkaabi

Associate Dean for Academic Affairs
Ahmed AbuShouk

Assistant Dean for Student Affairs
Muneera Al-Subaiey

ABOUT THE COLLEGE

The College of Arts and Sciences (CAS) aspires to provide the foundation of liberal education, quality academic research, and educational programs to contribute to the development and advancement of human thought, values and the changing societal needs of the 21st century. The College of Arts and Sciences offers a variety of quality academic programs in both arts and sciences to fulfill the teaching, research and service missions of the university. The College is dedicated to enhancing and disseminating knowledge through research, quality instruction, critical thinking, global learning and community service. CAS fosters an open and supportive learning environment to attract a diverse student body and distinguished faculty who are committed to research and teaching excellence.

DEGREE OFFERINGS

The College of Arts and Sciences offers the following undergraduate degree programs:

• Bachelor of Arts in Arabic Language
• Bachelor of Arts in English Literature and Linguistics
• 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 Chemistry
• Bachelor of Science in Environmental Science
• Bachelor of Science in Statistics
• Bachelor of Science in Sport Science
• Bachelor of Science in Mathematics

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 French
• Minor in Spanish
• Minor in Turkish
• 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

Women’s Main Building - Room 112
Phone: (974) 4403-4820/4823 Fax: (974) 44034821
Email: headdeparabic@qu.edu.qa
Website: http://www.qu.edu.qa/artssciences/arabic/

Head
Maryam A. Rahman Al-Naemi

Faculty

Professors:
Salama Abdullah Al-Sowadi, Ahmad Yousuf, Rachid Bouziane, Mubarak Hanoun

Associate Professors:
Fatima Al-Sowaidi, Habib Bouherou, Abdoul Salam Hamed, Mahmoud AlJassam, Maryam Al-Naemi, Hafid Ismail, Inteman Smadi, Hailham Sarhan, Loui Khalil, Abdelkader Feydouh, Mahmoud Alyosef Youssef

The objectives of the Arabic Language major are 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 use the 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, cultural 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 assistants.
- Teaching in the educational field.
- Working as a 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.

Admissions Requirements

Applicants must satisfy QU defined College and Program requirements including the minimum high school percentage requirement, a written test, and a personal interview. Detailed Undergraduate admission requirements are available at the following link: http://www.qu.edu.qa/sites/en_US/students/admission/undergraduate

Declaring the major

Students must satisfy QU requirements for declaring a major including the need to declare the major before completing 36 undergraduate credit hours.

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 from free electives.

Core Curriculum Requirements (33 CH)

Common package (15 CH)

- ARAB 110 Introduction to Literature and Language
- ENGL 111 English I
- ENGL 111 English II
- DAWA 111 Islamic Culture

Literature Concentration Core Requirements (15 CH)

Students must complete a minimum of 15 credit hours in Linguistics concentration core requirements from the courses listed below:

- ARAB 225 Qatari Folk Literature
- ARAB 226 Prosody and Metrics
- ARAB 352 Philology
- ARAB 354 Semantics
- ARAB 355 Applied Linguistics

Concentration in Linguistics (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.

Linguistics Concentration Electives I (6 CH)

- ARAB 226 Prosody and Metrics
- ARAB 352 Philology
- ARAB 354 Semantics
- ARAB 355 Applied Linguistics

Linguistics Concentration Electives II (3 CH)

- ARAB 412 Readings and Linguistics Traditions
- ARAB 434 Orientalism and its Criticism
- ARAB 464 Socio-Linguistics
- ARAB 491 Topics in contemporary Arabic thought

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:

- ARAB 319 Grammar II
- ARAB 331 Classical Arabic Criticism
- ARAB 351 Introduction to Linguistics
- ARAB 381 Modern and Contemporary Arabic Poetry
- ARAB 481 Modern Literary Criticism
- ARAB 483 Comparative Literature

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- ENGL 110 English I
- ENGL 111 English II
- DAWA 111 Islamic Culture

Social/Behavioral Sciences package (3 CH)

Courses in the CCP defined Social/Behavioral Sciences 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 part of the Humanities/Fine Arts package.

Natural Science/Mathematics package (3 CH)

Courses in the CCP defined Natural Science/Mathematics package.

Supplemental College / Program Core Requirements Packages (3 CH)

- UNIV 100 First Year Seminar

General Knowledge package (3 CH)

Courses in the CCP defined General Knowledge package.

General Skills package (3 CH)

Courses in the CCP defined General Skills package.

Major Requirements (33 CH)

- ARAB 213 Grammar I
- ARAB 218 Morphology
- ARAB 221 Classical Arabic Poetry I
- ARAB 224 Classical Arabic Prose
- ARAB 261 Rhetoric

88 89

Professor:

Lecturers:

Assistant Professors:

Courses in the CCP defined General Skills package.

Courses in the CCP defined Social/Behavioral Sciences package.
Literature Language Requirements I sub-package (6CH)
- ARAB 271 Persian Language I
- ARAB 372 Persian Language II

Literature Language Requirements II sub-package (6CH)
- TURK 101 Turkish I
- TURK 201 Turkish II

Literature Concentration Electives I (6 CH)
- ARAB 223 Classical Arabic Poetry
- ARAB 262 Prosody and Metrics
- ARAB 382 Modern Narratives
- ARAB 482 Contemporary Gulf Literature

Literature Concentration Electives II (3 CH)
- ARAB 327 Readings in Literary Tradition
- ARAB 434 Orientalism and its Criticism
- ARAB 484 Sociology of Literature
- ARAB 491 Topics in Contemporary Arab Thought

Minor Requirements (24 CH)
Students must complete a minor offered at the university other than the minor in Arabic Language. If the selected minor requires less than 24 CH the student must take additional free electives to complete the 24 CH requirements.

Free Electives (6 CH)
Students must take 6 credit hours from courses outside the Arabic major.

Study Plan
Bachelor of [Arabic Language] in [Concentration: Linguistics]

FIRST YEAR (30 credit hours)

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<td>DAWA 111</td>
<td>Islamic Culture</td>
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<td>ARAB 221</td>
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<td>Introduction to Literature and Language</td>
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<td>ARAB 213</td>
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SECOND YEAR (30 credit hours)

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<td>Morphology</td>
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<td>Core Curriculum</td>
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<td>ARAB 261</td>
<td>Rhetoric</td>
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<td>Grammar II</td>
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THIRD YEAR (30 credit hours)

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<td>ARAB 483</td>
<td>Comparative Literature</td>
<td>3</td>
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<td>ARAB 261</td>
<td>Rhetorics</td>
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<td>ARAB Literature Concentration Electives I</td>
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<tr>
<td>Spring</td>
<td>ARAB 261</td>
<td>Rhetorics</td>
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<td></td>
<td>ARAB Literature Concentration Electives I</td>
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<td>ARAB 271 OR TURK 101</td>
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FOURTH YEAR (30 credit hours)

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<td>ARAB 381</td>
<td>Modern and Contemporary Arabic Poetry</td>
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Study Plan
Bachelor of [Arabic Language] in [Concentration: Literature]

FIRST YEAR (30 credit hours)

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SECOND YEAR (30 credit hours)

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<td>Arabian Language I</td>
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Students must complete a minimum of 6 CH in the Arabic Minor Electives (12 CH):
- ARAB 261 Rhetoric
- ARAB 221 Classical Arabic Poetry I
- ARAB 218 Morphology
- ARAB 213 Grammar I

Students must complete a minimum of 12 credit hours in Minor Requirements (12 CH):

- A minimum of 12 credit hours in Minor Electives

Students seeking a minor in Arabic must complete a Turkish Placement Test. Admission into the minor program of study is competitive and will be based on a recommendation by the relevant committee at the program and/or college level.

Minor in Turkish (24 CH)

Students seeking a minor in Turkish 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 Electives I Package (6 CH)

Students must complete a minimum of 6 CH from the following Minor electives courses:
- ARAB 262 Prosody and Metrics
- ARAB 319 Grammar II
- ARAB 351 Introduction to Linguistics
- ARAB 352 Philology
- ARAB 364 Semantics

Arabic Minor Electives II Package (6 CH)

Students must complete a minimum of 6 CH from the following Minor electives courses:
- ARAB 223 Classical Arabic Poetry
- ARAB 331 Classical Arabic Criticism
- ARAB 381 Modern and Contemporary Arabic Poetry
- ARAB 481 Modern Literary Criticism
- ARAB 482 Contemporary Gulf Literature
- ARAB 483 Comparative Literature

Minor in Turkish provides students with expertise and knowledge in Turkish Language and Literature via highly elected courses.

Declaring the minor

Applicants for the minor in Arabic must satisfy QU requirements for declaring a minor.

Minor Requirements (12 CH)

Students must complete a minimum of 12 credit hours in Minor requirements:
- ARAB 213 Grammar I
- ARAB 218 Morphology
- ARAB 221 Classical Arabic Poetry I
- ARAB 262 Prosody and Metrics

Minor Electives (12 CH)

Students must complete a minimum of 6 CH in the Arabic Minor Electives I Package and a minimum of 6 CH in the Arabic Minor Electives II Package.

Turkish Minor Electives (6 CH)

Students must complete a minimum of 6 CH from the following courses:
- TURK 101 Turkish I
- TURK 111 Aspects of Turkish Culture
- TURK 201 Turkish II
- TURK 211 Introduction to Turkish Literature
- TURK 300 Turkish Reading & Speaking
- TURK 303 Turkish Writing

Minor in Turkish

The minor in Turkish provides students with expertise and knowledge in Turkish Language and Literature via highly elected courses.

Declaring the minor

Applicants for the minor in Turkish must satisfy QU requirements for declaring a minor. In addition, applicants must complete a Turkish Placement Test. Admission into the Turkish minor program of study is competitive and will be based on a recommendation by the relevant committee at the program and/or college level.

Minor in Turkish (24 CH)

Students seeking a minor in Turkish must complete a minimum of 24 credit hours, including the following:
- A minimum of 18 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 requirements:
- TURK 101 Turkish I
- TURK 111 Aspects of Turkish Culture
- TURK 201 Turkish II
- TURK 211 Introduction to Turkish Literature
- TURK 300 Turkish Reading & Speaking
- TURK 303 Turkish Writing

Minor Electives (6 CH)

Students must complete a minimum of 6 CH from the following courses:
- TURK 401 Modern Turkey: From an Empire to a Nation
- TURK 402 Turkish Listening & Conversation
- TURK 400 Turkish for Specialization
- TURK 404 Topics in Turkish Literature and Culture

DEPARTMENT OF ENGLISH LITERATURE AND LINGUISTICS

Women's Main Building, Room 145 (Women's Section)
Phone: (974) 4403-4917
Email: m.gammaz@qu.edu.qa / arwa.k@qu.edu.qa
Website: http://www.qu.edu.qa/artsandsciences/english/index.php

Head
Ali Idrissi

Faculty
Professors:
Haita Al-Buainain
Associate Professors:
Danisli Al-Emadi, Ali Idrissi, Irene Theodoropoulou, Rizwan Ahmad

Assistant Professors:
Aleksandra Slavic, Amy Christmas, Eiman Mustatawi, Hisham Jawad, Julieta Alos, Mark Scott, Michael Grosvold, Stephen Markve, Tarq Khwailed, Thomas Ross Griffin, Tristan Major, Yomna Ismail, Vladimir Kulikov.

Lecturers:
Igial Ahmed, John Heryth

Teaching Assistants:
Afra Hassan Al-Kholifi, Afra Mubarak Al-Qahtani, AlReem Al-Kaabi, Dana Al-Adha, Fatima Al-Abdulla, Noora Al-Kaabi, Reem Al-Amri, Zaiha Al-Mari

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 meet the challenges of 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

The major in English Literature and Linguistics strives to:
- 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.

LEARNING OUTCOMES

- Demonstrate the ability to read, communicate and write clearly in English.
- Apply the tools of linguistic analysis to English and other languages.
- 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

Gradsuates with a major in English Literature and Linguistics will be qualified to work as English teachers, translators, and in the fields of communication and language industry. 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. They may also pursue graduate studies in linguistics or literature.

ADMISSIONS REQUIREMENTS

Applicants must satisfy QU defined College and Program requirements including the minimum high school percentage requirement and a minimum score of 5.5 on the IELTS or 61 on the TOEFL iBT. In addition, applicants must score above the cut-off percentage in the entrance interview held by the Department.

Detailed Undergraduate admission requirements are available at the following link:

Declaring the major

Students must satisfy QU requirements for declaring a major including the need to declare the major before...
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 in Literature.
• 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)
Students must complete a minimum of 3 Credit Hours from the CCP-defined Social/Behavioral Sciences package.

Humanities /Fine Arts package (3 CH)
Students must complete a minimum of 3 Credit Hours from the 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 a minimum of 3 Credit Hours from the CCP-defined Natural Science/Mathematics package.

Supplemental College / Program Core Requirements Package (3 CH)
• UNIV 100 First Year Seminar

General Knowledge package (3 CH)
Students must complete a minimum of 3 Credit Hours from the CCP-defined General Knowledge package.

General Skills package (3 CH)
Students must complete a minimum of 3 Credit Hours from the 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 208 Literary Criticism
• ENGL 226 History of the English Language
• ENGL 230 Professional Writing
• ENGL 499 Capstone Course (Integrated Skills)

Concentration in Linguistics (24 CH)
Students 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 6 credit hours in concentration core requirements:
• ENGL 216 Phonetics & Phonology
• ENGL 301 Syntax
• ENGL 303 Special Linguistics

Linguistics Concentration Electives (15 CH)
Students must complete a minimum of 15 credit hours in concentration electives from specific packages. Students must complete 3 CH in each of the Language Across Disciplines: Language and Society, Language and Culture, and Language and Gender. Students must complete 3 CH in each of the Language Across Disciplines: Language and Psychology, Language and Meaning, Research Techniques, and Linguistics Special Topics packages.

Language Across Disciplines Package (3 CH)
• ENGL 209 Language and Society
• ENGL 213 Language and Culture
• ENGL 233 Language and Computer
• ENGL 234 Language and Gender

Language and Psychology Package (3 CH)
• ENGL 305 First Language Acquisition
• ENGL 307 Psycholinguistics
• ENGL 309 Second Language Acquisition

Language and Meaning Package (3 CH)
• ENGL 319 Semantics
• ENGL 327 Discourse Analysis
• ENGL 401 Speech Sciences
• ENGL 403 Field Methods

Research Techniques Package (3 CH)
• ENGL 401 Speech Sciences
• 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 and a minimum of 15 CH in concentration electives.

Literature Concentration Core Requirements (9 CH)
Students must complete a minimum of 9 CH in concentration core requirements:
• ENGL 209 American Literature
• ENGL 302 Comparative Literature
• ENGL 304 Shakespeare

Literature Concentration Electives (15 CH)
Students must complete a minimum of 15 CH 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
• ENGL 322 Victorian Literature
• ENGL 393 Twentieth Century Literature

Genre package (3 CH)
• ENGL 326 Poetry
• ENGL 328 Drama
• ENGL 330 The Short Story
• ENGL 332 The Novel

Literature Special Topics package (3 CH)
• ENGL 400 Women’s Literature
• ENGL 402 Text and Film
• ENGL 404 Modernism
• ENGL 406 Post-Modernism
• ENGL 408 Post-Colonial Literature
• ENGL 424 Modern Drama
• ENGL 426 Children’s Literature
• ENGL 428 Topics in Literature
• ENGL 448 Independent Study

Minor requirements (24 CH)
Students enrolled in the English 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 (if applicable) (12 CH)
Students must complete a minimum of 12 credit hours in free electives from courses outside the English major and minor

Total Credit Hours in Semester 15

Core Curriculum

Total Credit Hours in Semester 15

Study Plan for Linguistics Track
Bachelor of Arts in English Literature and Linguistics

FIRST YEAR (30 credit hours)

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<th>Term</th>
<th>Course #</th>
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<td>ENGL 150</td>
<td>Essay Writing I</td>
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<td>ENGL 151</td>
<td>Advanced Reading Comprehension</td>
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<td></td>
<td>ENGL 155</td>
<td>Introduction to Language</td>
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<td>ENGL 156</td>
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<td>ENGL 157</td>
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<td>ENGL 158</td>
<td>Introduction to Literature II</td>
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SECOND YEAR (30 credit hours)

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### Study Plan for Literature Track
**Bachelor of Arts in English Literature and Linguistics**

#### FIRST YEAR (30 credit hours)

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#### SECOND YEAR (30 credit hours)

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<td>Literary Criticism</td>
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<td>Fall</td>
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<td>History of the English Language</td>
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<td>Capstone Course (Integr. Skills)</td>
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<td>Spring</td>
<td>ENGL 220</td>
<td>American Literature</td>
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#### FOURTH YEAR (30 credit hours)

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<td>ENGL 304</td>
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<tr>
<td>Fall</td>
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### 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 students to appreciate the diversity of languages and cultures.

#### Declaring the Minor
Applicants for the minor in English must satisfy QU requirements for declaring a minor. In addition to scoring a minimum of 5.5 on the IELTS or 61 on the TOEFL IBT, acceptance also depends on capacity.

#### 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.

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**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.
Declaring the Minor:
Applicants for the minor in Translation must satisfy QU admission requirements for declaring a minor. In addition, applicants must complete 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 Core Requirements:
- TRAN 301 Principles and Strategies of Translation
- SPAN 301 Media Translation I
- TRNS 302 Specialized Translation I
- TRNS 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
- TRNS 315 Specialized Translation II
- TRNS 401 Rhetoric for Translators

Minor in French
The Minor in French aims to build and expand students’ skills and competencies in French, and introduce them to the cultural contexts of French-speaking countries. The minor is also aimed at developing students’ appreciation of other cultures and languages in order to prepare them to live and work in a globalized and interconnected world.

Declaring the minor:
Applicants for the minor in French must satisfy QU requirements for declaring a minor. In addition, applicants must complete a French competency exam (placement test) to be administered by the Department of English Literature and Linguistics. Admission into the Spanish minor program of study is competitive and will be based on a recommendation by the relevant committee at the program and/or college level.

Minor in Spanish
The Minor in Spanish aims to build and expand students’ skills and competencies in Spanish, and introduce them to the cultural contexts of Spanish-speaking countries. The minor is also aimed at developing students’ appreciation of other cultures and languages in order to prepare them to live and work in a globalized and interconnected world.

Declaring the minor:
Applicants for the minor in Spanish must satisfy QU requirements for declaring a minor. In addition, applicants must complete a Spanish competency exam (placement test) to be administered by the Department of English Literature and Linguistics. Admission into the Spanish minor program of study is competitive and will be based on a recommendation by the relevant committee at the program and/or college level.

Minor in French (24 CH)
Students seeking a minor in French 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:
- FREN 100 Basic French
- FREN 110 Intermediate French I
- FREN 111 Intermediate French II
- FREN 200 Language, Culture, and Society
- FREN 210 French for Oral Communication I

Minor Electives (9 CH)
Students must complete a minimum of 9 credit hours in Minor electives courses:
- FREN 211 French for Oral Communication II
- FREN 221 French composition I
- FREN 222 French composition II
- FREN 310 French Phonetics
- FREN 311 Introduction to French Literature
- FREN 321 Business French

MINOR IN SPANISH
The Minor in Spanish aims to build and expand students’ skills and competencies in Spanish, and introduce them to the Spanish culture. The minor is also aimed at developing students’ appreciation of other cultures and languages in order to prepare them to live and work in a globalized and interconnected world.

Declaring the minor:
Applicants for the minor in Spanish must satisfy QU requirements for declaring a minor. In addition, applicants must complete a Spanish competency exam (placement test) to be administered by the Department of English Literature and Linguistics. Admission into the Spanish minor program of study is competitive and will be based on a recommendation by the relevant committee at the program and/or college level.

Minor in Spanish (24 CH)
Students seeking a minor in Spanish 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:
- SPAN 100 Basic Spanish
- SPAN 110 Intermediate Spanish I
- SPAN 111 Intermediate Spanish II
- SPAN 200 Language, Culture, and Society
- SPAN 210 Spanish for Oral Communication I

Minor Electives (9 CH)
Students must complete a minimum of 9 credit hours in Minor electives courses:
- SPAN 211 Spanish for Oral Communication II
- SPAN 221 Spanish composition I
- SPAN 222 Spanish composition II
- SPAN 310 Spanish Phonetics
- SPAN 311 Introduction to Spanish Literature
- SPAN 321 Business Spanish

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
Email: humanities.office@qu.edu.qa
Website: http://www.qu.edu.qa/artssciences/humanities/history/index.php

Head
Mohammed Khalifa Al-Kuwari

Faculty
Professors:
Saff Shaheen Al-Murahi , Ibrahim Muhammed Shahdad, Abdullah Al Abbousi , Alaa Al-Muhtadi, Maher Al Bani, Yousif Al Bani, Vassen, Mohamed Mahmoud, Noora Al-Kuwari, Yosif Al-Abdalla, Nedham Al-Shafei

Associate Professors:
abd Alahmen Abud Alhak , Abd Alqader Al-Qahtani, Hosam Abdulmouso, Sherine Elmenshawy, Nasser Abdul Rahim Kalkhor, Amr Almounir, Mohammedrn Al Moula, Alaa Abu-Munshar, Abdul Manal, Nasser Soliman, , 9403-4700

Assistant Professors:
Khalid Hamad AlJabr, Farid Al-Salim, Mariam AlMulla, Muhammed Khalifa Al-Kuwari, , Peter Polak-Springer, , Ahmed Galal Bassouny , Yahya Mohammed Galal, Said Al-Abdullatif, Mohammed AlDaa, Ayman Alabdulla, Nader Al-Abdulla, Mohamed Beni Salama, Raed Alhagha

Lecturers:
Ghami Al Humadi, Mohamed Al Zanier, Sahar Al-Gaboury

Teaching Assistant:
Abdulrazzaq Al-Mannai, Hamad Al Ghaded
Abdulah Haidar, Mazna Al-Merri, Alla AlBuRaghi, Abeer AlMaghraby

ABOUT THE DEPARTMENT
The Department of Humanities is one of the leading in the region and is committed to achieving academic excellence in teaching and scholarly endeavors, as well as serving the academic community and the public in general. The Department currently offers a major in History, as well as a minor in philosophy and history. In addition, the Department offers many elective courses in History, Geography and Philosophy. Our bachelor’s degrees are well-established and comparable to similar programs offered by regional universities. The primary educational objective of the Department is to provide high-quality undergraduate education to QU students. Our students will be equipped with valuable knowledge, as well as with technical, critical-thinking, problem-solving, communication, and teamwork skills. This empowers our students for their future careers in educational and professional sectors.

The faculty members of the department are highly qualified with international academic expertise, and are committed to advance the teaching of History, Geography and Urban Planning, and Philosophy, through instruction and research. The members of the Department are also involved in scholarly endeavors, with the aim of emerging as a provider of high-quality research in human and scientific knowledge that will benefit the State of Qatar and humanity in general. Their research results have been disseminated internationally through publication, as well as through international and regional conferences. Moreover, some of their research projects have been supported by national and institutional grants. The Department of Humanities continues to serve the Qatar society in various capacities, including community outreach programs, 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 space in 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.

**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 global societies and cultures across different periods in history.
- Examine interactions among major civilizations and their effects with special emphasis on Islamic History.
- Analyze patterns of continuity and change in historical events across time periods.
- Compare similarities and differences in historical phe nomena.
- Interpret historical facts to draw conclusions.
- Develop information gathering, reasoning and synthesiz ing abilities through the examination of primary sources.

**Opportunities**

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

**Admissions Requirements**

Applicants must satisfy QU defined College and Program requirements including the minimum high school percent age requirement. Detailed Undergraduate admission requirements are avail able at the following link:
http://www.cu.edu.qa/sites/en_US/students/admission/undergraduate

**Declaring the major**

Students must satisfy QU requirements for declaring a major including the need to declare the major before com pleting 36 UG credit hours. In addition, students declaring a major in History must have completed a minimum of 9 CH in the core curriculum program requirements with a minimum cumulative GPA of 2.00.

**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 4 credit hours in Major Electives.
- A minimum of 15 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 the CCP defined Social/Behavioral Sciences package

Humanities /Fine Arts package (3CH)

Students must complete 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 (3CH)

Courses in the CCP defined Natural Science/Mathematics package

Supplemental College / Program core requirements package (9 CH)

- ENGL 250 English for Communication I
- ENGL 251 English for Communication II
- UNIV 100 First Year Seminar

**Major Requirements (27 CH)**

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

- HIST 103 Introduction to History
- HIST 111 The History of the Russian World I (600 –1187)
- HIST 121 History of Qatar
- HIST 131 The World History Since 1300
- HIST 204 Historiography
- HIST 212 The History of the Muslim World II (1187 – 1516)
- HIST 213 The Modern Arab History (1516-1919)
- HIST 370 The 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 203 Epidemic Diseases in World History
- 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
- HIST 427 Muslim Minorities in the World
- HIST 436 Intellectual History of Europe in the 20th Century
- HIST 470 Modern Latin American History
- INTA 302 Politics of Oil
- 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 Packages (6 CH)

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

- HIST 314 Economic & Social History of the Islamic 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 Requirements or Electives Packages.

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

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

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

Students must complete a minimum of 3 credit hours taken from the Historical Gulf 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 6 CH in The European History Focus Area Electives Package, a minimum of 3 CH from 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 Packages (6 CH)

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

- HIST 322 Iran and its Neighbors
- HIST 323 Gulf-South Asian Relations in the Modern and Contemporary Periods
- HIST 324 Economic History of the Gulf
- HIST 421 The Gulf and the Arab World
- HIST 425 Topics in Gulf History
- SOCI 462 Change in Contemporary Arab Society

The Modern 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 Requirements or Electives Packages.

The Modern 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.
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
- HIST 434 Topics in European History
- INTA 433 Europe, the Cold War and the World since 1945

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 Persian 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 Spanish Language Package.

The Persian Language package (6 CH)
- ARAB 271 Persian Language 1
- ARAB 372 Persian Language 2

The Turkish Language package (6 CH)
- TURK 101 Turkish 1
- TURK 201 Turkish 2

The French Language package (6 CH)
- FREN 101 French Language 1
- FREN 201 French Language 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.

Study Plan for History Bachelor of Arts in History

FIRST YEAR (30 credit hours)

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SECOND YEAR (30 credit hours)

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<td>HIST111</td>
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FOURTH YEAR (30 credit hours)

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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.

Declaring the minor: Applicants for the minor in History must satisfy QU requirements for declaring a minor.

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

Students enrolled in the History program may take any of the Minor-required courses.
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

• HIST 213 Modern Arab History (1516 -1919)

Minor Electives (12 CH)
Students must complete a minimum of 12 credit hours in Minor elective courses. 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 217 Islamic Civilization
- HIST 222 The Gulf in Modern Period
- HIST 231 Europe and the World since 1500 CE
- 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 322 Iran and its Neighbors
- HIST 323 Gulf-South Asian Relations in Modern and Contemporary History
- HIST 324 Economic History of the Gulf
- 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 334 Arabian Gulf in Antiquity
- HIST 336 Women and Gender in the Ancient Near East
- HIST 337 The Age of Absolutism and Revolution, 1648 to 1815
- HIST 380 The Making of Modern America
- HIST 390 The History of Modern China and Japan
- HIST 415 History of Science in Islam
- HIST 416 Islamic Arts and Architecture
- HIST 417 Topics in Islamic History
- HIST 421 The Gulf and the Arab World
- HIST 425 Topics in Gulf History
- HIST 427 Muslim Minorities in the World
- HIST 431 Nationalism and its Consequences, 1815 to 1914
- HIST 432 Europe Between the Two World Wars, 1914-1945
- HIST 434 Topics in European History
- HIST 436 Intellectual History of Europe in the 20th Century
- HIST 470 Modern Latin American History
- INTA 302 Politics of Oil
- INTA 345 The Arab Israeli Conflict
- INTA 433 Europe, the Cold War and the World since 1945
- SOCI 462 Change in Contemporary Arab Society

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.

Declaring the minor:
Applicants for the minor in Philosophy must satisfy QU requirements for declaring a minor.

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 6 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

DEPARTMENT OF INTERNATIONAL AFFAIRS
College of Arts and Sciences
Main’s Building, BCR B-121-122
Phone: (974) 4403-4930
Email: iap@qu.edu.qa
Website: http://www.qu.edu.qa/arts/sciences/interna
tional_affairs

Acting Head
Ahmed H. Ibrahim

Faculty

Professors:
Ahmed H. Ibrahim, Lari Basuki, Adrian Mohammad Haya
jneh, Youssef Bouanadel

Associate Professors:
Farhan Chak, Abdullah Soufi

Assistant Professors:

Lecturers:
Thayiba Ibrahim; Tamadher Al Malik

Teaching Assistants:

ABOUT THE DEPARTMENT
The Department of International Affairs offers an interdisciplinary 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 interde
dependent global community by grounding them in indepen
dent 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.
• Foster an understanding of the dynamics of globalization and its impact on global societies.
• Provide Qatar with highly competent graduates who understand the contemporary national, regional and global challenges facing society today.

Learning Outcomes
• Analyze global issues, systems and trends from a variety of disciplinary perspectives (political, cultural, economic, geographic, and diplomatic).
• Effectively and efficiently 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 impact of political, social, cultural and eco
cnomics systems on Gulf societies and politics.
• Evaluate the political and economic impact of energy and natural resources on modern societies and international affairs.
• Effectively apply appropriate research methods skills to skills to international affairs related issues.
• Communicate findings clearly, analytically and persua
dively in both oral and written formats.

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

Admissions Requirements
Applicants must satisfy QU defined College and Program requirements including the minimum high school percent
age requirement.
Detailed Undergraduate admission requirements are avail
able at the following link:

Declaring the major
Students must satisfy QU requirements for declaring a
Major Core Requirements (39 CH)

Students must complete a minimum of 39 credit hours in Major Core Requirements:
- EDUC 201 Research Methodology
- INTA 100 First Year Seminar
- INTA 101 Political and Social Thought
- INTA 102 Introduction to Political Science
- INTA 103 Introduction to International Relations
- INTA 296 International Organizations
- INTA 302 Politics of Oil
- INTA 306 Gulf studies
- INTA 308 International Political Economy
- INTA 313 Culture and Politics
- INTA 411 Capstone
- INTA 415 History of the Middle East in the 20th Century
- LAWC 339 Public International Law

Major Electives (18 CH)

Students must complete a minimum of 18 credit hours (CH) from the Major Elective package by completing a minimum of 12 CH from the Electives I sub-package and a maximum of 6 CH from one of the Language Sub-Packages. Students may satisfy the Major Elective package requirements by either completing all 18 CH from the Electives I sub-package, or 15 CH from the Electives I sub-package and one course from one of the language Sub-packages, or 12 CH from the Electives I sub-package and two courses from the same language Sub-package.

Electives I sub-package (12 – 18 CH)

Students must complete a minimum of 12 credit hours taken from the following 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 305 Internship
- INTA 315 Dialogue Across Societies and Civilizations
- INTA 345 The Israeli-Conflict
- INTA 350 Foreign Policy of the United States
- INTA 401 International Relations Theory
- INTA 403 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 461 Special Topics
- INTA 465 Leadership and Civic Responsibility
- INTA 470 Area Studies
- SOCI 361 Human Rights

French Language Sub-Package
Students must complete a maximum of 6 credit hours from courses listed in the French Language Sub-Package.
- FREN 101 French 1
- FREN 201 French 2

Japanese Language Sub-Package
Students must complete a maximum of 6 credit hours from courses listed in the Japanese Language Sub-Package.
- JAPN 101 Japanese I
- JAPN 102 Japanese II

Korean Language Sub-Package
Students must complete a maximum of 6 credit hours from courses listed in the Korean Language Sub-Package.
- KORN 101 Korean I
- KORN 102 Korean II

Concentrations in International Security and Diplomacy

Concentration in International Security and Diplomacy (24 CH)

Students must complete a minimum of 12 CH in concentration core requirements and a minimum of 12 CH in concentration electives.
- INTA 200 Study and Practice of Diplomacy
- INTA 350 Foreign Policy of the United States
- INTA 400 Security Studies
- INTA 420 Conflict Resolution and Human Rights

International Security and Diplomacy Concentration Core Requirements (12 CH)

- INTA 200 Study and Practice of Diplomacy
- INTA 350 Foreign Policy of the United States
- INTA 420 Conflict Resolution and Human Rights

International Security and Diplomacy Concentration Electives (12 CH)

A minimum of 12 credit hours in Concentration Elective courses:
- FREN 301 French Language 3
- HIST 322 Iran and its Neighbors
- HIST 323 Gulf-South Asian Relations in the modern and contemporary history
- INTA 345 The Arab-Israeli Conflict
- INTA 404 Gender and Law
- INTA 433 Europe, the Cold War and the World since 1945
- INTA 450 Ethics of International Relations
- INTA 470 Area Studies
- LAWC 102 Human Rights and International Humanitarian Law
- SOCI 368 Law and Society
- SOCI 361 Human Rights
- SOCI 368 Language, Communication and Society

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 Political Economy Concentration Core Requirements (12 CH)

- ECON 111 Principles of Microeconomics
- ECON 112 Principles of Macroeconomics
- INTA 440 Politics of Development
- MATH 119 Business Mathematics I

International Political Economy Concentration Electives (12 CH)

A minimum of 12 credit hours in Concentration Elective courses:
- ECON 451 Economic Development
- ECON 453 International Economics
- ECON 454 Economics of Energy
- FINA 201 Principles of Finance
- HIST 344 Economic History of the Gulf
- INTA 201 Comparative Political Systems
- INTA 206 Globalization
- INTA 405 Gender in International Perspective
- INTA 470 Area Studies
- SOCI 200 Sustainable Development
- SOCI 463 Labor and Class in Petroleum Society

Concentration in Culture, Society and Heritage (24 CH)

Students must complete a minimum of 12 CH in concentration core requirements and a minimum of 12 CH in concentration electives.

Culture, Society and Heritage Concentration Core Requirements (12 CH)

- HIST 131 World History
- INTA 203 Women in Islam
- SOCI 121 Introduction to Anthropology
- SOCI 462 Change in Contemporary Arab Society

Culture, Society and Heritage Concentration Electives (12 CH)

A minimum of 12 credit hours in Concentration Elective courses:
- ARAB 481 Modern Literary Criticism
- ARAB 482 Contemporary Gulf Literature
- ARAB 483 Comparative Literature
- ENGL 209 Language and Society
- ENGL 213 Language and Culture
- HIST 231 Europe and the World since 1500 CE
- INTA 334 Arabic Gulf Antiquity
- HIST 416 History of Islamic Arts and Architecture
- HIST 425 Topics in Gulf History
### Study Plan for International Affairs

**Bachelor of Arts in International Affairs**

#### FIRST YEAR (30 credit hours)

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#### THIRD YEAR (30 credit hours)

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### Minor in International Affairs

The minor in International Affairs aims to equip students with interdisciplinary knowledge in the field of International Affairs, and to also prepare them for living and working within an increasingly global community.

#### Declaring the Minor

Applicants for the minor in International Affairs must satisfy OU requirements for declaring a minor.

#### Minor in International Affairs (24 CH)

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

- A minimum of 18 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:

- INTA 101 Political and Social Thought
- INTA 102 Introduction to Political Science
- INTA 103 Introduction to International Relations
- INTA 308 International Political Economy
- INTA 415 History of the Middle East in the 20th Century
- LAWC 339 Public International Law

#### 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 209 Islam and the West
- INTA 300 Chinese Society and Politics in the 21st Century
- INTA 306 Gulf studies
- INTA 401 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
The newly proposed program will have to diversify their supervision of an assigned advisor, students under their care to thrive in an increasingly interdependent global community by grounding them in independent critical thinking, professional 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 citizenry.

**Additional Requirements**

To receive a BA in Policy, Planning and Development, students must complete the following:

- **Declaring the major**
  - Students must complete 36 UG credit hours. In addition, students must complete a minimum of 9 credit hours in courses selected from the CCP and the Humanities/Fine Arts package.

- **Course package** (15 CH)
  - ARAB 100 Arabic Language I
  - ARAB 200 Arabic Language II
  - ENGL 111 English I
  - ENGL 112 English II
  - DAWA 111 Islamic Culture

- **Core Curriculum Program (33 CH)**
  - A minimum of 33 credit hours in Core Curriculum Requirements.

- **Major Requirements (48 CH)**
  - 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)**
  - Any Course in the CCP defined Social/Behavioral Sciences 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 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 (9 CH)**
  - ENGL 230 English for Communication I
  - ENGL 251 English for Communication II
  - UNIV 100 First Year Seminar

- **Major Requirements (48 CH)**
  - Students must complete the following courses:
    - ECON 112 Macroeconomics
    - EDUC 201 Research Methodology
    - INTA 102 Introduction to Political Science
    - INTA 103 Introduction to International Relations
    - INTA 440 Politics of Development
    - INTA 445 Leadership and Civic Responsibility

- **Cumulative GPA of 2.00.**

**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)**

- [Core Course List](http://www.qu.edu.qa/artssciences/international_affairs/policypd/index.php)
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:
- ECON 214 Monetary Policy
- POPL 241 Community-Based Policy Development and Analysis
- POPL 345 Science, Technology and Policy
- POPL 392 Post-Disaster Recovery and Planning
- POPL 486 Public Policy and Knowledge Based Economy
- SOCI 368 Law and Society

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.

Environment and Sustainability Concentration Core Requirements package (15 CH)
Students must complete the following courses:
- GEOG 442 Environment and Pollution
- POPL 431 Economic Policy Approaches to Sustainability
- POPL 432 Sustainability Planning and Protection of Cultural Resources
- POPL 439 Environmental Impact Assessment
- SOCI 206 Sustainable Development

Environment and Sustainability Concentration Electives package (9 CH)
Students must complete 9 credit hours from the following courses:
- BIOL 345 Health Safety and Environment
- GEOG 411 Geology of Qatar and Arabian Peninsula
- LAWC 449 Environmental Law and Regulations
- POPL 230 Climate Change Policy Analysis
- POPL 232 Energy and Environmental Economics

Concentration in Environmental and Sustainability (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:
- INTA 403 Security Studies
- POPL 221 International Energy Issues
- POPL 228 Introduction to Energy Law and Policy
- POPL 220 Energy Risk Management
- POPL 100 Introduction to Political Science

Energy and Security Concentration Electives package (9 CH)
Students must complete 9 credit hours from the following courses:
- INTA 302 Politics of Oil
- POPL 321 Energy: Science, Technology, and Human Usage
- POPL 325 International Law and Security
- POPL 230 Energy and Global Security

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:
- GEOG 446 Introduction to GIS
- POPL 245 Introduction to the Theory and Practice of Urban Planning
- POPL 253 Transportation and Transit-Oriented Development
- POPL 450 Urban and Regional Economics
- POPL 452 Urban Planning and Development

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 350 Housing and Community Development
- POPL 375 Urban Sustainability
- SOCI 266 Population and Migration
- SOCI 267 Urban Studies

Capstone and Internship Requirements (6 CH)
Students must complete the following courses:
- POPL 480 Internship
- POPL 489 Capstone
Students must complete a minimum of 9 credit hours in courses selected from the following:
- POPL 221 International Energy Issues
- POPL 230 Climate Change Policy Analysis
- 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 340 Organizational Behavior and Management in Public Service Agencies
- POPL 450 Urban and Regional Economics

**Minor Electives (9 CH)** Students must complete a minimum of 9 credit hours in courses selected from the following:
- POPL 450 Urban and Regional Economics
- POPL 451 Introduction to Policy Analysis
- POPL 452 Energy and the Environment
- POPL 453 Energy and Policy Makers
- POPL 460 Public Leadership and Policy Development
- SOCI 120 Introduction to Sociology

**DEPARTMENT OF MASS COMMUNICATION**

Women's Main Building, CO4- Room 255 (Women's Section)
- Men's Main Building, BO5 Room 233 (Men's Section)
- Phone: (974) 4403-4860/4866
- Email: headdepmasscommunication@qu.edu.qa
- Website: http://www.qu.edu.qa/artsscience/macom/

**Acting Head**
Nourredine Mladi
**Faculty**

- **Professor:** Mahmoud Kirat
- **Basoyon Hamada**

- **Associate Professors:**
  - Mahmoud Galander
  - Nishan Rafi
  - Noureddine Mladi
  - Haydar Badawi Sadig
  - Abdullah Rahman Al-Shami
  - Leon Barkho

**Assistant Professors:**
- Jamil Al-Khouli
- Guta Saadia Malik
- Kamal Hamidou
- Abdullah Zain Hidri
- Hala Guta

**Lecturers:**
- El-Sayed El-Aikani
- Mohamed El Kafrawy
- Mohamed Hassan
- Eman Eissa
- Chaker Ayadi
- Rana Hassan
- Hind Al-Ibrahim
- Nejede Al-Ibrahim
- Faed
- Majdi Al-Khouli
- Aqsa Hussain
- Fatma Al-Doh
- AlSanah Al-Shibani

**Teaching Assistants**
- Dala Al Dosari
- Sara Al Derham
- Nourhan El Abbassy
- Ismail Ahmed
- Hamda Al-Mohannadi
- Ibrahim Al Hashmi
- Mohamed Buhmeed
- Bothaina Al-Dosari

**ABOUD 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 ACEJMC accreditation which makes it the first department in the Middle East to have the ACEJMC accreditation.

**BACHELOR OF ARTS IN MASS COMMUNICATION**

**Objectives**
- Provide students with strong theoretical and conceptual understanding in Mass Communication fields.
- Enable students to conduct research related to communication and mass media, including collecting, analyzing, and reporting data.
- Prepare students for careers in Strategic Communication (public relations/ advertising), Broadcast/Online Journalism, and Print/Online Journalism.
- Create an intellectual climate for students to think critically, creatively and independently on issues related to mass communication at the national, regional, and global levels.
- Promote professional and ethical values related to mass communication fields.
- Respect cultural diversity.

**Additional Requirements**
Students in the program must prepare a capstone graduation project in the area of their specialization. The project must fulfill the requirements of the application of the theories and practices learned in the respective concentrations, and must demonstrate an application of major competencies and values of the ACEJMC, which are also the Mass Communication program learning outcomes. The capstone graduation project is to be evaluated by a panel of academics and professionals from media institutions. The panel evaluates the project and convenes a thirty-minute round of discussion with the student to evaluate his/her competency in the area of concentration.

**Learning Outcomes**
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
Students must complete a minimum of 6 credit hours of major supporting core requirements including:

• STAT 101 Introduction to 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:
• GEOG 344 Political Geography
• INTA 205 Middle East History II
• PSYC 300 Psychology of Personality
• SOCI 368 Law & Society
• SOCI 465 Industrial Organization and Work

Major Core Requirements (15 CH)
Students must complete a minimum of 15 credit hours in Major Core 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.
• 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 the CCP defined Social/Behavioral Sciences package.

Humanities /Fine Arts package (3 CH)
Students must complete a minimum of 3 Credit Hours from courses listed in the following sub-package part of the Humanities/Fine Arts package.

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

Supplemental College / Program core requirements package (9 CH)
• ENGL 250 English for Communication I
• ENGL 251 English for Communication II
• UNIV 100 First Year Seminar

Major Supporting Core Requirements (6 CH)

• MCOM 490 Strategic Communication “Capstone”
• MCOM 487 PR/AD Internship
• MCOM 388 Public Relations Writing and Presentations
• MCOM 384 Advertising Copy Writing and Design
• MCOM 383 Principles of Advertising

Concentration in Print/Online Journalism (24 CH)
Students must complete a minimum of 18 CH in concentration 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)

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

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 Copy Writing and Design
• MCOM 388 Public Relations Writing and Presentations
• MCOM 487 PRAA Internship
• MCOM 490 Strategic Communication “Capstone”

• 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

A minimum of 6 credit hours in Concentration Elective courses:
• MCOM 345 Newspaper Design and Production
• MCOM 346 Internet-Assisted Reporting
• MCOM 348 Investigative Journalism
• MCOM 364 Broadcast Production
• MCOM 452 Magazine Writing

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 364 Broadcast Production
• MCOM 452 Magazine Writing
### Bachelor of Arts in Mass Communication

#### Concentration Supporting Requirements

- **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 a student enrolled in is less than 24 CH, the student must take additional courses as free electives to complete the 24 CH requirements. If students choose to complete concentration supporting requirements, the concentration supporting requirements that the students must complete depends on the concentration they have selected.

#### Concentration Supporting Requirements for the Broadcast/Online Journalism and the Print/Online Journalism Concentrations:

- **HIST 445 Modern and Contemporary History of Arabian Gulf**
- **INTA 103 Introduction to International Relations**
- **INTA 201 Comparative Political Systems**
- **INTA 306 Gulf Studies**
- **INTA 440 Politics of Development**
- **SOCI 263 Badawi Society**
- **SOCI 267 Urban Studies**
- **SOCI 363 Ethnicity**
- **SOWO 361 Society and Human Rights**

#### Strategic Communication Concentration Electives (6 CH)

- **MCOM 364 Broadcast Production**
- **MCOM 382 Organizational Communication**
- **MCOM 386 Public Relations and New Media**
- **MCOM 491 Strategic Communication**
- **MCOM 492 Social Marketing**
- **MCOM 493 Public Opinion Research**

#### Free Electives (12 CH)

- Students must complete a minimum of 12 Credit Hours in free electives from courses outside the Mass Communication major.

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### Study Plan for Broadcast/Online Journalism

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#### FOURTH YEAR (36 credit hours)

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### Study Plan for Print/Online Journalism

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#### THIRD YEAR (36 credit hours)

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<td>MCOM 367</td>
<td>Broadcast News Reporting and writing</td>
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## Study Plan for Strategic Communication

**Bachelor of Arts in Mass Communication**

### FIRST YEAR (30 credit hours)

<table>
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### SECOND YEAR (30 credit hours)

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<td>MCOM 450</td>
<td>Multimedia Journalism (Capstone)</td>
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<td>MCOM 447</td>
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<td>MCOM 381</td>
<td>Principles of Public Relations</td>
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<td>MCOM 383</td>
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<td>MCOM 384</td>
<td>Advertising Copy Writing and Design</td>
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<td>MCOM 388</td>
<td>Public Relations Writing and Presentations</td>
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<td>Fall</td>
<td>MCOM 341</td>
<td>News Reporting, Writing and Editing Arabic (A)</td>
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### MINOR IN MASS COMMUNICATION

The minor in Mass Communication is designed to provide students a wide spectrum of knowledge in the field of Mass Communication through courses that cover the major areas of print and online journalism, broadcast journalism and strategic communication.

#### Declaring the minor

Applicants for the minor in Mass Communication must satisfy QU requirements for declaring a minor.

#### Minor in Mass Communication (24 CH)

Students seeking a minor in Mass Communication must complete a minimum of 24 credit hours, including the following:
- A minimum of 9 credit hours in Minor requirements
- A minimum of 15 credit hours in Minor electives

#### Minor Requirements (9 CH)

Students must complete a minimum of 9 credit hours in Minor required courses:
- MCOM 103 Media and Society
- MCOM 222 Communication Theories
- MCOM 223 Media Writing

#### Minor Electives (15 CH)

Students must complete a minimum of 15 credit hours in Minor electives courses:
- MCOM 303 Women and Media
- MCOM 315 Communication Research Methods
- MCOM 318 Global Communication
- MCOM 341 News Reporting, Writing and Editing Arabic
- MCOM 342 News Reporting, Writing and Editing English
- MCOM 343 Online Journalism
- MCOM 345 Newspaper Design and Production
- MCOM 363 Announcing
- MCOM 364 Broadcast Production
- MCOM 381 Principles of Public Relations
- MCOM 382 Organizational Communication
- MCOM 452 Magazine Writing

**Minor Requirements (9 CH)**

- A minimum of 9 credit hours in Minor required courses:
  - MCOM 103 Media and Society
  - MCOM 222 Communication Theories
  - MCOM 223 Media Writing

**Minor Electives (15 CH)**

- A minimum of 15 credit hours in Minor electives courses:
  - MCOM 303 Women and Media
  - MCOM 315 Communication Research Methods
  - MCOM 318 Global Communication
  - MCOM 341 News Reporting, Writing and Editing Arabic
  - MCOM 342 News Reporting, Writing and Editing English
  - MCOM 343 Online Journalism
  - MCOM 345 Newspaper Design and Production
  - MCOM 363 Announcing
  - MCOM 364 Broadcast Production
  - MCOM 381 Principles of Public Relations
  - MCOM 382 Organizational Communication
  - MCOM 452 Magazine Writing
DEPARTMENT OF SOCIAL SCIENCES
Main Women's Building, Room 231m, (Women's Section)
Phone: (974) 4403-4750
Fax: (974)4403-4751
Email: sosciences@qu.edu.qa
Website: http://www.qu.edu.qa/arts-sciences/sosciences
Head
Abdulnasser Saleh Mohamed Alyafei
Faculty
Professors
AbdelSamad Mohamed Ali Mohamed, Fuad Al Salahi, Himmour Olum (Degty Asaf (Coordinator of the Social Work Program), Abdabo Soliman (Coordinator of the Psychology Program), Kalhann Al Ghanim, Ibrahim Alkaabi
Associate Professors:
Mohien Bouzidi, El Rayah A. Osman (Coordinator of the Sociology Program), Abdulnasser Alyafei, Abdulnasser Alyafei, Abdabo Soliman (Coordinator of the Psychology Program), Nada ElTaiba
Assistant Professors:
Ali Al Shawi, Fatima Alkaabi (Coordinator of the Sociology Program), Munira Al Rumaihi, Kaltam Alkuwari, Ali Al Shawi, Fatima Al Kubaisi (Coordinator of the Sociology Program), Abdulnasser Alyafei, Abdulnasser Alyafei, Abdabo Soliman (Coordinator of the Psychology Program), Nada ElTaiba
Assistant Professors:
Ali Al Shawi, Fatima Alkaabi (Coordinator of the Sociology Program), Munira Al Rumaihi, Kaltam Alkuwari, Eid Aba Hamza
Lecturer:
Asma Malkawi, Cheddi Chettt, Moustafa A. Elizab, Magda Fareed, Mahmoud Radwan, Amal El Gamal, Thab Hamid, Salea Aly, Talal Salah Al Ghad, Yousif Mahdi, Mohammed Khalat, Hajar Nassar
Teaching Assistants:
Afrar Al Debi, Shakha Al Kuwari, Abier Abdelsamad, Maryam Aboolshah, Shakhla Alhaqi, Sara Alansari
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 gain the social and cultural aspects of our collective existence. This mission is shared by the Department’s 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 that 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 global citizens with an awareness and respect for cultural diversity and other ways of living.

Objectives
The major in Sociology strives to:
• Have a critical understanding of basic social science concepts.
• Acquire methods of gathering and analyzing systematically derived field-based data.
• Ethically conduct research on social and cultural issues to explain societal patterns or problems.
• Understand uniformity and diversity among socio-cultural orders.

Learning Outcomes
Upon completion of the major, students will be able to:
• Explain Social and Cultural Concepts in real settings.
• Explain and give example of social and cultural issues.
• Analyze 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 allow graduates to be employed by marketing, research and consulting agencies.

Admissions Requirements
Applicants must satisfy QU defined College and Program requirements including the minimum high school percentage requirement. Detailed Undergraduate admission requirements are available at the following link:


Declaring the major
Students must satisfy QU requirements for declaring a major including the need to declare the major before completing 36 UG credit hours. In addition, students declaring a major in Sociology must have completed a minimum of 9 CH in the core curriculum program requirements with a minimum cumulative GPA of 2.00.

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 27 credit hours in Electives
• 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 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 the CCP defined Social/Behavioral sciences 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 part of the Humanities/Fine Arts package.

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

Supplemental College / Program core requirements package (6 CH)
• ENGL 250 English Language I
• ENGL 251 English Language II
• UNIV 100 First Year Seminar

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 364 Human Rights
• SOCI 460 Statistics in the Social Sciences
• SOCI 462 Change in Contemporary Arab Society

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 packages and a minimum of 21 credit hours and maximum of 24 credit hours in Topical Electives package.

Regional Electives package (3 - 6 CH)
Students must complete between 3 to 6 credit hours in Regional electives packages courses:
• SOCI 263 Badawi Society
• SOCI 362 Comparative Ethnography
• SOCI 363 Ethnograpy
• 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 360 Population
• 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.

Study Plan for Sociology
Bachelor of Arts in Sociology

<table>
<thead>
<tr>
<th>FIRST YEAR (30 credit hours)</th>
<th>Term</th>
<th>Course #</th>
<th>Course Title</th>
<th>Credit Hours</th>
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<td>SOCI 262</td>
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<td>SOCI 462</td>
<td>Change in Arab Society</td>
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MINOR IN SOCIOLOGY
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.

Declare the minor
Applicants for the minor in Sociology must satisfy QU requirements for declaring a minor.

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 121 Introduction to Sociology
- SOCI 261 Quantitative Methods
- SOCI 262 Qualitative Methods
- SOCI 360 Sociological Theory
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 Qatar 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 on core values, social justice and ethics
• Develop a perspective on basic professional skills in social work

Learning Outcomes
Upon completion of the major, students will be able to:

• Analyze the role of culture in the context of social work.
• Apply the roles of Ethics in social work practice.
• Utilize social work knowledge, skills and methods in social work practice.
• Evaluate strategies to respond to local and global community socio-economic challenges using appropriate theories in the field.
• Employ effective research skills to social work issues.
• Apply effective communication skills important for social work practices.

Opportunities
Job opportunities abound in Qatar for social work majors. Social Work graduates might work with children, families, adults, elders, couple, 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.

Admissions Requirements
Applicants must satisfy QU defined College and Program requirements including high school percentage requirement and pass a department-based interview and a written test. Detailed Undergraduate admission requirements are available at the following link:

Declaring the major
Students must satisfy QU requirements for declaring a major including the need to declare the major before completing 36 UG credit hours. In addition, students declaring a major in Social Work must have completed a minimum of 9 CH in the core curriculum program requirements with a minimum cumulative GPA of 2.30.

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 the CCP defined Social/Behavioral Sciences 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 part of the Humanities/Fine Arts package.

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

Supplemental College / Program core requirements package (9 CH)

• ENGL 250 English for Communication I
• ENGL 251 English for Communication II
• UNIV 110 First Year Seminar

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 420 Social Work Generalist Practice II
• SOWO 430 Social Work Generalist Practice III
• SOWO 442 Advanced Intervention Models
• SOWO 444 Field Practicum I
• SOWO 450 Graduation project

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 304 Social Work Program Evaluation
• SOWO 305 Social Protection
• SOWO 306 Social work in Disability and Rehabilitation
• SOWO 307 Social Work and the Environment
• SOWO 308 Crises and Disaster Management
• SOWO 309 Voluntary 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
• PSYC 201 Fundamentals of Psychology
• PSYC 206 Introduction to Social Psychology
• SOC 120 Introduction to Sociology
• SOCI 200 Sustainable Development
• STAT 101 Statistics I

Free Electives (6 CH)
Students must complete a minimum of 6 credit hours in University Free Electives from courses outside the Social Work major.

Study Plan for Social Work
Bachelor of Arts in 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>PSYC 206 Introduction to Social Psychology</td>
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<td>Spring</td>
<td>STAT 101 Intro to Statistics</td>
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<td>Spring</td>
<td>SOCI 200 Sustainable Development</td>
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THIRD YEAR (30 credit hours)

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<td>SOWO 320</td>
<td>Social Work &amp; the Law</td>
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<td>SOWO 330</td>
<td>Social Welfare Policy and Services I</td>
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<td>Social Work Generalist Practice I</td>
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<td>Social Work Generalist Practice II</td>
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<td>SOWO 370</td>
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<td>SOWO 403</td>
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Total Credit Hours in Semester 15

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<td>SOWO 410</td>
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<td>SOWO 441</td>
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Total Credit Hours in Semester 15

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

1. Students who complete the Psychology Program will:
   - Develop student fundamental knowledge and comprehension of the major concepts, theoretical perspectives, historical trends, and empirical findings in psychology and develop a working knowledge of psychology's content domains.
   - Develop and use scientific reasoning, creative thinking and problem-solving, including effective research methods.
   - Develop understanding of the major ethical issues associated with psychological research, professional behavior and practice.
   - Develop professional teamwork, competency in writing and in oral communication skills.
   - Promote application of psychological content and skills, reflective practice, teamwork, and career preparation.

Learning Outcomes

Upon completion of the major, students will be able to:
1. Explain the primary objectives of psychology and key characteristics of its major content domains.
2. Apply psychological concepts to explain behavior and mental processes.
3. Use effective research methodology to solve problems.
4. Develop working knowledge of psychological intervention methods and therapeutic techniques.
5. Apply professional ethical standards to evaluate psychological science and practice.
6. Write scientific arguments and present information orally using scientific and psychological concepts.

Opportunities

The psychology program prepares students for a wide range of careers as, family counselors, psychiatric technicians, psychological testing technicians and human service workers. Psychologists might provide psychological help for children, families, couples, and groups in different settings. Opportunities also exist for psychologists to work in non-profit organizations and in health establishments, including hospitals and mental health agencies.

Admissions Requirements

Applicants must satisfy QU defined College and Program requirement including the minimum high school percentage requirement and pass the program admission interview. Detailed Undergraduate admission requirements are available at the following link: http://www.qu.edu.qa/sites/en_US/students/admission/undergraduate

Declaring the major

Students must satisfy QU requirements for declaring a major including the need to declare the major before completing 36 UG credit hours. In addition, students declaring a major in Psychology must have completed a minimum of 9 CH in the core curriculum program requirements with a minimum cumulative GPA of 2.00.

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 Practicum.
- A minimum of 12 credit hours in Major Electives.
- A minimum of 24 credit hours in Minor Requirements.
- A minimum of 9 credit hours in Free Electives.

Core Curriculum Program (33 CH)

Common package (15 CH)
- ENGL 100 English I
- ENGL 110 English II
- DAWA 111 Islamic Culture

Social/Behavioral Sciences package (3 CH)
- PSYC 303 Abnormal Psychology
- PSYC 300 Psychology of Personality
- PSYC 301 Developmental Psychology
- PSYC 304 Cognitive Psychology
- PSYC 302 Psychological Testing and Assessment
- PSYC 303 Abnormal Psychology
- PSYC 400 Principles of Cognitive Behavioural Therapy
- PSYC 401 Psychological Helping Skills
- PSYC 402 Psychopathology
- PSYC 406 Capstone

Practicum (6 CH)

Students must complete the following Practicum course:
- PSYC 405 Practicum

Major Electives (12 CH)

Students must complete a minimum of 12 credit hours in courses selected from the following:
- PSYC 406 Emotion and Motivation
- PSYC 412 Counseling Over the Lifespan
- PSYC 434 Psychobiology of Aging
- PUBH 202 Health Behavior and Society
- SOCI 262 Qualitative Methods
- SOCI 354 Study of Gender
- SPSC 308 Sport Psychology

Minor Requirements (24 CH)

Students enrolled in the Psychology program may take any of the Minor courses offered in the Psychology program and enrol in any of the minors offered in the University. If the minor the students enrolled in is less than 24 credit hours, students must take additional courses as free electives to complete the 24 credit hours requirements.

Free Electives (9 CH)

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.

Supplemental College / Program Core Requirements package (8 CH)
- ENGL 250 English for Communication I
- ENGL 251 English for Communication II
- UNIV 110 First Year Seminar

Major Requirements (36 CH)

Students must complete the following courses:
- PSYC 201 Fundamentals of Psychology
- PSYC 203 Health Psychology
- PSYC 206 Introduction to Social Psychology
- PSYC 202 Research Design and Statistics
- PSYC 300 Psychology of Personality
- PSYC 302 Psychological Assessment
- PSYC 303 Abnormal Psychology
- PSYC 304 Cognitive Psychology
- PSYC 302 Psychological Assessment
- PSYC 304 Cognitive Psychology
- PSYC 306 Emotion and Motivation
- PSYC 412 Counseling Over the Lifespan
- PSYC 434 Psychobiology of Aging
- PUBH 202 Health Behavior and Society
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- ENGL 251 English for Communication II
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Students must complete the following courses:
- PSYC 201 Fundamentals of Psychology
- PSYC 203 Health Psychology
- PSYC 206 Introduction to Social Psychology
- PSYC 202 Research Design and Statistics
- PSYC 300 Psychology of Personality
- PSYC 302 Psychological Assessment
- PSYC 303 Abnormal Psychology
- PSYC 304 Cognitive Psychology
- PSYC 306 Emotion and Motivation
- PSYC 412 Counseling Over the Lifespan
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- ENGL 251 English for Communication II
- UNIV 110 First Year Seminar

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- PSYC 206 Introduction to Social Psychology
- PSYC 202 Research Design and Statistics
- PSYC 300 Psychology of Personality
- PSYC 302 Psychological Assessment
- PSYC 303 Abnormal Psychology
- PSYC 304 Cognitive Psychology
- PSYC 306 Emotion and Motivation
- PSYC 412 Counseling Over the Lifespan
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- PSYC 202 Research Design and Statistics
- PSYC 300 Psychology of Personality
- PSYC 302 Psychological Assessment
- PSYC 303 Abnormal Psychology
- PSYC 304 Cognitive Psychology
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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.
### Study Plan for Psychology

Bachelor of Arts in Psychology

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<td><strong>Term</strong></td>
<td><strong>Course #</strong></td>
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<tr>
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<td>PSYC 304 Cognitive Psychology</td>
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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 456 Capstone</td>
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<td>PSYC 306 Emotion and Motivation</td>
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<td>PSYC 403 Abnormal Psychology</td>
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### 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.

### Declare the minor

Applicants for the minor in Psychology must satisfy QU requirements for declaring a minor.

### Minor in Psychology

A minimum of 24 credit hours is required to complete the minor in Psychology, 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:

- PSYC 201 Fundamentals of Psychology
- PSYC 203 Health Psychology
- PSYC 206 Introduction to Social Psychology
- PSYC 301 Developmental Psychology
- PSYC 303 Abnormal Psychology
- PSYC 304 Cognitive Psychology

### Minor Electives (6 CH)

Students must complete a minimum of 6 credit hours in courses selected from the following:

- PSYC 300 Psychology of Personality
- PSYC 306 Emotion and Motivation
- PSYC 401 Psychological Helping Skills
- PSYC 404 Psychology of Family Relations

### 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 creativity. The M.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.

**Learning Outcomes**

Graduates of the Biological Sciences major will be able to:
- Define structure and function of organisms.
- Describe the interactions between organisms and their environment.
- Use instrumentation and proper techniques in biological sciences research correctly.
- Engage in critical thinking on problem solving activities on a biological topic.
- Demonstrate proficiency in written by giving concise, clear, and organized written communication about a biological concept.
- Demonstrate proficiency in oral communication by giving concise, clear, and organized oral presentations on a biological topics.

**Opportunities**

Graduates in Biological Sciences find employment in government agencies, non-governmental organizations, and in the private sector in clinical, chemical and research laboratories.

**Admissions Requirements**

Applicants must satisfy QU defined College and Program requirements including the minimum high school percentage requirement. Detailed Undergraduate admission requirements are available at the following link:

http://www.qj.edu.qa/sites/en_US/students/admission/undergraduate

Declaring the major

Students must satisfy QU requirements for declaring a major including the need to declare the major before completing 36 UG credit hours. In addition, students declaring a major in Biological Sciences must have completed the BIOL 101 course and a minimum of 9 CH in the core curriculum program requirements with a minimum cumulative GPA of 2.00.

**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**
- **A minimum of 24 credit hours in Major Electives**
- **A minimum of 18 credit hours in minor requirements**

Core Curriculum Program (33 CH)

- **Common package (15 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 the CCP defined Social/Behavioral Sciences package.
- **Natural Science/Mathematics package (3 CH)** Courses in the CCP defined Natural Science/Mathematics 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 part of the Humanities/Fine Arts package.

Supplemental College / Program Core Requirements Package (3 CH)

- **UNIV 100 First Year Seminar**
- **General Knowledge package (3 CH)**

Courses in the CCP defined General Knowledge package.

**General Skills package (3 CH)**

Courses in the 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**
- **BIOL 241 Microbiology**
- **BIOL 311 Molecular Biology**
- **BIOL 351 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:

- **CHEM 101 General Chemistry I**
- **CHEM 102 Organic Chemistry I**
- **CHEM 209 Fundamentals in Organic Chemistry**
- **CHEM 351 Basic Biochemistry**
- **CHEM 352 Experimental Biochemistry**
- **MATH 101 Calculus I**
- **PHYS 110 General Physics for Biology**
- **PHYS 111 Practical Physics for Biology**
- **STAT 151 Introduction to Applied Statistics**

**Major Electives (24 CH)**

Students must complete a minimum of 24 credit hours in Major elective courses:

- **BIOL 211 Cell Biology**
- **BIOL 212 Genetics**
- **BIOL 312 Histology**
- **BIOL 321 Principles of Environmental Biology**
- **BIOL 322 Desert Biology**
- **BIOL 344 General Parasitology**
- **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.

- **CHEM 101 General Chemistry I**
- **CHEM 102 Organic Chemistry I**
- **CHEM 209 Fundamentals in Organic Chemistry**
- **CHEM 351 Basic Biochemistry**
- **CHEM 352 Experimental Biochemistry**
- **STAT 151 Introduction to Applied Statistics**

**Study Plan for Biological Sciences**

Bachelor of Science in Biological Sciences

**FIRST YEAR (32 credit hours)**

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<th>Course Title</th>
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<td>ARAB 100</td>
<td>Arabic Language I</td>
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<td>ENGL 202</td>
<td>English Language I (Post Foundation)</td>
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<tr>
<td>Fall</td>
<td>DAWA 111</td>
<td>Islamic Culture</td>
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<td>Fall</td>
<td>BIOL 101</td>
<td>Biology I</td>
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<tr>
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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>ARAB 200</td>
<td>Arabic Language 2</td>
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<tr>
<td>Spring</td>
<td>ENGL 203</td>
<td>English Language 2 (Post Foundation)</td>
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<td>Biology II</td>
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<td>CHEM 102</td>
<td>Organic Chemistry II</td>
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<td>Spring</td>
<td>CHEM 104</td>
<td>Experimental General Chemistry I</td>
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<td>Spring</td>
<td>MATH 101</td>
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Total Credit Hours in Semester 16

**SECOND YEAR (32 credit hours)**

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<td>BIOL 221</td>
<td>Basic Ecology</td>
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<td>Fall</td>
<td>BIOL 241</td>
<td>Microbiology</td>
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<td>Fall</td>
<td>CHEM 209</td>
<td>Fundamentals in Organic Chemistry</td>
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<tr>
<td>Fall</td>
<td>PHYS 110</td>
<td>General Physics for Biology</td>
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<tr>
<td>Fall</td>
<td>BIOL</td>
<td>Major Elective</td>
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<td>Fall</td>
<td>PHYS 111</td>
<td>Practical Physics for Biology</td>
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Total Credit Hours in Semester 16

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<td>Basic Biochemistry</td>
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<td>Fall</td>
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Total Credit Hours in Semester 16

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<td>BIOL 221</td>
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Total Credit Hours in Semester 16

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Total Credit Hours in Semester 16
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**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.

Declare the minor

Applicants for the minor in Biological Sciences must satisfy QU requirements for declaring a minor.

**Minor in Biological Sciences (18 CH)**

Students seeking a minor in Biological Sciences must complete a minimum of 18 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 (12 CH)**

Students must complete a minimum of 12 credit hours in Minor required courses:

- BIOL 101 Biology I
- BIOL 211 Cell Biology
- BIOL 241 Microbiology
- BIOL 321 Principles of Environmental Biology
- BIOL 344 General Parastology
- BIOL 444 Immunology

**Minor Electives (6 CH)**

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

- BIOL 212 Genetics
- BIOL 311 Molecular Biology
- BIOL 411 Marine Biology
- BIOL 421 Biotechnology
- BIOL 444 Immunology

**BACHELOR OF SCIENCE IN ENVIRONMENTAL SCIENCE**

**Objectives**

The major in Environmental Science strives 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
- Be prepared for professional practice and to work in ethical manner with professional teams and to show professional development in their career.

**Learning Outcomes**

Graduates of the Environmental Science major will be able to:

- Define and explain basic principles and concepts in different environments and ecosystems.
- Explain the underlying causes for environmental degradation and conversations
- Conduct experiments using modern lab techniques and analyses, 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.
- Use techniques, skills and modern environmental tools in integration with applying professional, and ethical practice with multidisciplinary team in professional practice.

**Opportunities**

Graduates of the Environmental Science program are able to address the imminent and consequential projected needs of stakeholders in Qatar as well as in the global market. Graduates are presented with job opportunities in government agencies, non-governmental organization, industry and private sectors.

The Environmental Science program allows its graduates to be able to employed in a wide range of fields that include but are not limited to: Environmental Sustainability, Environmental Protection (Conservation Management), Environmental Control, Environmental Risk Management Urban and Environmental Planning.

**Science, Environmental Chemistry, Environmental Technology, Marine Biology, Water Resource(s) (Management), Environmental Analysis and Monitoring and Research in either Biotechnology or Marine Sciences.**

**Employment Options**

- Ministry of Environment
- Environmental Studies Center
- Industry (Qatar Petroleum, Ras Gas, Shell, and others)
- Ministry of Municipal and Urban planning
- Kahrama
- Research Labs
- Qatar University
- Qatar Foundation
- Supreme Council of Health
- Teaching at both school and college/university levels

**Admissions Requirements**

Applicants must satisfy QU defined College and Program requirements including the minimum high school percentage requirement.

In addition, applicants must hold a General Secondary Education Certificate or its equivalent for students of the scientific discipline.

**DEGREE REQUIREMENTS**

**Major in Environmental Science**

A minimum of 125 credit hours (CH) are required to complete the major in Environmental Science with concentration in Marine Sciences.

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 electives.
- A minimum of 126 credit hours (CH) are required to complete the major in Environmental Science with concentration in Marine Sciences.
• A minimum of 14 or 15 credit hours in concentration requirements: A minimum of 15 credit hours for the concentration in Biotechnology and a minimum of 14 credit hours 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 the CCP defined Social/Behavioral Sciences package.

Natural Science/Mathematics package (3 CH)
• MATH 101 Calculus I

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 (History of Qatar, HIST 121) part of the Humanities/Fine Arts package.

Supplemental College / Program Core Requirements Package (3 CH)
• UNIV 100 First Year Seminar

General Core Curriculum (10 CH)

General Knowledge package (3 CH)
SOCI 200 Sustainable Development

General Skills package (3 CH)
Courses in the CCP-defined General Skills package.

Major Requirements (54 CH)
Students must complete a minimum of 54 credit hours in Major required courses:
• BIOL 101 Biology I
• BIOL 102 Biology II
• BIOL 221 Basic Ecology
• BIOL 241 Microbiology
• BIOL 322 Desert Biology
• BIOL 345 Health Safety and Environment
• BIOL 399 Internship
• BIOL 422 Environmental Management and Conservation
• BIOL 496 Research Project
• CHEM 276 Principles of Environmental Chemistry
• CHME 361 Petroleum and Gas Technologies
• CVEN 342 Water Resources and Management
• CVEN 352 Waste Management
• GENG 107 Engineering Skills and Ethics
• GEOG 442 Environment and Pollution
• LAWC 449 Environmental Law and Regulations
• MARS 101 Introduction to Marine Science
• MARS 251 Marine Biology
• MARS 459 Environmental Impact Assessment

Major Electives (9 CH)
Students must complete a minimum of 9 credit hours in Major electives courses:
• BIOL 312 Genetics
• BIOL 344 General Parasitology
• BIOL 346 Environmental Health
• BIOL 351 Plant Anatomy and Physiology
• BIOL 362 Animal Anatomy and Physiology
• BIOL 421 Ecophysiology
• BIOL 444 Immunology
• BIOL 493 Special Topics
• BIOM 324 Medical Virology
• GEOG 204 General Economic Geography
• GEOG 242 Weather and Climate
• GEOG 243 Introduction to Remote sensing
• GEOG 246 Introduction to GIS
• GEOG 441 Geography of Qatar
• GEOG 448 Hydro-geography

Major Supporting Requirements (15 CH)
Students must complete a minimum of 15 CH in major supporting requirements:
• BIOL 103 Freshman Seminar
• CHEM 101 General Chemistry I
• CHEM 102 General Chemistry II
• CHEM 103 Experimental General Chemistry I
• CHEM 104 Experimental General Chemistry II
• PHYS 110 General Physics for Biology
• PHYS 111 Practical Physics for Biology
• STAT 151 Introduction to Applied Statistics

Concentration in Biotechnology (15 CH)
Students must complete a minimum of 15 CH in concentration requirements:
• BIOL 310 Molecular 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
• MARS 458 Fisheries and Aquaculture

Study Plan for Environmental Science - Biotechnology

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Total Credit Hours in Semester 16

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Total Credit Hours in Semester 18
### Study Plan for Environmental Science - Marine Sciences

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Chemistry. The department also offers minors in both Chemistry and Geology (for male students only). The "Chemistry Major" is accredited by the Canadian Society for Chemistry (CSC) since 2009. The Geology program in the department offers introductory geology courses to a wide variety of students and more advanced courses for students enrolled in geology minor. The Chemistry program in addition to offering a chemistry major and minor also offers a variety of service courses to different programs at Qatar University as well as serves Qatar community in many different ways. For example, departmental faculty offer consultancy service to industry via providing solutions for numerous scientific problems, extensive research collaborations, hosts symposia, workshops, public lectures and training programs for employees in many sectors.

OBJECTIVES

• Possess a fundamental knowledge of all major areas of modern chemistry.
• Be proficient in the use of up-to-date laboratory techniques.
• 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.

Note Related to Accreditation: The B.Sc. Chemistry Major Program was first accredited by CSC in 2009 and it has been re-accredited through 2025. The CSC provides accreditation to undergraduate chemistry programs in Canada and abroad. Accreditation process by CSC involves extensive review of chemistry program and its curriculum, with sufficient laboratory experience along with incorporation of advanced instrumentation and detailed safety standards, by international experts. Accreditation helps to maintain national and international standards of education by providing an external audit service for programs, and by promoting the portability of the qualifications of graduates.

Admissions Requirements

Applicants must satisfy QU defined College and Program Admission Requirements and a minimum of 13 credit hours in major Electives. Students must satisfy QU requirements for declaring a major including the need to declare the major before completing 36 UG credit hours (CH). In addition, students declaring a major in Chemistry must have completed the CHIM 101 course and a minimum of 9 CH in the core curriculum program requirements with a minimum cumulative GPA of 2.00.

DEGREE REQUIREMENTS

Major in Chemistry

A minimum of 120 credit hours (CH) 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 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 the CCP defined Social/Behavioral Sciences 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 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:

• A minimum of 3 Credit Hours

General Knowledge package (3 CH)

Courses in the CCP defined General Knowledge package.

Supplemental College / Program core requirements package (6 CH)

Students must complete a minimum of 6 credit hours from the following courses:

• BIOL 101 Biology I
• UNIV 100 First Year Seminar

Major Requirements (41 CH)

Students must complete a minimum of 41 credit hours in
Bachelor of Science in Chemistry

Study Plan

must take additional courses as free electives to complete

students are enrolled in a minor with less than 18 CH, they
the total number of credit hours for the minor is 18. If the
of the Minors offered within the university, provided that
Students enrolled in the Chemistry program may take any

• PHYS 103 General Physics I
• MATH 102 Calculus II
• CMPS 101 Introduction to Computer Science

Major Supporting Requirements (13 CH)
• CMPS 101 Introduction to Computer Science
• MATH 102 Calculus II
• PHYS 101 General Physics I
• PHYS 102 General Physics II
• PHYS 103 General Physics I Lab

Minor Requirements (18 CH)
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 students are enrolled in a minor with less than 18 CH, they must take additional courses as free electives to complete the 18 CH requirement.

Study Plan
Bachelor of Science in Chemistry

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**First Year (32 credit hours)**

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**Second Year (30-31 credit hours)**

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<tbody>
<tr>
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<td>CHEM 212</td>
<td>Organic Chemistry II</td>
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<td></td>
<td>CHEM 213</td>
<td>Experimental Organic Chemistry</td>
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<td>CHEM 221</td>
<td>Inorganic Chemistry I</td>
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<td></td>
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<td>Experimental Inorganic Chemistry</td>
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<td>PHYS 102</td>
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<td>PHYS 103</td>
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**Third Year (30-33 credit hours)**

<table>
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<td>Basic Biochemistry</td>
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<td></td>
<td>CHEM 352</td>
<td>Experimental Biochemistry</td>
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<td></td>
<td>CHEM 241</td>
<td>Physical Chemistry I</td>
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<td>CHEM 242</td>
<td>Experimental Physical Chemistry I</td>
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<td></td>
<td>CHEM 331</td>
<td>Analytical Chemistry II</td>
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<td>Minor course 3</td>
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<tr>
<td>Spring</td>
<td>CHEM 341</td>
<td>Physical Chemistry II</td>
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<td>CHEM 442</td>
<td>Experimental Physical Chemistry II</td>
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<td>Minor course 4</td>
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**Fourth Year (26 credit hours)**

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<td>Core curriculum course</td>
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<tr>
<td></td>
<td>Minor Elective course 3/4*</td>
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<td>CHEM 462</td>
<td>Research Project</td>
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<td>Chemistry Elective</td>
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<tr>
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<td>Core curriculum course</td>
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<tr>
<td></td>
<td>Minor Elective course 4/3*</td>
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<td></td>
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<td>Total Credit Hours in Semester</td>
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Students with minor in Human Nutrition will take 2 credit courses.

---

**Minor in Chemistry (18 CH)**

The minor in Chemistry provides students with knowledge of the general areas of chemistry, and allows them to apply this knowledge in other disciplines.

**Declaring the minor**

Applicants for the minor in Chemistry must satisfy QU requirements for declaring a minor.

**Minor in Chemistry (18 CH)**

Students seeking a minor in Chemistry must complete a minimum of 18 credit hours (CH), including the following:
"A minimum of 11 credit hours in Minor required courses"
"A minimum of 7 credit hours in Minor elective courses"

**Minor Required courses (11 CH)**

Students must complete a minimum of 11 credit hours in Minor required courses:
"CHEM 101 General Chemistry I"
"CHEM 102 General Chemistry II"
"CHEM 103 Experimental General Chemistry I"
"CHEM 209 Fundamentals in Organic Chemistry"

**Minor Elective courses (7 CH)**

Students must complete a minimum of 7 credit hours in Minor elective courses, selected from:
"CHEM 221 Inorganic Chemistry I"
"CHEM 223 Experimental Analytical Chemistry"
"CHEM 241 Physical Chemistry I"
"CHEM 242 Experimental Physical Chemistry I"
"CHEM 341 Physical Chemistry II"
"CHEM 342 Experimental Physical Chemistry II"

**Minor in Geology (18 CH)**

The minor in Geology provides students with an overview of the main topics in the discipline, allowing students to apply this knowledge in other areas.

**Declaring the minor**

Applicants for the minor in Geology must satisfy QU requirements for declaring a minor.

---

**Minor in Geology (18 CH)**

Students must complete a minimum of 18 credit hours in the minor.

**Minor Required courses (11 CH)**

Students must complete a minimum of 11 credit hours in the minor:
"CHEM 231 Analytical Chemistry I"
"CHEM 234 Experimental Analytical Chemistry"
"CHEM 241 Physical Chemistry I"
"CHEM 242 Experimental Physical Chemistry I"
"CHEM 341 Physical Chemistry II"
"CHEM 351 Basic Biochemistry"

**Minor Elective courses (7 CH)**

Students must complete a minimum of 7 credit hours in the minor:
"CHEM 221 Inorganic Chemistry I"
"CHEM 223 Experimental Analytical Chemistry"
"CHEM 241 Physical Chemistry I"
"CHEM 242 Experimental Physical Chemistry I"
"CHEM 341 Physical Chemistry II"
"CHEM 351 Basic Biochemistry"
"CHEM 352 Experimental Biochemistry"
"CHEM 391 Advanced Biochemistry"
department of mathematics, statistics and physics

College of Arts and Sciences Building
Corridor 1, Room A105 (Men's Section)
Phone: (974) 4403-4604 / 4605
Email: math-physics@qu.edu.qa
Website: http://www.qu.edu.qa/artsciencess/math-physta/

Head
Leena Al Sulaiti

Faculty:

Professors:
Imam Al-Qaradawi, Ayman Bakhti, Mohammad Salehi, Hussain Al-Gasseem, Mohammad Saleer Hussan Khan, Mohammad Tahir Mustafa, Mohamed Nasser, Mohammad Jaradat, Abouazid Shalaby

Associate Professors:

Assistant Professors:

Lecturers:
Hasan Abdalla, Sahbi Ayari, Oyeloloa Abdulwasiu Adegbeye, Khalid Al-Qadi, Samir Naqos, Walid Hazim

Teaching Assistants:
Huda Fadel Al Yali, Mouneera Al-Sabebi, Ignatius Prasteen Pinto, Mohamed Abdul Mujeb Khan, Tawfik Ben Jabeer, Fatima Meziane, Soed Marzeh, Nahla Elbashir, Ehab Salih, Samir Naqos, Walid Hazim

Lab Technician:
Omer Madani, Ahmed Edriss, Mona Al-Rayashi, Mohammad El Shaer, Ahmad Amin.

Administrative:
Mozza Al Askaw, Fatima Abdullah and Jawhara Mohammed Abdul Qader

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 55 staff members, 9 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 a major that leads to the Bachelor degree in Science in Statistics with minor in computer science, business or social science. The other major is in Mathematics with concentration in either Actuarial Mathematics or Applied Mathematics. The department also offer a Master program in Applied Statistics and offers also service courses for various Colleges and Programs within the University.

BACHELOR OF SCIENCE IN STATISTICS

Program Objectives
• Gain knowledge in the principles of statistics and its application to the other related fields of applications.
• Have a good training in statistical computing necessary to conduct different kinds of data analysis.
• Build Strong theoretical background for the statistical techniques used.
• Have a good understanding of the statistical principles and methods necessary to collect data including experimental design and statistical surveys.
• Gain the ability to provide sound "statistical consultation" to users of statistics in the different disciplines.
• Acquire the ability to communicate effectively orally and in writing to undertake statistical tasks.
• Promote critical learning skills and enabling students to be lifelong learners.

Learning Outcomes
1. Collect data that conform with the statistical principles.
2. Use relevant experimental design for scientific investigations.
3. Describe various types of data numerically and graphically.
4. Analyze various types of data using statistical packages.
5. Communicate effectively with statistics users
6. Demonstrate the theoretical basis of statistical methods.
7. Provide alternative techniques for data analysis based on various approaches.

Opportunities
Graduates of the Statistics major have a number of employment opportunities. They have places in government agencies, non-governmental organizations and in the private sector in financial institutions, education and research organizations. Knowledge of the statistical data analysis techniques allows graduates to also be employed by research and consulting agencies.

Admissions Requirements
Applicants must satisfy QU defined College and Program requirements including the minimum high school percentage requirement. Detailed Undergraduate admission requirements are available at the following link: http://www.qu.edu.qa/sites/en_US/students/admission/undergraduate

Declaring the major
Students must satisfy QU requirements for declaring a major. In addition, students declaring a major in Statistics must have completed a course of 9 CH in the core curriculum program requirements with a minimum cumulative GPA of 2.00.

Degree requirements

Major in Statistics
A minimum of 120 credit hours are required to complete the major in Statistics, including the following:
• A minimum of 33 credit hours in Core Curriculum requirements.
• A minimum of 39 credit hours in Major Requirements.
• A minimum of 12 credit hours in Major Electives.
• A minimum of 12 credit hours in Major Supporting requirements.
• A minimum of 24 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 (3CH)
Courses in the CCP defined Social/Behavioral Sciences package.

Humanities / Fine Arts package (3CH)
Students must complete 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)
Courses in the CCP defined Natural Science/Mathematics package.
Students enrolled in the Statistics program may take any of the following courses to fulfill their requirements.

**Minor Requirements (24 CH)**

Students seeking a minor in Statistics must complete a minimum of 6 credit hours in Minor electives courses:
- STAT 221 Mathematical Statistics I
- STAT 241 Biostatistics
- STAT 242 Demography
- 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 482 Nonparametric Methods

**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 18 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 322 Mathematical Statistics II
- STAT 332 Design of Experiments
- STAT 333 Time Series
- STAT 343 Applied Survival Analysis
- STAT 344 Quality Control
- STAT 361 Sampling Methods
- STAT 371 Statistical Packages

**Major Electives (12 CH)**

Students must complete a minimum of 12 credit hours in Major electives courses:
- STAT 221 Mathematical Statistics I
- STAT 241 Biostatistics
- STAT 242 Demography
- 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 482 Nonparametric Methods
- STAT 483 Bayesian Statistics
- STAT 498 Special Topics

**General Knowledge package (3 CH)**

Courses in the CCP defined General Knowledge package.

**General Skills package (3 CH)**

Courses in the CCP defined General Skills package.

**Major Core Requirements (39 CH)**

Students must complete a minimum of 39 credit hours in Major required courses:
- STAT 101 Statistics I
- STAT 102 Statistics II
- STAT 211 Introduction to Probability
- STAT 221 Mathematical Statistics I
- STAT 231 Applied Regression Analysis
- 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 482 Nonparametric Methods

**Major Electives (12 CH)**

Students must complete a minimum of 12 credit hours in Major electives courses:
- STAT 221 Mathematical Statistics I
- STAT 241 Biostatistics
- STAT 242 Demography
- 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 482 Nonparametric Methods
- STAT 483 Bayesian Statistics
- STAT 498 Special Topics

**Major Supporting Requirements (12 CH)**

Students must complete a minimum of 12 credit hours in Major supporting requirements:
- MATH 101 Calculus I
- MATH 102 Calculus II
- MATH 231 Linear Algebra
- MATH 251 Mathematics for Statistics

**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.

Declare the minor

Applicants for the minor in Statistics must satisfy QU requirements for declaring a minor.

---

**Study Plan for Statistics**

Bachelor of Science in Statistics

**FIRST YEAR (30 credit hours)**

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<th>Course Title</th>
<th>Credit Hours</th>
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<td>STAT 101</td>
<td>Statistics I</td>
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<td>MATH 101</td>
<td>Calculus (1)</td>
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<td>STAT 102</td>
<td>Statistics II</td>
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<td>MATH 102</td>
<td>Calculus (2)</td>
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**SECOND YEAR (30 credit hours)**

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<td>Introduction to Probability</td>
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<td>MATH 231</td>
<td>Linear Algebra</td>
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<td>MATH 251</td>
<td>Mathematics for Statistics</td>
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<td>Core Curriculum Course 7</td>
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<td>STAT 221</td>
<td>Mathematical Statistics I</td>
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<td>Applied Regression Analysis</td>
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**THIRD YEAR (30 credit hours)**

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<td>STAT 312</td>
<td>Stochastic Processes</td>
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<td>STAT 322</td>
<td>Mathematical Statistics II</td>
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<td>STAT 371</td>
<td>Statistical Packages</td>
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<td>STAT 332</td>
<td>Design of Experiments</td>
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<td>STAT 333</td>
<td>Time Series</td>
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<td>Sampling Methods</td>
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**FOURTH YEAR (30 credit hours)**

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</tbody>
</table>
The Mathematics Program offers two focus areas: Applied Mathematics and Actuarial Mathematics. The applied focus area aims to provide the industry and education sectors with graduates that can use their modeling and mathematical skills to solve real problems. On the other hand, the actuarial focus area aims to provide the financial and insurance industries and institutions with experts who are capable to analyze and assess risk in insurance, financial markets and other industries and professions.

Objectives
1. To provide a coherent, solid foundation in Mathematics.
2. To prepare students to understand Mathematics as an academic and applied discipline, and as a profession.
3. To develop student capacity to understand mathematical reasoning and modeling tasks.
4. To provide opportunities for further specialization in Mathematics related to career orientation.
5. To Promote critical learning skills and enabling students to be lifelong learners.
6. To emphasize modern applications through exposure to relevant subjects that are essential for broad career in mathematical sciences.

Learning Outcomes
Upon completion of the program, students will be able to:
1. Formulate and examine the correctness of mathematical arguments.
2. Analyze mathematical models from real-life problems.
3. Solve a problem from visual, numerical and symbolic perspectives.
4. Communicate mathematical ideas orally and in writing.
5. Make use of, and relate to, the aids and tools of mathematics, including IT.
6. Apply appropriate problem-solving strategies.
7. Illustrate mathematical models by using computer packages.
8. Make contributions to some research projects and new applications within the field.

Opportunities
Students graduating with degree in Mathematics are equipped with capabilities to work in diverse areas like financial sectors, industry, business, education, and government or commercial organizations. Graduates with focus in Actuarial Mathematics can work in Life insurance, General insurance, Pensions, Health insurance, Finance, Investment firms, Banks, Risk Management firms, Health care sector, any local or international organization that deals with analyzing risk and its financial impact. The program also prepares the students to pursue graduate studies.

Admissions Requirements
Applicants must satisfy QU defined College and Program requirements including the minimum high school percentage requirement.
Detailed Undergraduate admission requirements are available at the following link: http://www.qu.edu.qa/sites/en_US/students/admission/undergraduate

Declaring the major
Students must satisfy QU requirements for declaring a major. In addition, students declaring a major in Mathematics must have completed a minimum of 9 CH in the core curriculum program requirements with a minimum cumulative GPA of 2.00.

DEGREE REQUIREMENTS
Major in Mathematics
A minimum of 120 credit hours are required to complete the major in Mathematics, including the following:
1. A minimum of 33 credit hours in Core Curriculum requirements
2. A minimum of 45 credit hours in Major Requirements
3. A minimum of 42 credit hours in Minor requirements
4. A minimum of 3 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 202 English Language I Post Foundation
• ENGL 203 English Language II Post Foundation
• DAWA 111 Islamic Culture

Social/Behavioral Sciences package (3CH)
Courses in the CCP defined Social/Behavioral Sciences 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 part of the Humanities/Fine Arts package.

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

Supplemental College / Program Core Requirements Package (3 CH)

• UNIV 100 First Year Seminar

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

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

Major Core Requirements (45 CH)
• MATH 101 Calculus I
• MATH 102 Calculus II
• MATH 211 Calculus III
• MATH 213 Differential Equations
• MATH 220 Foundations of Mathematics
• MATH 222 Real Analysis
• MATH 231 Linear Algebra
• MATH 291 Financial Mathematics
• MATH 312 Calculus IV
• MATH 365 Scientific Computation and Programming
• MATH 366 Numerical Analysis I
• STAT 101 Statistics I
• STAT 102 Statistics II
• STAT 211 Introduction to Probability
• STAT 312 Stochastic Processes
• MATH 496 Capstone Course
• MATH 499 Internship

Focus Area Requirements package (9 CH)
Students must complete 9 CH from the Applied Mathematics or the Actuarial Mathematics focus areas offered by the program by completing either the Applied Mathematics focus area requirements sub-package or the Actuarial Mathematics focus area requirements sub-package defined below.

Applied Mathematics Focus Area Requirements sub-package (9 CH)
Students who choose to complete the Applied Mathematics focus area requirements must complete 9 CH from the following courses:
• MATH 314 Partial Differential Equations
• MATH 324 Complex Analysis
• MATH 471 Mathematical Modelling

Actuarial Mathematics Focus Area Requirements sub-package (9 CH)
Students who choose to complete the Actuarial Mathematics focus area requirements must complete 9 CH from the following courses:
• MATH 202 Actuarial Sciences Problems Solving Lab
• MATH 391 Life Contingencies I
• MATH 392 Life Contingencies II

Major Electives package (6 CH)
Students must complete 6 CH from courses from the following courses:
• MATH 233 Abstract Algebra
• MATH 335 Number Theory
• MATH 341 Modern Geometry
• MATH 368 Operations Research I
• MATH 371 Advanced Mathematical Methods
• MATH 413 Theory of Differential Equations
• MATH 443 Introduction to Differential Geometry
• MATH 466 Numerical Analysis II
• MATH 498 Special Topics
• STAT 231 Applied Regression Analysis
• STAT 333 Time Series
• STAT 341 Actuarial Statistics I

Minor Requirements package (24 CH)
Students enrolled in the Mathematics program may take any of the minors offered within the university. If the minor the students enrolled in requires less than 24 CH, students must take additional courses outside their major as free electives to complete the 24 CH requirements.

Free Electives package (3 CH)
Students enrolled in the Mathematics program must complete a minimum of 3 credit hours from courses outside the Mathematics major.
### Study Plan for the Bachelor in Mathematics

#### FIRST YEAR (30 credit hours)

<table>
<thead>
<tr>
<th>Term</th>
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<tr>
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#### SECOND YEAR (30 credit hours)

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#### THIRD YEAR (30 credit hours)

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<td>STAT 312 Stochastic Processes</td>
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<td>Free Elective Course</td>
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<td>MATH 496 Capstone Course</td>
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</table>

### SPORTS SCIENCE PROGRAM

**Women’s Main Building, Room 227 (Women’s Section)**

Phone: (974) 4403 4864 / 4966

Email: sportsscience@qu.edu.qa

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

**Director**

Mahfoud Amara

**Faculty**

Mohem Jemni

**Assistant Professors**

Bryna Catherine Rose Chrisman, Ferman Konukman, Lina Majed, Mahfoud Aman, Walid Buki, Zousanna Kneffel, Georges Jabbour, Moncem Haddad

**Lecturer**

Senait Al-Marri

**Teaching Assistant**

Cassie Frasher, Khouloud Mitbaa, Zlatan Aganovic

**Admin Assistant**

Lamia Kazem Mansour

### ABOUT THE DEPARTMENT

The Sport Science Program offers a Bachelor (B.Sc.) degree and provides a comprehensive coursework and field experience that will educate its students for professions in a broad scope of sports business, exercise and fitness enterprises, and educational institutions.

Committed to providing an innovative curriculum which will be continuously updated, the Program is differentiated into three concentrations: 1. Physical Education 2. Exercise and Fitness 3. Sport Management.

The Sport Science Program at Qatar University consists of three specializations: Exercise and Fitness, Sport Management, and Physical Education.

1. **Exercise and Fitness concentration** seeks to train students to work in the growing sport market and industry in Qatar and in the region (e.g. sport marketing, event management, sport and development)

2. **Exercise and Fitness concentration** focuses on the physiological, psychological, social and biomechanical effects of exercise and physical activity in different populations, to promote health and well-being within Qatar.

3. **Physical Education concentration** aims to train PE school teachers to work in schools and with the community.

These specializations have been established to match the country’s needs in regards to the National Vision 2030, the Sport Sector Strategy 2011-2016, and certainly the FIFA Football World Cup 2022. Our unique program is designed to target the important need to initiate a lifestyle change among the local population and promoting a healthier life-style. It addresses issues such as obesity and diabetes and other health problems related to lack of physical inactivity. To examine the impact of formal and informal sport activities on the wellbeing of the population.

Finally, Qatar hosts around 45 international sport events every year. Our program helps the State of Qatar to train home grown specilists in the area of sport management (including sport finance, sport governance, sport marketing, and sport development).

In addition to teaching, the program aims to contribute with interdisciplinary impactful research outputs in different areas of sport studies; organized under the following pillars to meet the national research priorities: Sport, Culture and Identity; Sport Performance; Sport, Health and well-being. These research clusters group a number of sport sciences disciplines: sport psychology, sport nutrition, sport and human movement, sport physiology, sport management and school sport.

### 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 to the students the physiological basis for exercise and physical activity in direct application to 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 train students to work in different sport organizations and sectors, including sport business; sport and health provisions; elite sport and community sport development; school sport; sport sciences research field
- The program will train students to comprehend the social, economic, cultural and political environments around sport practice at different levels (community sport, elite sport,
Admissions Requirements
Applicants must satisfy QU requirements for declaring undergraduate.

Declaring the major
Students must satisfy QU requirements for declaring the major including the need to declare the major before completing 36 UG credit hours. In addition, students declaring a major in Sport Science must have completed a minimum of 8 CH in the core curriculum program requirements with a minimum cumulative GPA of 2.00 including BIOL 101 course or must have completed a minimum 9 credit hours with GPA 2.5.

Additional Requirements
• Medical clearance for participating in physical activity.
• All applicants to the Sports Science Program will be required to appear for a personal interview.

DEGREE REQUIREMENTS

Major in Sport Science
A minimum of 120 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 the CCP defined Social/Behavioral Sciences package.

Humanities /Fine Arts package (3 CH)
Students must complete a minimum of 3 Credit Hours from the following:

• SPSC 101 Traditional and New Games
• SPSC 200 Theory and Practice Individual Sports I
• SPSC 201 Theory and Practice (Team Sports) I
• SPSC 202 Theory and Practice (Team Sports) II
• SPSC 203 Exercise Physiology I
• SPSC 204 Theory and Practice Individual Sports II
• SPSC 206 Performance Methods in Exercise Science and Health
• SPSC 210 Principles of Training and Coaching I
• SPSC 305 Sport Marketing and Management I
• SPSC 309 Exercise and Aging
• SPSC 318 Exercise Psychology
• SPSC 403 Exercise, Obesity and Diabetes
• SPSC 404 Exercise and Heart Disease
• SPSC 405 Testing and Exercise Prescription

Exercise and Fitness Concentration Supporting Requirements (12 CH)
Students must complete a minimum of 24 credit hours in concentration requirements and 12 CH in concentration supporting requirements.

Sport Management Concentration Requirement (24 CH)

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 Supporting Requirements (12 CH)
• SPSC 305 Sport Marketing and Management I
• SPSC 407 Sport Governance and Economics I

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 307 Exercise Physiology II
• SPSC 309 Exercise and Aging
• SPSC 318 Exercise Psychology
• SPSC 403 Exercise, Obesity and Diabetes
• SPSC 404 Exercise and Heart Disease
• SPSC 405 Testing and Exercise Prescription

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.

Exercise and Fitness Concentration Supporting Requirements (12 CH)
• SPSC 305 Sport Marketing and Management I
• SPSC 407 Sport Governance and Economics I
• SPSC 409 Sport Marketing and Management II
• SPSC 410 Sport Governance and Economics II

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 307 Exercise Physiology II
• SPSC 309 Exercise and Aging
• SPSC 318 Exercise Psychology
• SPSC 403 Exercise, Obesity and Diabetes
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Concentration in Sport Management (36 CH)
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Sport Management Concentration Requirement (24 CH)

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Students must complete a minimum of 24 credit hours in concentration requirements and 12 CH in concentration supporting requirements.

Sport Management Concentration Supporting Requirements (12 CH)
• SPSC 305 Sport Marketing and Management I
• SPSC 407 Sport Governance and Economics I
• SPSC 409 Sport Marketing and Management II
• SPSC 410 Sport Governance and Economics II

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.
### Study Plan for Sport Management
Sports Science Program

**FIRST YEAR (30 credit hours)**

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<td>BIOL 101</td>
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<td>MATH 119</td>
<td>Business Math</td>
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<td>SPSC 101</td>
<td>Traditional and New Games</td>
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<td>Fall</td>
<td>SPSC 201</td>
<td>Theory and Practice of Team Sports I</td>
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<td>BIOM 211</td>
<td>Human Anatomy</td>
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<td>Spring</td>
<td>BIOM 215</td>
<td>Human Physiology</td>
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<td>Spring</td>
<td>SPSC 200</td>
<td>Theory and Practice Individual Sport I</td>
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**SECOND YEAR (30 credit hours)**

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<td>Res Methods in Exercise Science and Health</td>
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**THIRD YEAR (30 credit hours)**

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<td>ECON 111</td>
<td>Principles of Microeconomics</td>
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**FOURTH YEAR (27 credit hours)**

### Study Plan for Exercise and Fitness Concentration
Sports Science Program

**FIRST YEAR (30 credit hours)**

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**SECOND YEAR (30 credit hours)**

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<td>Sport Marketing + Management II</td>
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**THIRD YEAR (30 credit hours)**

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<td>Theory and Practice of Team Sports I</td>
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<td>MATH 103</td>
<td>Numbers and Basic Algebra</td>
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<td>EDUC 317</td>
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### FOURTH YEAR (27 credit hours)

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### Study Plan for Physical Education Concentration

Sports Science Program

### FIRST YEAR (30 credit hours)

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<td>BIOL 101</td>
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COLLEGE OF HEALTH SCIENCES

College of Sciences Building, (Women's Section)
Phone: (974) 4403-4800
Email: health@qu.edu.qa
Website: http://www.qu.edu.qa/chs/

Dean
Asmaa Althani
Associate Dean for Academic Affairs
Ahmed Malki
Assistant Dean for students affairs
Al-Kubaisi

ABOUT THE COLLEGE

Established in 2016, upon the cornerstone of a perpetual pursuit of knowledge and academic excellence, the CHS is one of the most intellectually vibrant Health Sciences higher educational establishments in the State of Qatar. Comprised of four departments—Biomedical Science (BSc. & MSc.), Public Health (BSc. & MPH), Human Nutrition (BSc.) and physical therapy and Rehabilitation Sciences (BSc) the CHS is committed to fostering a student-centric learning environment that emphasizes scholarship through research and life-long learning to cultivate leaders in the field of Health Sciences who are nationally and internationally renowned. The standardized services the CHS provides students, in combination with state-of-the-art, well-equipped laboratories; modernized, easily accessible facilities; and a dynamically talented and diverse faculty create an unparalleled atmosphere of innovativeness and academic rigor. Within a culture of collaboration with other healthcare institutes in Qatar, the CHS is also committed to graduating the most knowledgeable and highly-skilled professionals. These professionals have the capacity to develop creative new solutions to major health problems faced by the citizens of Qatar, thereby significantly enhancing the quality of the healthcare sector in Qatar, as well as the quality of life for the great people of Qatar.

BIOMEDICAL SCIENCE DEPARTMENT

Head
Marawan Abu Madi

Professors
Asma Al-Thani

Associate Professors
Ahmed Malki, Nasser Rizk, Pejman Moghaddam, Gianfranco Pintus

Assistant Professors
Gheyath Naserallah, Elham Sherif, Hatem Zayed, Ibrahim Mustafa, Maha Al-Aasmak, Mashael Nedham Alshafai

Teaching Assistants
Amna Al-Thani, Hala Bargal, Maria Ali, Sumbul Bushra, Toghreed H. A. Abunada, Tameem Hadwan, Rasha Abu El-Ruz

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 theoretical knowledge, practical, critical thinking & communication skills, with emphasis on ethics for the healthcare industry. Our graduates are committed to life-long learning and adapt to the changing 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.

Learning Outcomes
1. Demonstrate conceptual knowledge in biomedical field.
2. Perform basic laboratory techniques in biomedical labs.
3. Comply with safety regulations and universal precaution.
4. Communicate effectively with colleagues and clients.
5. Solve problems related to test results discrepancy.
6. Integrate patient data for evaluation of validity of laboratory test results.
7. Apply computer technology in clinical laboratory data processing, data reporting and information retrieval.
8. Maintain strong professional ethics.
9. Adjust effectively in team working.
10. Conduct research related to Biomedical Sciences

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
county 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
773.714.8886 (FAX)
www.naaccsl.org
Admissions Requirements
Applicants must satisfy QU defined College and Program
requirements including the minimum high school
percentage requirement.
Detailed Undergraduate admission requirements are
available at the following link:

Declaring the major
Students must satisfy QU requirements for declaring a
major including the need to declare the major before
completing 36 undergraduate credit hours. In addition,
students declaring a major in Biomedical Sciences must
have completed a minimum of 12 CH in General Science
with GPA of 2.00 that includes BIOL 101 with a minimum
grade of C and completed the Qatar University Foundation
Program Requirements.

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 comprise the courses in the student’s last
semester of study.

DEGREE REQUIREMENTS

Major in Biomedical Science
A minimum of 135 credit hours (CH) 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 Supporting
Requirements
• A minimum of 4 credit hours in Major Electives

Core Curriculum Program (33 CH)

Common packages (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 the CCP defined Social/Behavioral Sciences
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
part of the Humanities/Fine Arts package.

Natural Science/Mathematics package (3 CH)
• MATH 101 Calculus I

Supplemental College / Program Core Requirements
Package (3 CH)
• UNIV 100 First Year Seminar

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

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

Major Requirements (61 CH)
Students must complete a minimum of 61 credit hours in
Major required courses:

• BIOM 320 Medical Molecular Biology
• BIOM 301 Lab Management and QC
• BIOM 322 Medical Microbiology
• BIOM 323 Medical Parasitology
• BIOM 324 Medical Virology
• BIOM 346 Clinical Chemistry
• BIOM 418 Pharmacology and Toxicology
• BIOM 422 Diagnostic Microbiology
• BIOM 426 Clinical Immunology
• BIOM 444 Histopathology
• BIOM 446 Urine Analysis and Body Fluids
• BIOM 451 Hematology and Hemostasis
• BIOM 452 Immunohematology & Blood Bank
• BIOM 463 Endocrinology
• BIOM 491 Clinical Practice in Chemistry
• BIOM 492 Clinical Practice in Hematology
• BIOM 493 Clinical Practice in Immunology
• BIOM 494 Clinical Practice in Microbiology
• BIOM 495 Clinical Practice in Immunohematology
• 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 General Chemistry II
• CHEM 209 Fundamentals in Organic Chemistry
• CHEM 351 Basic Biochemistry
• CHEM 352 Experimental 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 406 Special Topics
• BIOM 411 Forensic Science
• BIOM 421 Analytical Chemistry I
• BIOM 423 Analytical Chemical Analysis
• PHYS 110 General Physics for Biology
• PHYS 111 Practical Physics for Biology

Study Plan for the Biomedical Sciences program:
students joining the program in Fall

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Fall 1st Semester

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## Study Plan for Biomedical Sciences program: students joining the program in Spring

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### Spring 6th Semester

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### Fall 6th Semester

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### Spring 7th Semester

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## HUMAN NUTRITION DEPARTMENT

**BACHELOR OF SCIENCE IN HUMAN NUTRITION**

**Head**
Tahra El-Obeid

**Full Professors**
Hiba Bawadi
Mohamed Ahmedna

**Associate Professors:**
Abdelhamid Kerkadi
Vijay Ganji

**Lecturers**
Tamarra Al-Abdi,

**Teaching Assistants:**
Nancy Milan
Joyce Moawad
Grace Attieh

**Laboratory Technologist:**
Jaafar Pakari

**Objectives**
The Human Nutrition Department at Qatar University provides the students with course work and supervised professional practice to prepare students for entry level practice in dietetics, nutrition and food industry professions. The knowledge and professional skills the students acquire in the nutritional sciences and food science give the student an understanding of community nutrition and medical nutrition therapy and foodservice operation and management. Upon graduation with a B.Sc in Human Nutrition, the student is qualified for employment in nutrition, dietetics, food industry and related areas, and to continue graduate studies.

**Learning Outcomes**
- CRD 1.1: Select appropriate indicators and measure achievement of clinical, programmatic, quality, productivity, economic or other outcomes.
- CRD1.2: Apply evidence-based guidelines, systematic reviews and scientific literature (such as the ADA Evidence Analysis Library, Cochrane Database of Systematic Reviews and the U.S. Department of Health and Human Services, Agency for Healthcare Research and Quality, National Guideline Clearghouse Web sites) in the nutrition care process and model and other areas of dietetics practice.
- CRD 1.3: Justify programs, products, services and care using appropriate evidence or data.
• CP 3.1.a: Assess the nutritional status of individuals, and educational background.

• CP 3.1.b: Diagnose nutrition problems and create interventions (PES) statements.

• CP 3.1.c: Plan and implement nutrition interventions to include prioritizing the nutrition diagnosis, formulating a nutrition prescription, establishing goals and selecting and managing intervention.

• CP 3.1.d: Monitor and evaluate problems, etiologies, signs, symptoms and the impact of interventions on the nutrition diagnosis.

• CRD 3.2: Develop and demonstrate effective communications by using oral, print, visual, electronic and mass media methods for maximizing client education, employee training and marketing.

• CRD 3.3: Develop and deliver programs, products or services that promote consumer health, wellness and lifestyle management, merging consumer desire for taste, convenience and nutrition, the safety and health messages and interventions.

• CRD 3.4: Deliver respectful, science-based answers to consumer questions concerning emerging trends.

• CRD 3.5: Coordinate procurement, production, distribution and service of goods and services.

• CRD 3.6: Develop and evaluate recipes, formulas and menus for acceptability and affordability that accommodate the cultural diversity and health needs of various populations, groups and individuals.

Admissions Requirements

Applicants must satisfy QU defined College and Program requirements including the minimum high school graduation requirement. Detailed Undergraduate admission requirements are available at the following link: http://www.qu.edu.qa/sites/en_US/students/admission/undergraduate

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.

Degrees

Major in Human Nutrition

A minimum of 132 credit hours (CH) are required to complete the major in Human Nutrition, including the following:

- A minimum of 33 credit hours in Core Curriculum requirements
- A minimum of 9 credit hours in Major Requirements
- A minimum of 52 credit hours in Nutrition & Dietetics requirements
- A minimum of 9 credit hours in Food Sciences and Technology requirements
- A minimum of 29 credit hours in Major supporting 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

DOW 111 Islamic Culture

Social/Behavioural Sciences package (3 CH)

Courses in the CCP defined Social/Behavioural Sciences pack.

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 part of the Humanities/Fine Arts package

Natural Science/Mathematics package (3 CH)

Courses in the CCP defined Natural Science/Mathematics package.

Supplemental College / Program Core Requirements

Package (3 CH)

• UNIV 100 First Year Seminar

General Knowledge package (3 CH)

Courses in the CCP defined General Knowledge package.

General Skills package (3 CH)

Courses in the CCP defined General Skills package.

Major Requirements (70 CH)

Students must complete a minimum of 70 CH in Major required courses including 9 CH in Major core requirements, 52 CH in Nutrition & Dietetics package requirements, and 9 CH in Food Sciences and Technology Package Requirements.

Major Core Requirements package (9 CH)

Students must complete a minimum of 9 CH in major core requirements including:

- NUTR 201 Human Nutrition
- NUTR 321 Food Chemistry
- NUTR 352 Nutritional Metabolism
Nutrition & Dietetics package (52 CH)

Students must complete a minimum of 52 CH in Nutrition & Dietetics package requirements:

• NUTR 223 Introduction to Dietetic Profession
• NUTR 363 Nutrition Education and Communication
• NUTR 338 Nutrition through the Lifespan
• NUTR 340 Assessment of Nutritional Status
• NUTR 439 Meal Planning & Evaluation
• NUTR 460 Medical Nutrition Therapy I
• NUTR 451 Medical Nutrition Therapy II
• NUTR 454 Medical Nutrition Laboratory I
• NUTR 463 Medical Nutrition Laboratory II
• NUTR 457 Public Health Nutrition
• NUTR 470 Clinical Pediatric Nutrition
• NUTR 490 Capstone Course
• NUTR 491 Nutrition Seminar
• NUTR 492 Research Methodologies in Human Nutrition
• NUTR 494 Supervised Dietetic Practice I (15 weeks)
• NUTR 495 Supervised Dietetic Practice II (15 Weeks)

Food Sciences and Technology package (9 CH)

Students must complete a minimum of 9 CH in Food Sciences and Technology package requirements:

NUTR 319 Quantity of Food Production & Equipment

Major Supporting requirements (29 CH)

Students must complete a minimum of 29 CH in Major supporting courses:

• BIOL 101 Biology I
• BIOL 241 Microbiology
• BIOM 211 Human Anatomy
• BIOM 215 Human Physiology
• BIOM 217 Human Genetics
• CHEM 101 General Chemistry
• CHEM 103 General Chemistry
• CHEM 209 Fundamentals in Organic Chemistry
• CHEM 351 Basic Biochemistry
• CHEM 352 Experimental Biochemistry
• STAT 101 Statistics I

Study Plan for Human Nutrition

Bachelor of Sciences in Human Nutrition

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THIRD YEAR (34 credit hours)

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<td>NUTR 340</td>
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FIFTH YEAR (10 credit hours)

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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.

Declaring the minor

Applicants for the minor in Human Nutrition must satisfy OU requirements for declaring a minor. Applicant should have a minimum overall GPA of 2.8. Top 15 students are accepted in the minor per year.

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 9 CH in Minor requirements
• A minimum of 9 CH in Minor electives

Minor Requirements package (9 CH)

Students must complete a minimum of 9 CH in Minor required courses:

• NUTR 231 Human Nutrition
• NUTR 321 Food Chemistry
• NUTR 338 Nutrition through the Lifespan

Minor Electives package (9 CH)

Students must complete a minimum of 9 CH in Minor elective courses including:

• NUTR 319 Quantity of Food Production & Equipment
• NUTR 338 Nutrition through the Lifespan
• NUTR 352 Nutritional Metabolism
• NUTR 353 Nutrition Education and Communication
• NUTR 441 Food Safety and Quality Control
• NUTR 460 Food Service Operations
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 related to the population in addition to the appropriate and effective interventions to address them. Crucially, the public health approach reaches beyond the individual-level to the public health approach that positively impact human health on both a national and regional levels. Through high-quality experiential learning and relevant research, the Program will promote the concepts and practice of health promotion, disease prevention, national policy making, and effective and efficient management of preventive and curative health services and programs.

Learning Outcomes
The key learning outcomes for the Program are as follows:

1. Health Management
   - Teach students the basics of health service organization, financing, and management.
2. Education
   - Promote the concepts and practice of health promotion, rational policy making, and effective and efficient management of health policies and interventions.
3. Practice
   - Teach students the concepts and practices of health promotion and disease prevention and the complexities of eliminating health disparities in human populations.
4. Research
   - Teach students the concepts and practices of health research, health program planning, policy formulation and assessment, management, program evaluation and education.
5. Assessment
   - Assess evidence used to implement and evaluate public health interventions.

Objectives
The objectives of the Public Health Program are to:

1. Health Management
   - 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 students both for further graduate work and for careers in the field of public health. Given the specific concentrations of the program, graduates of the program are expected to find employment opportunities in health care organizations and government agencies outside the health sector (such as schools and non-governmental organizations) in capacities related to health research, health program planning, policy formulation and assessment, management, program evaluation and 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

Assessing the Appropriateness and Impact of Health Education Strategies and Interventions

In addition to the learning outcomes common to all concentrations, students in the Health Education concentration will develop the ability to:

- Design health education strategies and interventions.
- Assess the appropriateness and impact of health education strategies and interventions.

Supplemental College / Program Core Requirements

- PUBH 201 Environmental Health and Disease
- PUBH 101 Public Health Sciences: Principles and Practice
- PUBH 202 Health, Behaviour and Society
- PUBH 203 Research Methods for Public Health
- PUBH 241 Biostatistical Methods for Public Health
- PUBH 201 Environmental Health and Disease
- PUBH 202 Health, Behaviour and Society
- PUBH 203 Research Methods for Public Health
- PUBH 241 Biostatistical Methods for Public Health
- PUBH 201 Environmental Health and Disease
- PUBH 202 Health, Behaviour and Society
- PUBH 203 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 499 Capstone

Major Supporting Requirements (12 CH)
Students must complete a minimum of 12 credit hours in major supporting requirements:
• BIOL 110 Human Biology
• BIOM 243 Introduction to Pathology
• CHEM 101 General Chemistry 1
• CHEM 103 Experimental General Chemistry 1
• STAT 101 Statistics 1

Concentration in Health Education (27 CH)
Students must complete a minimum of 27 credit hours in the Health Education concentration requirements package.

Health Management Concentration Requirements package (27 CH)
Students must complete the following courses:
• ECON 111 Principles of Microeconomics
• MAGT 101 Principles of Management
• MAGT 302 Human Resource Management
• PUBH 333 Strategic Planning and Marketing
• PUBH 338 Financial Management of Health Care
• PUBH 390 Field Experience
• 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 courses selected from the following:
• POPL 300 Principles and Tools for Evidence-Based Policy Decision Making
• POPL 340 Organizational Behavior and Management in Public Service Agencies
• PUBH 200 International Health and Global Society
• PUBH 206 Classification of Diseases
• PUBH 208 Quality of Health Care
• PUBH 221 Contemporary Health Issues
• PUBH 301 Public Health Ethics
• PUBH 312 Planning for Health Education Programs

Study Plan for Health Education Bachelor of Sciences in Public Health

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| Fall | Major Elective 3 | 3 |
| Spring | Free Elective 2 | 3 |
| Spring | Free Elective 3 | 3 |
| Spring | PUBH 499 | Capstone | 3 |
| **Total Credit Hours in Semester** | 15 |
DEPARTMENT OF PHYSICAL THERAPY AND REHABILITATIONS SCIENCES

College of Sciences Building, (Women’s Section)
Phone: (974) 4403-4800
Email: health@qu.edu.qa
Website: http://www.qu.edu.qa/chs/departments/
physical_therapy/index.php

BACHELOR OF SCIENCE IN PHYSICAL THERAPY

Objectives
The mission of the BSc PT program is to improve the health care workforce possessing knowledgeable, service-oriented, self-assured, adaptable, socially sensitive and reflective practitioners by:
1. Providing graduates with learning experience that promotes excellence through interdisciplinary collaboration and innovation in education and service.
2. Engaging in research and scholarly activities that advances physical therapy practice.
3. Graduating qualified physical therapy practitioners who are able to apply critical and integrative thinking and lifelong learning to render independent judgments concerning patient needs that are supported by evidence in an ethically and culturally sensitive manner.

Learning Outcomes
Upon completion of the program, students will be able to:
1. Demonstrate the understanding and applicability of the core Physical therapy knowledge in their professional practice.
2. Deliver the Physical therapy clinical skills in an appropriate safe clinical environment.
3. Critically analyze any given clinical problem utilizing ideas, problems and solutions to the patient and the strategies and deliver the appropriate information, to multi-task and work well under pressure.

Admissions Requirements
Applicants must satisfy QU defined College and Program requirements including the minimum high school percentage requirement and the minimum English and Mathematics competency requirements.

Detailed Undergraduate admission requirements are available at the following link: http://www.qu.edu.qa/sites/en_US/students/admission/undergraduate

Declaring the major
Applicants must satisfy QU defined College and Program requirements for declaring a major including the need to declare the major before completing 36 undergraduate credit hours. In addition, students declaring a major in Physical Therapy must have completed a minimum of 12 CH in General Science with GPA of 2.00 that includes BIOL 101 with a minimum grade of C and completed the Qatar University Foundation Program Requirements.

DEGREE REQUIREMENTS

Major in Physical Therapy and Rehabilitation Sciences: A minimum of 139 credit hours is required to complete the major in Physical Therapy and Rehabilitation Science, including the following:
1. A minimum of 33 credit hours in Core Curriculum requirements
2. A minimum of 10 credit hours in college Requirements
3. A minimum of 78 credit hours in Major Requirements
4. A minimum of 14 credit hours in Major Supporting Requirements
5. 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)
Student must complete 3 CH from courses listed in CCP defined Social/Behavioral Sciences package.

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

Natural Science/Mathematics package (3 CH)
Student must complete 3 CH from course listed in the CCP defined Natural Science/Mathematics package.

Supplemental College / Program Core Requirements
Package (3 CH)
• UNIV 100 First Year Seminar

General Knowledge package or General Skills package (3 CH)
Student must complete 3 CH from courses listed either in the CCP defined General Knowledge package or in the CCP defined General Skills package.

College Requirements (10 CH)
Students must complete 10 CH from courses listed below
• BIOL 101 Biology I
• CHEM 101 Chemistry I
• CHEM 103 Exp. General Chemistry
• MATH 101 Calculus

Major Requirements (78 CH)
Students must complete a minimum of 78 credit hours in Major required courses
• PTRS 121 Foundation of Physical Therapy Practice
• PTRS 124 Biomechanics and Kinesiology I
• PTRS 212 Human Anatomy for Physiotherapists
• PTRS 213 Biomechanics and Kinesiology II
• PTRS 214 Neuroscience
• PTRS 225 Physiotherapeutic Modalities I
• PTRS 226 Physiotherapeutic Skills I
• PTRS 312 Biomechanics for Physical Therapists
• PTRS 313 Physiotherapeutic Modalities II
• PTRS 314 Musculoskeletal Physical therapy I
• PTRS 315 Cardiorespiratory Physical therapy I
• PTRS 316 Pharmacology for Physical Therapists
• PTRS 320 Evidence Based Practice
• PTRS 326 Musculoskeletal Physical therapy II
• PTRS 327 Cardiorespiratory Physical therapy II
• PTRS 328 Neurological Physical therapy I
• PTRS 329 Physical therapy in Women Health Conditions
• PTRS 411 Neurological Physical therapy II
• PTRS 412 Physical therapy in Sports
• PTRS 413 Physical therapy in Pediatrics
• PTRS 414 Community Physical Therapy
• PTRS 415 Advanced Professional Practice & Preventive Health Care
• PTRS 416 Physical Therapy in Geriatrics
• PTRS 450 Clinical Placement I
• PTRS 460 Clinical Placement II
• PTRS 470 Research and Project

Major Supporting Requirements (14 CH)
Student must complete a minimum of 14 CH in Major Supporting Requirements.
• PHYS 110 General Physics for Biology
• BIOM 211 Human Anatomy
• BIOM 215 Human physiology
• BIOM 243 Introduction to Pathology
• PUBH 151 Biostatics for Health

Major Electives (4 CH)
Students must complete a minimum of 4 credit hours in Major Elective courses
• PTRS 421 Health Psychology
• PTRS 422 Ergonomics & Occupational Health
• PTRS 423 Prosthetics and orthotics
• PTRS 424 Introduction to Clinical Radiology
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<td>Spring</td>
<td>BIOM 211 Human Anatomy</td>
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SECOND YEAR (37 credit hours)

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<td>BIOM215 Human Physiology</td>
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<td>BIOM 243 Introduction to Pathology</td>
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THIRD YEAR (36 credit hours)

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<td>Spring</td>
<td>PTRS 329 Physical Therapy in Women Health Conditions</td>
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FOURTH YEAR (30 credit hours)

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<td>PTRS 412 Physical Therapy in Sports</td>
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<tr>
<td>Fall</td>
<td>PTRS 413 Physical Therapy in Pediatrics</td>
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<td>Fall</td>
<td>PTRS 414 Community Physical Therapy</td>
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<tr>
<td>Fall</td>
<td>PTRS 415 Advanced Professional Practice &amp; Preventive Health Care</td>
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<td>Fall</td>
<td>PTRS 416 Physical Therapy in Geriatrics</td>
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<td>Spring</td>
<td>PTRS 320 Evidence Based Practice</td>
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<td>Spring</td>
<td>PTRS 421</td>
<td>Physical Therapy Electives: (Any One)</td>
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<td>Spring</td>
<td>PTRS 422</td>
<td>1. Health Psychology</td>
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<td>Spring</td>
<td>PTRS 423</td>
<td>2. Ergonomics &amp; Occupational Health</td>
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<td>PTRS 424</td>
<td>3. Prosthetics and orthotics</td>
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<tr>
<td>Spring</td>
<td>PTRS 425</td>
<td>4. Introduction to Clinical Radiology</td>
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<td>Spring</td>
<td>PTRS 470</td>
<td>Research and Project</td>
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<td>Spring</td>
<td>PTRS 460</td>
<td>Clinical Placement II</td>
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<td>Total Credit Hours in Semester</td>
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ABOUT THE COLLEGE

The College of Education was the first higher education institution in the State of Qatar and the founding unit of Qatar University. It remains the single entity for the preparation of educators in the country. The college embraces its unique position of honor, as well as the exceptional responsibility this entails. The vision of the college reflects awareness of this role by asserting that: The College of Education will be a leading institution in the preparation of education professionals through outstanding teaching, scholarship, and leadership in order to shape the future of Qatar.

Its mission states:
The College of Education is committed to providing excellence in the initial and advanced preparation of education professionals by establishing a foundation in which life-long learning, teaching, research, and community partnerships are fostered. The college fulfills its commitment by providing:

• Its members an educational, motivational, and supportive environment for both learning and teaching in a climate which blends and balances modernity and the preservation of Arabic and Islamic identity.
• Society with highly qualified education professionals and on-going professional development, by supporting scholarly activities, and by sharing the responsibility of the modernization of the country through effective partnerships.

DEGREE OFFERINGS

The College of Education offers the following undergraduate degree programs:

• Bachelor of Education in Primary Education with four concentrations:
  1. Arabic Studies (Arabic Language, Islamic Studies and Social Studies)
  2. Math and Science
  3. English/ESL
  4. Early Childhood

• Bachelor of Education in Secondary Education in Education with eight concentrations:
  1. Islamic studies
  2. Arabic Language
  3. Social Studies
  4. English- ESL
  5. Mathematics
  6. Chemistry
  7. Physics
  8. Biology

• Bachelor of Education in Special Education with three concentrations:
  1. Early Childhood Special Education Services
  2. School-Based Special Education
  3. Severe/Profound Disabilities

DEPARTMENT OF EDUCATIONAL SCIENCES AND PSYCHOLOGICAL SCIENCES

DEPARTMENT OF EDUCATIONAL SCIENCES

Education Sciences Department, Room 108
Phone: (974) 4403-5108-5169
Email: ESD@qu.edu.qa
Website: http://www.qu.edu.qa/education/educational_sciences_department/

Head
Saed Ahmad Deeb Sabah

Program Coordinators
Areej Barham - Bachelor of Education in Primary Education coordinator
Reem Khalid - Bachelor of Education in Secondary Education coordinator

Faculty

Professors:
Hissa Sadiq, Abdalla Al-Mannai, Ghadnana Ali Bin-Ali, Aisha Fakhroo, Michael Romanowski, Du Xiangyum
The Department of Educational Sciences and The Department of Psychological Sciences aim to prepare highly qualified graduates in the field of education, who will have outstanding knowledge of the scientific foundations of their field, and exhibit practical experience and skills in professional roles as well as conduct and evaluate research using scientific methods. The Department 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 an excellent class education.
• Develop teacher-leaders, who will contribute to ongoing progress in teaching, scholarship, and leadership in Qatar.

Learning Outcomes
Graduates from this major will:
• Apply key theories and concepts of the subject matter in educational settings.
• Plan effective instructional strategies to maximize student learning.
• Design instructional plans to maximize student learning.
• Design an effective educational environment.
• Use a variety of assessments to inform teaching.
• Use current and emerging technologies in instructionally powerful ways.
• Foster successful learning experiences for all students by addressing individual differences.
• Arrive at data-informed decisions by systematically examining a variety of factors and resources.
• Actively engage in scholarship in education.
• Apply professional ethics in all educational contexts.
• Lead positive change in education.

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.

Admissions Requirements
Applicants must satisfy QF defined College and Program requirements including the minimum high school percentage requirement.
Detailed Undergraduate admission requirements are available at the following link: http://www.qu.edu.qa/sites/en_US/students/admission/undergraduate

Declaring the major
Students must satisfy QF requirements for declaring a major including the need to declare the major before completing 36 undergraduate credit hours.

DEGREE REQUIREMENTS

B.Ed in Primary Education
A minimum of 120 credit hours are required to complete the major in Primary Education, including the following:
• A minimum of 33 credit hours in core curriculum requirements.
• A minimum of 36 credit hours of major requirements.
• A minimum of 6 credit hours of major free electives.
• A minimum of 45 credit hours of concentration requirements.

Core Curriculum Requirements (33 CH)

Common package (15 CH)
Satisfying this package requirements depends on the concentration area selected by students. In addition to the three courses listed below, students selecting the Concentration Area in Early Childhood, Arabic Studies, or Math and Science must complete the English I Sub-package. Students selecting the English/ESL concentration area must complete the English II Sub-package.
• ARAB 100 Arabic Language I
• ARAB 200 Arabic Language II
• DAWA 111 Islamic Culture

English I Sub-package (6 CH)
• ENGL 110 English I
• ENGL 111 English II

English II Sub-package (6 CH)
• ENGL 150 Essay Writing I
• ENGL 151 Advanced Reading Comprehension

Social/Behavioral Sciences package (3 CH)
Courses in the CCP defined Social/Behavioral Sciences 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 part of the Humanities/Fine Arts package.

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

General Knowledge package (3 CH)
Only students selecting the English/ESL concentration area 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 Early Childhood, Arabic Studies, or Math and Science must complete this package requirements by completing 9 CH from the courses listed below. Students selecting the English/ESL concentration area must complete the ENG 101 course and satisfy the requirements of the General Knowledge and the General Skills packages.
• ENGL 250 English for Communication I
• ENGL 251 English for Communication II
• UNIV 100 First Year Seminar

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 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
• EDUC 319 Classroom Assessment

Training Course Requirements (9CH)
Students must complete a minimum of 9 credit hours by
Major Free Electives (6 CH)

Students must take a minimum of 6 credit hours from the list of courses listed below:

- EDUC 300 Education and Societal Problems
- EDUC 201 Research Methodology
- EPSY 201 Introduction to Psychology
- EPSY 203 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 the concentration requirements:

- EDPR 410 Play and the Theory of Movement
- EDPR 411 Health and Safety of Young Children
- EDPR 412 Community Outreach and Resources
- EDPR 413 Integrated Math and Science for Young Children
- EDPR 422 Teaching Reading and Writing to Young Children
- EDPR 453 Teaching Primary Level Algebra
- EDPR 446 Teaching Primary Level Arabic
- EDPR 447 Teaching Primary Level Islamic Studies
- EDPR 448 Teaching Primary Level Social Studies
- HIST 222 The Gulf in Modern Period
- HIST 213 Modern Arab History (1516-1919)
- GEOG 110 General Geography
- ARAB 110 Intro to Language and Literature
- ARAB 218 Morphology
- ARAB 213 Grammar I
- ARAB 319 Grammar II
- ARAB 375 Phonology
- ISLA 103 Quranic Exegesis
- ISLA 105 Analytical Hadith
- DAWA 113 Philosophy of Sirah
- ISLA 106 Jurisprudence of Worship

Concentration in Math and Science (45 CH)

Students must complete a minimum of 45 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)

- EDPR 453 Teaching Primary Level English (ESL I)
- EDPR 454 Teaching Primary Level Arabic (ESL II)
- EDPR 455 Teaching Primary Level Reading
- EDPR 410 Reading and Writing in all Disciplines
- BIOL 100 Introduction to Life Science
- ENGL 153 Essay Writing II
- ENGL 155 Introduction to Language
- ENGL 156 Introduction to Literature I
- ARAB 213 Grammar I
- DAWA 113 Philosophy of Sirah

Concentration in Arabic Studies (45 CH)

Students must complete a minimum of 45 credit hours by completing the following courses in concentration requirements:

- EDPR 446 Teaching Primary Level Arabic
- EDPR 447 Teaching Primary Level Islamic Studies
- EDPR 448 Teaching Primary Level Social Studies
- HIST 222 The Gulf in Modern Period
- HIST 213 Modern Arab History (1516-1919)
- GEOG 110 General Geography
- ARAB 110 Intro to Language and Literature
- ARAB 218 Morphology
- ARAB 213 Grammar I
- ARAB 319 Grammar II
- ARAB 375 Phonology
- ISLA 103 Quranic Exegesis
- ISLA 105 Analytical Hadith
- DAWA 113 Philosophy of Sirah
- ISLA 106 Jurisprudence of Worship

1. Study Plan for the Math and Science Bachelor of Education in primary Education

FIRST YEAR (30 credit hours)

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SECOND YEAR (34 credit hours)

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THIRD YEAR (29 credit hours)

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FOURTH YEAR (27 credit hours)

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Total Credit Hours in Semester

- Fall: 15
- Spring: 15

Total: 60 credit hours

Bachelor of Education in primary Education

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### 2. Study Plan for Early Childhood
Bachelor of Education in primary Education

#### SECOND YEAR (34 credit hours)

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<td>ENGL 156</td>
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<td>DAWA 113</td>
<td>Philosophy of Sharia</td>
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### 3. Study Plan for Arabic Studies
Bachelor of Education in primary Education

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<tr>
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</table>

### BACHELOR OF EDUCATION IN SECONDARY EDUCATION

**Objectives**
- Gain the knowledge, skills, and dispositions necessary for secondary school teachers.
- Implement student-centered, standards-based pedagogy at the secondary level.
- Participate in the ongoing progress of teaching and learning.
- Contribute to ongoing educational research in Qatar by teaching and modeling inquiry methodologies and data-informed instruction.

**Learning Outcomes**
- Graduates from this major will:
  - Apply key theories and concepts of the subject matter.
  - Plan effective instruction to maximize student learning.
  - Use current and emerging technologies in instructionally powerful ways.
  - Foster successful learning experiences for all students by addressing individual differences.
  - Arrive at data-informed decisions by systematically examining a variety of factors and resources.
  - Actively engage in scholarship by learning from and contributing to the knowledge base in education.
  - Apply professional ethics in all educational contexts.
  - Lead positive change in education.

**Opportunities**
- Graduates from the Secondary Education major are prepared to seek employment in the educational sector, namely private, as well as government-run secondary 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.

**Admissions Requirements**
Applicants must satisfy QU defined College and Program requirements including the minimum high school percentage requirement. Detailed Undergraduate admission requirements are available at the following link: http://www.qau.edu.qa/sites/en_US/students/admission/undergraduate.

**Declaring the Major**
Students must satisfy QU requirements for declaring the major including the need to declare the major before completing 36 undergraduate credit hours. In addition, applicants for the bachelor in Secondary Education must have passed the courses EDUC 310, and EDUC 312 with a minimum grade of “C” and with a minimum overall GPA of 2.0/4.0. Applicants must complete an interview and meet with their advisor before declaring their major. Admission into the program is competitive due to intake capacity limitations.

### DEGREE REQUIREMENTS FOR B.ED IN SECONDARY EDUCATION

**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 in 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 package (15 CH)**
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.

- **DAWA 111 Islamic Culture**
- **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 200 English Language I Post Foundation**
  - **ENGL 203 English Language II Post Foundation**
- **Language III sub-package (12 CH)**
  - **ARAB 100 Arabic Language I**
  - **ARAB 200 Arabic Language II**
  - **ENGL 200 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 the CCP defined Social/Behavioral Sciences 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 part of the 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:
• GEOG 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 (3 or 9 CH)
Only students selecting a concentration area in Arabic Language, Islamic Studies, or Social Studies must complete this package requirements by completing 9 CH from the courses listed below. Students selecting the English, Mathematics, Biology, Physics, or Chemistry concentration areas must complete the UNIV 100 course and satisfy the requirements of the General Knowledge and the General Skills packages.
• ENGL 250 English for Communication I
• ENGL 251 English for Communication II

UNIV 100 First Year Seminar

Major Core Requirements (36 CH)
Students must complete 30 CH from the courses listed below in addition to completing 6 CH from courses listed in the Methods sub- package related to the concentration area selected by the student.
• EDUC 310 Foundations of Education in Qatar and School Reform
• EDUC 312 Curriculum and Assessment
• EDUC 318 Classroom Management
• EDUC 317 Inclusive Classroom
• EDUC 319 Classroom Assessment
• EDUC 320 Human Development
• EDSE 331 Reading and Writing Across the Curriculum
• EDSE 491 Student Teaching in Secondary Education

Methods for Arabic sub-package (6 CH)
Students selecting the Arabic concentration area must take a minimum of 6 credit hours from the courses listed below:
• EDSE 340 Methods I: Instructional Strategies for Arabic
• EDSE 460 Methods II: Inquiry and ICT for Arabic

Methods for English sub-package (6 CH)
Students selecting the English concentration area must take a minimum of 6 credit hours from the courses listed below:
• EDSE 341 Methods I: Instructional Strategies for English
• EDSE 461 Methods II: Inquiry and ICT for English

Methods for Islamic Studies sub-package (6 CH)
Students selecting the Islamic Studies concentration area must take a minimum of 6 credit hours from the courses listed below:
• EDSE 342 Methods I: Instructional Strategies for Islamic Studies
• EDSE 462 Methods II: Inquiry and ICT for Islamic Studies

Methods for Social Studies sub-package (6 CH)
Students selecting the Social Studies concentration area must take a minimum of 6 credit hours from the courses listed below:
• EDSE 343 Methods I: Instructional Strategies for Social Studies
• EDSE 463 Methods II: Inquiry and ICT for Social Studies

Methods for Mathematics sub-package (6 CH)
Students selecting the Mathematics concentration area must take a minimum of 6 credit hours from the courses listed below:
• EDSE 344 Methods I: Instructional Strategies for Mathematics
• EDSE 464 Methods II: Inquiry and ICT for Mathematics

Methods for Physics sub-package (6 CH)
Students selecting the Physics concentration area must take a minimum of 6 credit hours from the courses listed below:
• EDSE 345 Methods I: Instructional Strategies for Physics
• EDSE 465 Methods II: Inquiry and ICT for Physics

Methods for Chemistry sub-package (6 CH)
Students selecting the Chemistry concentration area must take a minimum of 6 credit hours from the courses listed below:
• EDSE 346 Methods I: Instructional Strategies for Chemistry
• EDSE 466 Methods II: Inquiry and ICT for Chemistry

Methods for Biology sub-package (6 CH)
Students selecting the Biology concentration area must take a minimum of 6 credit hours from the courses listed below:
• EDSE 347 Methods I: Instructional Strategies for Biology
• EDSE 467 Methods II: Inquiry and ICT for Biology

Major Electives (6 CH)
Students must take a minimum of 6 credit hours from the list of courses listed below:
• EDUC 100 Photography
• EDUC 200 Education and Societal Problems
• EDUC 201 Research Methodology
• EDUC 203 Family Relationships
• EPSY 201 Introduction to Psychology
• EPSY 205 Social Psychology

Concentration in Arabic (45 CH)
Students must complete a minimum of 45 credit hours by completing the following courses in concentration requirements:

Arabic Concentration Requirements (45 CH)
• ARAB 213 Grammar I
• ARAB 214 Morphology
• ARAB 221 Classical Arabic Poetry I
• ARAB 224 Classical Arabic Prose
• ARAB 261 Rhetoric
• ARAB 319 Grammar II
• ARAB 321 Classical Arabic Criticism
• ARAB 322 Introduction to Linguistics
• ARAB 354 Semantics
• ARAB 355 Applied Linguistics
• ARAB 391 Modern and Contemporary Arabic Poetry
• ARAB 391 Literary Research; Sources and Methods
• ARAB 412 Readings and Linguistics Tradition
• ARAB 491 Modern Literary Criticism
• ARAB 483 Comparative Literature

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 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 226 History of the English Language
• ENGL 230 Professional Writing
• ENGL 233 Introduction to English Language
• ENGL 305 First Language Acquisition
• ENGL 330 The Short Story
• ENGL 353 Sounds of English
• ENGL 354 Structure of the English Language
• ENGL 460 Post-Colonial Literature

English/ESL Concentration Supplementary Requirements (3CH)
• ENGL 209 Language and Society
• ENGL 213 Language and Culture
• ENGL 234 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 110 General Geography
• GEOG 300 Geography of Arab World
• GEOG 344 Political Geography
• GEOG 441 Geography of Qatar
• HIST 103 An Introduction to History
• HIST 311 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 206 Globalization
• SOCI 120 Introduction to Sociology
• SOCI 201 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
• GEOG 101 Principles of Geology
• MARS 101 Introduction to Marine Science
• PHYS 110 General Physics For Biology
• PHYS 111 Practical Physics For Biology
• CHEM 101 General Chemistry I
• CHEM 103 Experimental General Chemistry I
• CHEM 209 Fundamentals in Organic Chemistry
• CHEM 361 Basic Biochemistry
• CHEM 362 Experimental Biochemistry
• BIOL 102 Biology II
• BIOL 110 Human Biology
• BIOL 212 Genetics
• BIOL 221 Basic Ecology
• BIOL 241 Microbiology
• BIOL 311 Molecular Biology
• BIOL 321 Principles of Environmental Biology

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 General Experimental Chemistry I
• CHEM 104 Experimental General Chemistry II
• BIOL 101 Biology I
• GEOL 101 Principles of Geology
• PHYS 183 Introduction to General Physics
• CHEM 211 Organic Chemistry I
• CHEM 212 Organic Chemistry II
• CHEM 213 Analytical Chemistry I
• CHEM 231 Physical Chemistry I
• CHEM 232 Experimental Analytical Chem
• CHEM 242 Experimental Physical Chemistry I
• CHEM 251 Inorganic Chemistry II
• CHEM 311 Analytical Chemistry II
• CHEM 351 Organic Chemistry
• 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 231 Modern Physics
• PHYS 301 Electromagnetic Theory I
• PHYS 331 Classical Mechanics I
• PHYS 333 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
• 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 324 Complex Analysis
• MATH 335 Number Theory
• MATH 341 Modern Geometry
• MATH 365 Scientific Computation & Programming
• 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
• FIGN 303 Fiqh of Zakat and Awdaf
• 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

FIRST YEAR (33 credit hours)

Term | Course # | Course Title | Credit Hours
--- | --- | --- | ---
Fall | General Core | 3
Fall | EDUC 310 Foundation of Education & School Reform | 3
Fall | General Core | 3
Fall | Concentration Course | 3
Total Credit Hours in Semester | 15

SECOND YEAR (33 credit hours)

Term | Course # | Course Title | Credit Hours
--- | --- | --- | ---
Spring | General Core | 3
Spring | EDUC 312 Curriculum and Assessment | 3
Spring | General Core | 3
Spring | Concentration Course | 3
Spring | Concentration Course | 3
Total Credit Hours in Semester | 18

THIRD YEAR (33 credit hours)

Term | Course # | Course Title | Credit Hours
--- | --- | --- | ---
Fall | General Core | 3
Fall | EDSE 34x Methods I: Instructional Strategies for X | 3
Fall | Elective in Major | 3
Fall | Concentration Course | 3
Fall | Concentration Course | 3
Fall | Concentration Course | 3
Total Credit Hours in Semester | 15

FOURTH YEAR (27 credit hours)

Term | Course # | Course Title | Credit Hours
--- | --- | --- | ---
Spring | General Core | 3
Spring | General Core | 3
Spring | EDSE 46x EDSE 46x Methods II: Inquiry and ICT for X | 3
Spring | Concentration Course | 3
Spring | Concentration Course | 3
Spring | Concentration Course | 3
Total Credit Hours in Semester | 15

Total Credit Hours in Semester | 75

Total Credit Hours in Semester | 90

Total Credit Hours in Semester | 90
**BACHELOR OF EDUCATION IN PHYSICAL EDUCATION**

**Objectives**
- Support the mission of Qatar University to provide experts needed for Qatar's 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.

**Learning Outcomes**
Graduates from this major will:
- Apply knowledge, pedagogy, and planning/preparation related to teaching health and physical education.
- Apply technology skills that relate to health and physical education.
- Plan effective instruction to maximize student learning.
- Apply knowledge about a variety of health and physical education content areas.
- Demonstrate effective communication skills necessary for effective teaching.
- Develop management skills in the classroom (theoretical) and gymnasium (practical).

**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.

**Admissions Requirements**
Applicants must satisfy QU defined College and Program Admission Requirements and College and Program Core Requirements.

**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)**
Student must complete 3 CH from courses listed in CCP defined Social/Behavioral Sciences 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 part of the Humanities/Fine Arts package.

**Natural Science/Mathematics package (3 CH)**
Student must complete 3 CH from courses listed in the CCP defined Natural Science/Mathematics package.

**Supplemental College / Program Core Requirements (9 CH)**
- ENGL 250 English for Communication I
- ENGL 251 English for Communication II
- UNIV 100 First Year Seminar

**Major Requirements (60 CH)**
Students must complete a minimum of 60 credit hours from courses listed in the Qatar and Gulf History Sub-package part of the Humanities/Fine Arts package, Social/Behavioral Sciences package, Natural Science/Mathematics package, and Core Curriculum Total Credit Hours in Semester 17.

**Study Plan for the B.Ed. in Physical Education**

<table>
<thead>
<tr>
<th>Term</th>
<th>Course #</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>FIRST YEAR (33 credit hours)</strong></td>
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<tr>
<td>Fall</td>
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<td></td>
<td>EDUC 310</td>
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<td>First Year Seminar</td>
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<tr>
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<td>EDUC 201</td>
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<td>General Core</td>
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<td>CCP Course</td>
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<td></td>
<td></td>
<td>EDUC 312</td>
<td>Curriculum &amp; Assessment</td>
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<td>EDUC 310</td>
<td>Foundation of Education in Qatar and School Reform</td>
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<td>EDUC 201 Research Methodology</td>
<td>Intro. to PE, PA &amp; Sport Studies</td>
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<td>EDUC 200 Human Anatomy &amp; Basic physiology</td>
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<td>EDUC 230 Motor Learning and Development</td>
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<td>EDUC 240 Principles and Practices of Sport (1)</td>
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<td><strong>SECOND YEAR (34 credit hours)</strong></td>
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<td>EDPE 230</td>
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<td>EDPE 240</td>
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<td>Nut. for Sport, Exercise &amp; Health</td>
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<td>Total Credit Hours in Semester</td>
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### DEPARTMENT OF PSYCHOLOGICAL SCIENCES

### BACHELOR OF EDUCATION IN SPECIAL 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.

#### Learning Outcomes
- Graduates from this major will:
  - Demonstrate understanding of the key theories and concepts of the subject matter.
  - Plan effective instruction to maximize student learning.
  - Foster successful learning experiences for all students by addressing individual differences.
  - Arrive at data-informed decisions by systematically examining a variety of factors and resources.
  - Actively engage in scholarship by learning from and contributing to the knowledge base in education.
  - Apply professional ethics in all educational contexts.
  - Lead positive change in education.

#### Opportunities
- Graduates from the Special Education major are prepared to seek employment in the educational sector, namely private, as well as government- 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.
- Graduates will have excellent prospects of employment in schools and kindergarten, in Special Education Centers, in Educational Institutions and Education-based Media organizations.

#### Admissions Requirements
- Applicants must satisfy QU-defined College and Program requirements including the minimum high school percentage requirement.
- Detailed Undergraduate admission requirements are available at the following link: http://www.qu.edu.qa/sites/en_US/students/admission/undergraduate

#### Declaring the major
- Students must satisfy QU requirements for declaring the major including the need to declare the major to completing 36 undergraduate credit hours. In addition, applicants for the bachelor in Special Education must have passed the courses EDUC 310, EDUC 312, and EDUC 315 with a minimum grade of "C" and with a minimum overall GPA of 2.0. Applicants must complete an interview and meet with their adviser before declaring their major. Admission into the program is competitive and is based on recommendation by the teacher education committee.

#### DEGREE REQUIREMENTS

**B.Ed in Special Education**
- A minimum of 120 credit hours are required to complete the major in Special Education, including the following:
  - A minimum of 33 credit hours in core curriculum requirements.
  - A minimum of 39 credit hours in major requirements;
  - A minimum of 12 credit hours in major electives;
  - A minimum of 36 credit hours in concentration requirements.

**Core Curriculum Requirements (33 CH)**

**Common package (15 CH)**
- ARAB 100 Arabic Language I
- ENGL 111 English I
- ENGL 111 English II
- DAWA 111 Islamic Culture

**Social/Behavioral Sciences package (3 CH)**

**Courses in the CCF defined Social/Behavioral Sciences 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 part of the Humanities/Fine Arts package.

**Natural Science/Mathematics package (3 CH)**

- Courses in the CCF defined Natural Science/Mathematics package.

**Supplemental College / Program Core Requirements package (18 CH)**
- ENGL 250 English for Communication I
- ENGL 251 English for Communication II
- UNIV 100 First Year Seminar

**Major Requirements (39 CH)**
- Students must complete 39 CH from the Major Core Requirements package.
- EDUC 310 Foundations of Education in Qatar and School Reform
- EDUC 312 Curriculum and Assessment
- EDUC 313 Developing Literacy in Children
- EDUC 314 Technology for Children
- EDUC 315 Child Development & Learning
- SPED 301 Foundations of Special Education
- SPED 302 Survey of Exceptionalities
- SPED 303 Behavior Management in Special Education
- SPED 304 Collaboration with Families and Professionals
- SPED 305 Inclusive Practices through Special Education
- SPED 306 Educational Psychology for Special Educators
- SPED 307 Assistive Technology
- SPED 308 Promotion of Mental Health in Children and Youth

#### Major Electives (12 CH)
- Students must take a minimum of 12 credit hours from the list of courses listed below:
  - EDUC 200 Education and Social Problems
  - EDUC 201 Research Methods
  - EDUC 203 Family Relationships
  - EPSY 201 Introduction to Psychology
  - EPSY 205 Social Psychology
  - SOWO 101 Introduction to Social Work
  - SOWO 302 Mental Health and Social Work
  - SOWO 303 School Social Work
  - SOWO 370 Children and Family Practice and Social Work
  - PUBH 101 P H S: Principles and Practices
  - PUBH 202 Health, Behavior and Society
  - PUBH 222 Foundations of Health Education
  - SPED 410 Infants, Toddlers, and Young Children with Disabilities
  - SPED 414 Early Childhood Language and Communication
  - SPED 415 Early Childhood Social and Emotional Development
  - SPED 420 Children and Youth with Disabilities
  - SPED 424 Prevention and Early Intervening in Schools
  - SPED 425 Special Education Support for General Education
  - SPED 426 Interventions for Behavior Problems in School Settings
  - SPED 430 Students with Autism and Intellectual Disabilities
  - SPED 431 Students with Physical, Health, and Sensory Disabilities
  - SPED 435 Applied Behavior Analysis for Instruction
  - SPED 436 Communication for Severe and Profound Disabilities

#### Early Childhood Special Education Services Concentration Requirements (36 CH)
- Students who choose the Early Childhood Special Education Services Concentration Area must complete a minimum of 36 credit hours by completing the following courses in concentration requirements:
Study Plan for the B.Ed. in Special Education

Early Childhood Special Education Services Concentration

**First Year (33 credit hours)**

<table>
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<td>EDUC 101 Health and Safety of Young Children</td>
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<td>EDUC 102 Community Outreach and Resources</td>
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<td>SPED 101 Students with Physical, Health, and Sensory Disabilities</td>
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<td>SPED 102 Assessment Practices for Severe and Profound Disabilities</td>
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<td>SPED 103 Curriculum and Methods for Severe and Profound Disabilities</td>
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<td>SPED 104 Planning and Programming for Severe and Profound Disabilities</td>
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<td>SPED 105 Applied Behavior Analysis for Instruction</td>
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<td>SPED 106 Communication for Severe and Profound Disabilities</td>
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<td>SPED 107 Student Teaching: Severe and Profound Disabilities</td>
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**Second Year (30 credit hours)**

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<td>SPED 301 Foundations of Special Education</td>
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<td>SPED 302 Survey of Exceptionalities</td>
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<td>EDEC 410 Play and Theory of Movement</td>
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**Third Year (33 credit hours)**

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<td>SPED 401 Inclusive Practices through Special Education</td>
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<td>SPED 402 Educational Psychology for Special Educators</td>
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<td>SPED 403 Assistive Technology</td>
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<td>SPED 404 Infants, Toddlers, and Young Children with Disabilities</td>
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<td><strong>Spring</strong></td>
<td>SPED 405 Promotion of Mental Health in Children and Youth</td>
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<td>SPED 406 Assesment in Early Childhood Special Education</td>
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<td>SPED 407 Curriculum and Methods in Early Childhood Special Education</td>
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**Fourth Year (24 credit hours)**

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<tr>
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<td>SPED 413 Planning and Programming in Early Childhood Special Education</td>
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<td>SPED 414 Early Childhood Language and Communication</td>
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<td>SPED 415 Early Childhood Social and Emotional Development</td>
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<td>SPED 416 Early Childhood Motor Learning</td>
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## Study Plan for the B.Ed. in Special Education

### School-Based Special Education Concentration

#### FIRST YEAR (33 credit hours)

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<td>EDUC 310</td>
<td>Foundation of Education &amp; School Reform</td>
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<td>SPED 306</td>
<td>Educational Psychology for Special Educators</td>
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<td>SPED 307</td>
<td>Assistive Technology</td>
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<td>SPED 420</td>
<td>Children and Youth with Disabilities</td>
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<td>Electives</td>
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#### SECOND YEAR (30 credit hours)

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<td>Child Development and Learning</td>
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<td>SPED 301</td>
<td>Foundations of Special Education</td>
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<td>Survey of Exceptionalities</td>
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#### THIRD YEAR (33 credit hours)

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<td>Promotion of Mental Health in Children and Youth</td>
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<td>SPED 421</td>
<td>Assessment for School-Based Special</td>
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<td>SPED 422</td>
<td>Curriculum and Methods for School-Based</td>
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<td>SPED 427</td>
<td>Transition Planning</td>
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#### FOURTH YEAR (24 credit hours)

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<td>SPED 431</td>
<td>Students with Physical, Health, and Sensory</td>
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<td>SPED 305</td>
<td>Inclusive Practices through Special Education</td>
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<td>SPED 306</td>
<td>Educational Psychology for Special Educators</td>
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<td>SPED 307</td>
<td>Assistive Technology</td>
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#### Study Plan for the B.Ed. in Special Education

### Severe and Profound Disabilities Concentration

#### FIRST YEAR (33 credit hours)

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<td>Technology for Children</td>
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<td>Survey of Exceptionalities</td>
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<td>EDUC 312</td>
<td>Curriculum and Assessment</td>
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<td>Child Development and Learning</td>
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<td>Students with Autism and Intellectual</td>
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<td>SPED 303</td>
<td>Behavior Management in Special</td>
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#### THIRD YEAR (29 credit hours)

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#### FOURTH YEAR (24 credit hours)

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<td>Applied Behavior Analysis</td>
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<td>SPED 436</td>
<td>Applied Behavior Analysis</td>
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COLLEGE OF BUSINESS AND ECONOMICS

College of Business and Economics Building (Women’s Section)
Phone: (974) 4403-5000 / 5088
Email: bus-econ@qu.edu.qa
Website: http://www.qu.edu.qa/business

Dean
Khalid Shams M A Al-Abdulqader

Associate Dean for Academic Affairs
Adam Fadlalla

Associate Dean for Research and Graduate Studies
Belaid Aouni

Assistant Dean for Student Affairs
Bakri Soubra

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 and talented 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 Management Information Systems
- 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) 4403-5051
Email: accounting@qu.edu.qa / mis@qu.edu.qa

Head
Professor: Mostafa Kamal Hassan

Faculty
Profeessors:
Khaled Alshare, Adam Fadlalla, Nitham Hindi, Karma Samir Sherif

Associate Professors:
Khaled Al-Khater, Emad Awadallah, Mohammad Elbashir, Habib Ullah Khan, Emad Abu Shanab, Ramzi El-Haddadeh, Hani Kamel

Assistant Professors:

Lecturer:
Inas Ben Salah

Teaching Assistants:
Roula Wadi, Hania Mohsin, Fathia Eleuch, Moler Hanna, Bial Elsalem, Amal Al Amin, Sarra Al Dosari, Fatema Salem Al Yafi

ABOUT THE DEPARTMENT

The Department of Accounting and Information Systems offers a major and minor in both Accounting and Management 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. Information Systems professionals design, develop, and use technology to provide organizations with information to solve business problems.

**BACHELOR OF BUSINESS ADMINISTRATION IN ACCOUNTING**

**Objectives**
1. Provide students with academic and professional knowledge to pursue a career in accounting.
2. Provide students with the essential technical, analytical, and research skills to solve accounting problems.
3. Prepare ethical and culturally aware accountants in a globalized business environment.

**Learning Outcomes**
Graduates of the Bachelor of Business Administration in Accounting are expected to:
1. Demonstrate ability to critically analyze accounting issues and to apply accounting knowledge to solve problems.
3. Utilize information technology in making business decisions.
4. Incorporate the ethical dimensions in business decision-making.
5. Demonstrate understanding of accounting concepts and tools and their application.

**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.

**Admissions Requirements**
Applicants must satisfy QF defined College and Program requirements in addition to the minimum high school percentage requirement.

Detailed Undergraduate admission requirements are available at the following link: http://www.qu.edu.qa/sites/en_US/students/admission/undergraduate

**Declaring the major**
Students must satisfy QF requirements for declaring a major. In addition, students should be in good academic standing, and obtain approval from their academic advisors, head of department, and associate dean for student affairs.

**DEGREE REQUIREMENTS**

**Major in Accounting**
A minimum of 5 credit hours (CH) are required to complete the Bachelor of Business Administration, major in Accounting, including the following:

- A minimum of 15 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 credit hours in major requirements and electives
- A minimum of 5 credit hours in University free elective requirement

**Core Curriculum Program Requirements (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 the CCP defined Social/Behavioral Sciences package.

**Humanities /Fine Arts package (3 CH)**
- Courses listed in the Qatar and Gulf History sub-package

**Natural Science/Mathematics package (3 CH)**
- Math 103 Intermediate Algebra

**Supplemental College/Program core requirements package (9 CH)**
- ENGL 250 English for Communication I
- STAT 220 Business Statistics I
- STAT 221 Business Statistics II
- MATH 221 Business Math I
- MAGT 307 Internship in Business

**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
- MAKT 101 Principles of Marketing
- MIST 201 Introduction to MIS
- FINA 201 Principles of Finance
- MAGT 101 Principles of Management
- MAGT 304 Production & Operations Management
- MAGT 307 Internship in Business
- MAGT 405 Strategic Management
- MAKT 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:
- ACCT 221 Intermediate Accounting I
- ACCT 222 Intermediate Accounting II
- ACCT 331 Cost & Management Accounting
- ACCT 333 Auditing I
- ACCT 421 Accounting Information Systems

**Major Requirements (15 CH)**
Students must complete the following list of courses:
- ACCT 221 Intermediate Accounting I
- ACCT 222 Intermediate Accounting II
- ACCT 331 Cost & Management Accounting
- ACCT 333 Auditing I
- ACCT 421 Accounting Information Systems

**Major Electives (9 CH)**
Students must complete a minimum of 9 credit hours in courses selected from the following list:
- ACCT 411 Governmental Accounting
- ACCT 413 Auditing I
- ACCT 418 Advanced Accounting
- ACCT 419 Internal Audit I
- ACCT 424 International Accounting
- ACCT 428 Financial Statement Analysis

**Minor or No Minor Requirements (15 CH)**
Students with a major in Accounting may choose a minor in Management Information Systems, in Finance, 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

**Study Plan for Accounting Major**
Bachelor of Business Administration in Accounting

**FIRST YEAR (30 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>ENGL110</td>
<td>English I</td>
<td>3</td>
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<tr>
<td></td>
<td>ARAB100</td>
<td>Arabic Language</td>
<td>3</td>
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<tr>
<td></td>
<td>XXXXNNN</td>
<td>Humanities/Fine Arts Package</td>
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<tr>
<td></td>
<td>ENGL111</td>
<td>English II</td>
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<tr>
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<td>XXXXNNN</td>
<td>Social/Behavioral Sciences Package</td>
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<td></td>
<td>DAWA111</td>
<td>Islamic Culture</td>
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<td>Total Credit Hours in Semester</td>
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<tr>
<td>Spring</td>
<td>ENGL111</td>
<td>English II</td>
<td>3</td>
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<tr>
<td></td>
<td>ARAB200</td>
<td>Arabic Language II</td>
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<td></td>
<td>MATH103</td>
<td>Intermediate Algebra</td>
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<td></td>
<td>MAGT101</td>
<td>Principles of Management</td>
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<tr>
<td></td>
<td>Total Credit Hours in Semester</td>
<td>15</td>
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</tr>
</tbody>
</table>
SECOND YEAR (36 credit hours)

Term | Course # | Course Title | Credit Hours
Fall | ENGL250 | English for Communication | 3
| STAT220 | Business Stat I | 3
| MATH110 | Business Math I | 3
| ECON111 | Microeconomics | 3
| MGMT161 | Principles of Marketing | 3
| ACCT110 | Financial Accounting | 3
Total Credit Hours in Semester 18
Spring | FINA201 | Principles of Finance | 3
| STAT222 | Business Stat II | 3
| ACCT116 | Managerial Accounting | 3
| ECON112 | Macroeconomics | 3
| MATH221 | Business Math II | 3
| ENGL255 | English for Business Communication | 3
Total Credit Hours in Semester 18

THIRD YEAR (30 credit hours)

Term | Course # | Course Title | Credit Hours
Fall | ACCT221 | Intermediate Accounting I | 3
| ACCT331 | Cost & Management Acc- ounting | 3
| MAGT304 | Production & Operations Management | 3
| XXXXNNN | Course from Min or Free College Elective | 3
| MIST201 | Introduction to MIS | 3
Total Credit Hours in Semester 15
Spring | ACCT222 | Intermediate Accounting II | 3
| ACCT333 | Auditing I | 3
| XXXXNNN | Course from Min or Free College Elective | 3
| LAW215 | Business Law | 3
| MAGT307 | Internship in Business (Summer Only) | 3
Total Credit Hours in Semester 15

FOURTH YEAR (29 credit hours)

Term | Course # | Course Title | Credit Hours
Fall | ACCT33W | Accounting Elective | 3
| XXXXNNN | University Free Elective | 2
| ACCT421 | Accounting Information Systems | 3
| ACCT3NN | Accounting Elective | 3
| XXXXNNN | Course from Minor or Free College Elective | 3
Total Credit Hours in Semester 14
Spring | XXXXNNN | University Free Elective | 3
| ACCT3NN | Accounting Elective | 3
| XXXXNNN | Course from Minor or Free College Elective | 3
| MAGT405 | Strategic Management | 3
Total Credit Hours in Semester 15

BACHELOR OF BUSINESS ADMINISTRATION IN MANGEMENT INFORMATION SYSTEMS

Objectives
The Management Information Systems major aims to prepare students for careers in leadership and responsibility in contemporary organizations. More specifically, the major focuses on the following objectives:
• Provide students with knowledge and competencies related to information systems
• Provide students with the essential technical, analytical, and research skills to solve business problems
• Prepare ethical information systems professionals in a globalized business environment

Learning Outcomes
Graduates of the Bachelor of Business Administration in Management Information Systems are expected to:
• Demonstrate ability to critically analyze, design, and implement information systems
• Define, manage, and use data to make business decisions
• Strategic impact of information systems resources to support decision-making
• Incorporate the ethical dimensions in business decision making
• Apply global perspective in making decisions related to information systems

Opportunities
Graduates of the Bachelor of Business Administration in Management Information Systems may have career in a variety of organizations. Graduates in Management Information Systems may have career in a variety of businesses. Significant employers are accounting firms, banks, insurance companies, service companies, private businesses, governmental agencies, and energy and oil companies, just to cite a few. A management information systems graduate will have the chance to pursue a career as a systems analyst, database administrator, software or web developer, network administrator, a consultant, or many other positions.

Admissions Requirements
Applicants must satisfy QU defined College and Program requirements including the minimum high school requirements and electives.

Core Curriculum Program Requirements (33 credit hours)
• A minimum of 33 credit hours in university core curriculum 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
• A minimum of 15 credit hours in minor or no minor requirements and electives
• A minimum of 5 credit hours in University free elective requirement

Humanities/Fine Arts package (3 CH)
• ARAB 100 Arabic Language I
• ARAB 200 Arabic Language II
• ENGL 202 English Post-Foundation I
• ENGL 203 English Post-Foundation II
• DAWA 111 Islamic Culture

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

Supplemental College/Program core requirements package (3 CH)
• UNIV 100 First Year Seminar

Declaring the major
Students must satisfy QU requirements for declaring a major. In addition, students should be in good academic standing and should obtain approval from their academic advisors, head of department, and associate dean for student affairs.

DEGREE REQUIREMENTS

Major in Management Information Systems
A minimum of 125 credit hours are required to complete the Bachelor of Business Administration, major in Management Information Systems, 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 credit hours in major requirements
• A minimum of 9 credit hours in major electives
• A minimum of 15 credit hours in minor or no minor requirements and electives
• A minimum of 5 credit hours in University free elective requirement

Natural Science/Mathematics package (3 CH)
• Math 103 Intermediate Algebra

General Skills package (3 CH)
Students must complete all 3 CH from courses listed in the CCP defined General Skills package.
Study Plan for Management Information Systems

Bachelor of Business Administration in Management Information Systems

**FIRST YEAR (30 credit hours)**

<table>
<thead>
<tr>
<th>Term</th>
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<th>Course Title</th>
<th>Credit Hours</th>
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<td>ENGL110</td>
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<td>ARAB100</td>
<td>Arabic Language I</td>
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<td>MATH103</td>
<td>Intermediate Algebra</td>
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<td></td>
<td>XXXXNNN</td>
<td>Humanities/Fine Arts</td>
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<td>XXXXNNN</td>
<td>Social/Behavioral Sciences</td>
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<td>Total Credit Hours in Semester: 15</td>
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<td>Spring</td>
<td>ENGL111</td>
<td>English II</td>
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<td></td>
<td>MATH119</td>
<td>Business Math I</td>
<td>3</td>
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<td></td>
<td>ARAB200</td>
<td>Arabic Language II</td>
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<td>DAWA111</td>
<td>Islamic Culture</td>
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<td>MAGT101</td>
<td>Principles of Management</td>
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**SECOND YEAR (30 credit hours)**

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<td>ENGL250</td>
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<td>STAT220</td>
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<td>Business Math II</td>
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<tr>
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<td>ECON111</td>
<td>Principles of Microecono-</td>
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<tr>
<td></td>
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<td>nomics</td>
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<tr>
<td></td>
<td>ACCT110</td>
<td>Financial Accounting</td>
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<td>Spring</td>
<td>FINA201</td>
<td>Principles of Finance</td>
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<td>MIST 201</td>
<td>Introduction to MIS</td>
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<tr>
<td></td>
<td>ACCT116</td>
<td>Managerial Accounting</td>
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<td>Macroeconomics</td>
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<td>MATH221</td>
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**THIRD YEAR (32 credit hours)**

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<tr>
<td>Fall</td>
<td>ENGL252</td>
<td>English for Business</td>
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<td>MIST310</td>
<td>Systems Analysis and Design</td>
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<td>MIST320</td>
<td>Data and Information</td>
<td>3</td>
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<td></td>
<td>MAGT304</td>
<td>Production and Operations</td>
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<td></td>
<td>XXXXNNN</td>
<td>Course from Minor</td>
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<tr>
<td>Spring</td>
<td>STAT222</td>
<td>Business Statistics II</td>
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<tr>
<td></td>
<td>MIST330</td>
<td>IT Infrastructure and</td>
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<td></td>
<td></td>
<td>Enterprise Architecture</td>
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<td></td>
<td>MAGT360</td>
<td>IS Strategy, Management,</td>
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<tr>
<td></td>
<td></td>
<td>and Acquisition</td>
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<tr>
<td></td>
<td>XXXXNNN</td>
<td>Course from Minor</td>
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**FOURTH YEAR (33 credit hours)**

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<th>Term</th>
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<tr>
<td>Fall</td>
<td>XXXXNNN</td>
<td>Qatar and Gulf History</td>
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<td>MAGT 405</td>
<td>Strategic Management</td>
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<td>MIST 460</td>
<td>Information Systems</td>
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<td>MAGT 307</td>
<td>Internship</td>
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<td>MAGTNNN</td>
<td>MIST Elective</td>
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<td>XXXXNNN</td>
<td>Course from Minor</td>
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<td>Spring</td>
<td>LAWC 215</td>
<td>Business Law</td>
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<td>MIST Elective</td>
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<td>MIST Elective</td>
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<td>XXXXNNN</td>
<td>Course from Minor</td>
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<td>University Free Elective</td>
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<td>Total Credit Hours in Semester: 15</td>
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</table>
DEPARTMENT OF FINANCE AND ECONOMICS

College of Business and Economics Building
Room C122 (Women’s Section)
Phone: (974) 4403-5080 / 56480
Email: fi-econ@qu.edu.qa
Website: http://www.qu.edu.qa/business/finance/index.php

Head
Mohamed Gaeid

Faculty

Professors:
Ritab Al-Khouri, Saif Al-Sowaidi, Nadal Al-Fayoumi, Idris Al-Jarrah.

Associate Professors:

Assistant Professors:
Hisham M. Abreda, Houcem Smouci, Mohamed Abdelaziz Eliss, Mohammed El-Gammal, Alnoud Al Maadeed, Al-Jarrah.

ABOUT THE DEPARTMENT

The Department of Finance and Economics is oriented toward addressing Qatar’s need for intellectuals and practitioners to serve the sustainable growth of its economy. Given the uniqueness of Qatar and the opportunities afforded by its resources, the mission of the Department is to provide and maintain a well-trained and qualified workforce that will serve Qatar and the Gulf Region. The Department provides courses in Economics and Finance and to offer rigorous programs focusing on related theory to practice, and addressing issues related to business, economic development and natural resource management.

BACHELOR OF BUSINESS ADMINISTRATION IN ECONOMICS

Objectives
The Economics major aims to prepare students for positions of leadership and responsibility in contemporary organizations. More specifically, the major focuses on the following objectives:

• Ensuring a rigorous, meaningful and effective education in Economics with courses and contents relevant to current practices and country requirements.
• Developing students’ analytical and critical thinking abilities to analyze economic issues.
• Providing students with an awareness of economic concepts and institutions to develop their ability in economic decision-making.

Learning Outcomes
Upon the successful completion of a Bachelor of Business and Economics majoring in Finance, a student will be able to:
• Demonstrate effective written communication skills.
• Demonstrate effective oral communication skills.
• Utilize information technology in making business decisions.
• Recognize and resolve ethical issues in business decisions.
• Work effectively in teams.
• Evaluate global perspectives in Economics.

Opportunities
The Economics major prepares undergraduate students for careers in business and to pursue graduate studies. Graduates in Economics 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.

Admissions Requirements
Applicants must satisfy QU defined College and Program requirements including the minimum high school percentage requirements. Detailed Undergraduate admission requirements are available at the following link: http://www.qu.edu.qa/sites/en_US/students/admission/undergraduate.

Declaring the major
Students must satisfy QU requirements for declaring a major. In addition, students should be in good academic standing and obtain approval from their academic advisors, head of department, and associate dean for student affairs.

DEGREE REQUIREMENTS

Major in Economics
Minimum of 125 credit hours are required to complete the Bachelor of Business Administration, major in Economics, including the following:
• A minimum of 33 credit hours in university core curriculum requirement.
• A minimum of 42 credit hours in core college 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.
• A minimum of 15 credit hours in minor or no minor requirements and electives.
• A minimum of 5 credit hours in University free elective requirement.

Core Curriculum Program Requirements (33 credit hours)
Common package (15 CH)
• ARAB 100 Arabic Language I
• ARAB 200 Arabic Language II
• ENGL 116 English I
• ENGL 111 English II
• DAWA 111 Islamic Culture

Social/Behavioral Sciences package (3 CH)
Courses in the CCP defined Social/Behavioral Sciences 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 part of the Humanities/Fine Arts package.

Diving into Mathematics package (3 CH)
• Math 103 Intermediate Algebra

Supplemental College / Program core requirements package (9 CH)
• ENGL 250 English for Communication I
• ENGL 252 English for Business Communication
• UNIV 100 First-Year Seminar

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
• MKT 101 Principles of Marketing
• MIST 201 Introduction to MIS
• FINA 201 Principles of Finance
• MAGT 101 Principles of Management
• MAGT 304 Production & Operations Management
• MAGT 307 Internship in Business
• MAGT 405 Strategic Management
• MATH 211 Business Math I
• 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.
**Study Plan for Economics**

**Bachelor of Business Administration in Economics**

**FIRST YEAR (30 credit hours)**

<table>
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<tr>
<th>Term</th>
<th>Course #</th>
<th>Course Title</th>
<th>Credit Hours</th>
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<tr>
<td>Fall</td>
<td>ENGL110</td>
<td>English I</td>
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<td>ARAB100</td>
<td>Arabic Language</td>
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<td></td>
<td>XXXXNNN</td>
<td>Humanities/Fine Arts Package</td>
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<td></td>
<td>XXXXNNN</td>
<td>Social/Behavioral Sciences Package</td>
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<tr>
<td></td>
<td>DAWA111</td>
<td>Islamic Culture</td>
<td>DAWA111</td>
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<td>Total Credit Hours in Semester</td>
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<td>Spring</td>
<td>ENGL110</td>
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<td>ARAB200</td>
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<td>MATH103</td>
<td>Intermediate Algebra</td>
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<td>MAGT101</td>
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**SECOND YEAR (36 credit hours)**

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<th>Term</th>
<th>Course #</th>
<th>Course Title</th>
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<td>STAT220</td>
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**THIRD YEAR (30 credit hours)**

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<td>Production and Operations Mgmt</td>
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<td>ECON 211</td>
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<td>ECON 212</td>
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<td>ECON 301</td>
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**FOURTH YEAR (29 credit hours)**

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<tr>
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<td>XXXXNNN</td>
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<td>Total Credit Hours in Semester</td>
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**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)**

- 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 462 Industrial Economics
- ECON 464 Economics of Energy
- ECON 472 Managerial Economics
- ECON 475 Contemporary Topics in Economics

**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:
  - Ensuring a rigorous, thorough, meaningful and effective education in Finance
  - Developing students’ analytical and critical thinking abilities to analyze issues related to finance and investments
  - Providing students with an awareness of financial theories and institutions to develop their ability in making rational financial decisions

**Learning Outcomes**

Upon the successful completion of a Bachelor of Business and Economics majoring in Finance, a student will be able to:

- Recognize and resolve ethical issues in business decisions
- Utilize appropriate information and communication technologies in dealing with financial situations
- Show understanding of global issues in business situations
- Apply appropriate problem-solving methodologies to the analysis and solution of financial problems

**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.

**Admissions Requirements**

Applicants must satisfy QU defined College and Program requirements including the minimum high school percentage requirement. Detailed Undergraduate admission requirements are available at the following link: [http://www.qu.edu.qa/sites/en_US/students/admission/undergraduate](http://www.qu.edu.qa/sites/en_US/students/admission/undergraduate)

Declaring the major

Students must satisfy QU requirements for declaring a major. In addition, students should be in good academic standing and obtain approval from their academic advisors, head of department, and associate dean for student affairs.
### 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.
  - A minimum of 6 hours in college supporting requirement.
  - A minimum of 15 credit hours in major requirements
  - A minimum of 9 credit hours in major electives
  - A minimum of 15 credit hours in minor or no minor requirements and electives.
  - A minimum of 5 credit hours in University free elective requirement.

**Core Curriculum Program Requirements (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 the CCP defined Social/Behavioral Sciences packages.

**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 part of the Humanities/Fine Arts packages.

**Natural Science/Mathematics package (3CH)**
- Math 103 Intermediate Algebra

**Supplemental College/Program core requirements package (9 CH)**
- ENGL 250 English for Communication I
- ENGL 252 English for Business Communication
- UNIV 100 First Year Seminar

**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 201 Introduction of MIS
  - FINA 201 Principles of Finance
  - MAGT 101 Principles of Management
  - MAGT 304 Production & Operations Management
  - MAGT 307 Internship in Business
  - MAGT 405 Strategic Management
  - MATH 211 Business Math I
  - 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
  - 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 Accounting, 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

**Study Plan for Finance**

**Bachelor of Business Administration in Finance**

### FIRST YEAR (30 credit hours)

<table>
<thead>
<tr>
<th>Term</th>
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<th>Course Title</th>
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<td>Social/Behavioral Sciences Package</td>
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**Total Credit Hours in Semester**: 15

### SECOND YEAR (36 credit hours)

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<td>ACCT110</td>
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**Total Credit Hours in Semester**: 15

### THIRD YEAR (30 credit hours)

<table>
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<th>Course Title</th>
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**Total Credit Hours in Semester**: 15

### FOURTH YEAR (29 credit hours)

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<td>FINA303</td>
<td>Financial Markets &amp; Institutions</td>
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**Total Credit Hours in Semester**: 14

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<td>MAGT405</td>
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**Total Credit Hours in Semester**: 15
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 requirements:
• FINA 301 Corporate Finance
• FINA 302 Investment
• FINA 301 Corporate Finance

Students seeking a minor in Finance must complete 3 CH from the following courses:
• FINA 401 Portfolio Management
• FINA 402 Investment
• FINA 403 Corporate Finance

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 404 Management Risk Management
• FINA 404 Islamic Banking & Finance
• FINA 405 Financial Derivatives
• FINA 406 Management of Financial Intermediaries

DEPARTMENT OF MANAGEMENT AND MARKETING
College of Business and Economics Building Room C129
Phone: (974) 4403-5030 / 5034 / 7779
Email: manmark@qu.edu.qa

Head
Bader Abdullah Al-Esmenal

Faculty
Professors:
• Kamel Hedhli, Abdulla H Fetais, Omar Ababneh.
• Becheur, Y asir Y asin, Tamer Elsharnouby, Nabil Ghantous.

Associate Professors:
• Swidi, Hamid Gelaidan, Jaithen Alharbi, Shatha Obeidat.
• Alamro, Abdel Latif Anouze, Abdullah Al Jafari, Imene Bader Al-Esmael.

Assistant Professors:
• Farrag, Osama Al-Kwifi, Yazaan Megdadi.

ABOUT THE DEPARTMENT
The Department of Management and Marketing provides students with a solid, innovative and applied education in management and marketing, to prepare them for leadership and responsibility positions in public and private organizations. Management involves the coordination of resources, both human and non-human, to achieve organizational objectives efficiently. It is essential to build market efficiency and sustainable profitability. Marketing is the area of management responsible for anticipating, managing and satisfying customer needs through product and service development and planning, pricing, advertising, promotion and distribution. Marketing is a driving force in creating successful public and private enterprises.

BACHELOR OF BUSINESS ADMINISTRATION IN MANAGEMENT

Objectives
The Management major aims to prepare students for positions of leadership and responsibility in contemporary organizations. More specifically, the 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 management-related problems and make sound decisions in complex environments.

Learning Outcomes
Graduates of the Bachelor of Business Administration in Management are expected to:
• Demonstrate effective written communication skills.
• Recognize and resolve ethical issues in business decisions.
• Demonstrate an understanding of sustainability dimensions in making managerial decisions.
• Demonstrate ability to critically analyze managerial 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 major in Management 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 government and private organizations, both at the local and international levels. Examples of future career opportunities include human resource managers, management consultants, managing directors, leaders of government and private institutions, and other general management and leadership positions.

Admissions Requirements
Applicants must satisfy QU defined College and Program requirements including the minimum high school percentage requirement. Detailed Undergraduate admission requirements are available at the following link: http://www.qu.edu.qa/sites/en_US/students/admission/undergraduate

Declaring the major
Students must satisfy QU requirements for declaring a major. In addition, students should be in good academic standing and obtain approval from their academic advisors, head of department, and associate dean for student affairs.

DEGREE REQUIREMENTS
Major in Management
Minimum of 125 credit hours are required to complete the Bachelor of Business Administration, major in Management, 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 4 credit hours in college supporting requirement.
• A minimum of 15 credit hours in major requirements.
• A minimum of 9 credit hours in major electives.
• A minimum of 15 credit hours in minor or no minor requirement.
• A minimum of 5 credit hours in University free elective requirement.

Core Curriculum Program Requirements (33 CH)
Common packages (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 the CCP defined Social/Behavioral Sciences package

Humanities/Fine Arts package (3 CH)
Courses in the CSP 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 (9 CH)
• ENGL 250 English for Communication I
• ENGL 252 English for Business Communication
• UNIV 100 First Year Seminar

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
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 401 Quantitative Methods for Decision Making
- MAGT 402 Organization Theory
- MAGT 403 E-Business
- MAGT 404 Project Management

---

### Bachelor of Business Administration in Management

#### Study Plan for Management

**Bachelor of Business Administration in Management**

<table>
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<th>Term</th>
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<th>Course Title</th>
<th>Credit Hours</th>
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<th>Course #</th>
<th>Course Title</th>
<th>Credit Hours</th>
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<tr>
<td>Total Credit Hours in Semester</td>
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<td></td>
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</table>

#### Minor or No Minor Requirements

Students with a major in Management may choose a minor in Accounting, Management Information Systems, in Finance, in Marketing, in Economics, in International Business or the No minor option.

**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

#### University Free Elective Requirements (5 CH)

Students must complete a minimum of 5 credit hours in free university electives.

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<table>
<thead>
<tr>
<th>Term</th>
<th>Course #</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
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<tr>
<td>Fall</td>
<td>ENGL250</td>
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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 practices 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.

Learning Outcomes
Graduates of the Bachelor of Business Administration in Marketing are expected to:

• Demonstrate effective written communication skills.
• Recognize and resolve ethical issues in business decisions.
• Demonstrate effective oral communication skills.
• Demonstrate the ability to critically analyze marketing issues and apply functional area knowledge to solve the problems.
• Show understanding of global issues in business environments.

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.

Admissions Requirements
Applicants must satisfy QU defined College and Program requirements including the minimum high school percentage requirement. Detailed Undergraduate admission requirements are available at the following link: http://www.qu.edu.qa/sites/en_US/students/admission/undergraduate.

Declaring the major
Students must satisfy QU requirements for declaring a major. In addition, students should be in good academic standing and obtain approval from their academic advisors, head of department, and associate dean for student affairs.

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 core college 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.
• A minimum of 15 credit hours in minor or no minor 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 (3 CH)
Courses in the CCP defined Social/Behavioral Sciences 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 part of the Humanities/Fine Arts package.

Natural Science/Mathematics package (3 CH)
• Math 103 Intermediate Algebra

Supplemental College/Program core requirements package (9 CH)
• ENGL 250 English for Communication I
• ENGL 252 English for Business Communication
• UNIV 100 First Year Seminar

College Core Requirements (42 CH)
Students must complete the following list of courses:
• ACC 111 Financial Accounting
• ACCT 116 Managerial Accounting
• ECON 111 Principles of Microeconomics
• ECON 112 Principles of Macroeconomics
• MAKT 101 Principles of Marketing
• MIST 201 Introduction to MIS
• FINA 201 Principles of Finance
• MAKT101 Principles of Management
• MAKT 304 Production & Operations Management
• MAKT 307 Internship in Business
• MAKT 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:
• MAKT 301 Consumer Behavior
• MAKT 302 Marketing Management
• MAKT 303 International Marketing
• MAKT 304 Strategic Marketing
• MAKT 401 Marketing Research

Major Electives (9 CH)
Students must complete a minimum of 9 credit hours in courses selected from the following list:
• MAKT 402 Sales Management
• MAKT 403 E-Marketing
• MAKT 404 Service Marketing
• MAKT 405 Promotion Management
• MAKT 406 Business-to Business Marketing

Minor or No Minor Requirements (15 CH)
Students with a major in Marketing may choose a minor in Management Information Systems, in Finance, in Economics, in Management, in Accounting, 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

Study Plan for Marketing
Bachelor of Business Administration in Marketing

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## 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 (12 CH)

- Students seeking a minor in Marketing must complete the following courses:
  - MKT 301 Consumer Behavior
  - MKT 302 Marketing Management
  - MKT 303 International Marketing
  - MKT 401 Marketing Research

### Marketing Minor Electives (3 CH)

- Students seeking a minor in Marketing must complete 3 CH from the following courses:
  - MKT 304 Strategic Marketing
  - MKT 402 Sales Management
  - MKT 403 E-Marketing
  - MKT 404 Services Marketing
  - MKT 405 Promotion Management
  - MKT 406 Business-to-Business Marketing

## MINOR INTERNATIONAL BUSINESS

The Minor in International Business is offered for students from the College of Business and Economics (CBE).

### Minor in International Business (IB) (15 CH)

- Students must complete the minor core requirements and a minimum of 3 CH in the minor electives.
- Students who have already completed one or more courses in the minor core requirements as part of their major must take additional courses from the minor electives to complete the minor 15 CH requirement.

### International Business Minor Core Requirements (12 CH)

- Students seeking a minor in International Business must complete the following courses. Students who have already completed one or more of the courses listed below as part of their major must take additional courses from the minor electives to complete the minor 15 CH requirements.
  - MKT 303 International Marketing
  - FINA 304 International Finance
  - MAGT 306 International Business
  - 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 305 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).

### Minor in Entrepreneurship (15 CH)

- The Minor in Entrepreneurship 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 Entrepreneurship Core Requirements (12 CH)

- Students must complete a minimum of 12 credit hours in Minor required courses:
  - MAGT 303 Entrepreneurship and Small Business Management
  - MAGT 304 Business Planning for Entrepreneurs
  - FINA 410 Financing for Entrepreneurial Ventures
  - MAGT 305 Comparative Management

### Entrepreneurship Minor Electives (3 CH)

- Students seeking a minor in Entrepreneurship must complete 3 CH in the following courses:
  - AACT 331 Cost & management Accounting
  - MAGT 302 Human Recourses Management
  - MAGT 401 Marketing Research

## MINOR IN BUSINESS FOR NON-BUSINESS STUDENTS

This minor is available to all Qatar University students except College of Business and Economics students.

### Declaring the minor

- Applicants for the minor in Business for Non-Business Students must satisfy QU requirements for declaring a minor.

### Minor in Business for Non-Business Students (24 CH)

- Students must complete the minor core requirements.
- Students who have already completed one or more courses in the minor core requirements as part of their major must take additional courses to complete the minor 24 CH requirement.
COLLEGE OF ENGINEERING
College of Engineering Research and Graduate Studies
Building- B09, Room 117
Phone: (974) 4403-4100 / 4104
Email: dean-eng@qu.edu.qa
Website: http://www.qu.edu.qa/engineering/index.php
Dean
Khalfia Nasser Al-Khalifa
Associate Dean for Academic Affairs
Abdelmagid Salem Hammuda
Associate Dean for Research and Graduate Studies
Abbes Amira
Assistant Dean for Student Affairs
Aljazzi Hamad Fetais

ABOUT THE COLLEGE
The College of Engineering, established in 1980, serves the State of Qatar by preparing graduates in a wide range of engineering disciplines, as well as in computing and architecture. The College aims to be recognized in the region for its outstanding education, research and community engagement, and for the quality of its socially responsible graduates. The main mission of the college is to prepare globally competent and socially responsible graduates, who can compete in an international working environment while taking into consideration our Islamic and Arabic heritage, as well as the local societal needs. Graduates of the college have significantly contributed to the huge industrial expansion that the State of Qatar has witnessed. They are currently playing a key role in the transformation of the economy of Qatar to a knowledge-based economy. All the engineering programs in the College are accredited by the Engineering Accreditation Commission of ABET (http://www.abet.org). The Computer Science program is accredited by the Computing Accreditation Commission of ABET. The Architecture program is in the process of gaining Substantial Equivalency administered by the US based National Architectural Accrediting Board (NAAB).

DEGREE OFFERINGS
The College of Engineering offers the following undergraduate degree programs:
• Bachelor of Architecture
• Bachelor of Science in Chemical Engineering
• Bachelor of Science in Civil Engineering
• Bachelor of Science in Computer Engineering
• Bachelor of Science in Computer Science
• Bachelor of Science in Electrical Engineering
• Bachelor of Science in Industrial and Systems Engineering
• Bachelor of Science in Mechanical Engineering

DEPARTMENT OF ARCHITECTURE AND URBAN PLANNING
College of Engineering Building,
Room C07-219 (Women's Section)
Phone: (974) 4403-3440 / 4434
Email: architecture-urban@qu.edu.qa
Website: http://www.qu.edu.qa/engineering/architecture
Head
Fodil Fadli
Faculty
Professors:
Kasper Oosterhuis
Associate Professors:
Hatem Ibrahim
Assistant Professors:
Djamal Boussa, Lizmol Mathew, Djamal Ouahh, Fodil Fadli, Anna Grichting Solder, M. Salim Ferwati, Shaibu Bala Garba, Raffaello Furlan, Rashid Saeed Al-Matwi, Mark David Major, Madhavi Indraganti, Ahmad Mohammad Ahmad

ABOUT THE DEPARTMENT
The Department of Architecture and Urban Planning (AUP) offers undergraduate and graduate programs committed to graduating professionals capable of creating and managing sustainable built environments. These include: Bachelor of Architecture (B.Arch.) a five-year undergraduate professional degree, a two-year Master of Urban Planning and Design (MUPD) and a Ph.D. with focus in Architecture/Urban Planning.

The B.Arch program attempts to strike a balance between knowledge content and delivery, while implementing studio-based, hands-on, active, and outcome-based learning approaches. 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.
Opportunities

Program Educational Objectives
The objectives of the program are to integrate knowledge-based and skill-based pedagogies in a balanced manner needed to graduate responsive professional architects. The three main objectives are:
1. Knowledge: Striking a balance between the different types of knowledge an architect needs. The objective of the program in this context is to graduate architects who can play multiple roles within Qatar society and can compete with their counterparts, while positioning themselves distinctively in a competitive global market.
2. Culture & Society: Striving to graduate architects who are able and efficiently deal with the realities of the Qatari local context exemplified by its culture and society and the regional context of the building industry.
3. Information Technology: Striving to graduate architects who are well versed in developing design ideas, and in materialization those ideas into practical design and building solutions while utilizing up-to-date information technology in design.

Student 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 and Equity: Ability to recognize the dialectic relationship between people and the built environment in the GCC/Arab region.
• Technology: Ability to utilize cutting edge building technology in design.
• Communication ACAD: 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.

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; by the US based National Architectural Accrediting Board (NAAB). 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.

Admissions Requirements
Applicants must satisfy QF defined College and Program requirements including the minimum high school percentage requirement, the Architecture Program Admission Test (APT) which includes a personal interview.

Detailed Undergraduate admission requirements are available at the following link: http://www.qf.edu.qa/sites/en_US/Students/admission/undergraduate

Declaring the major
Students must satisfy QF requirements for declaring a major before completing 36 undergraduate credit hours.

Additional Requirements
In addition to the requirement of completing a program of 160 credit hours, which includes the senior graduation design project, students must go through compulsory practical training in the GCC/Arab region. Students must complete a minimum of 12 weeks (2 x 6) of architectural training in design consulting firms, construction companies, architectural engineering consultancies, or relevant government agencies.

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 Core Requirements.
• A minimum of 6 credit hours in College Electives.
• A minimum of 3 credit hours in Major Supporting Electives.
• A minimum of 50 credit hours in Graphic Communication and Architectural Design Studios.
• A minimum of 15 credit hours in History and Theory.
• A minimum of 18 credit hours in Building Construction, Services, and Technology.

• A minimum of 16 credit hours in Civil Engineering and Related Studies.
• A minimum of 12 CH in Major Electives.
• A Compulsory non-credited summer practical training (12 weeks over 2 intensive summer training 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.

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 110 Calculus
• PHYS 192 General Physics for Engineering Laboratory I
• PHYS 191 General Physics for Engineering I

College Electives (6CH)
Students must complete a minimum of 6 credit hours in courses selected from the following list:
• GENG 106 Computer Programming
• GENG 107 Engineering Skills and Ethics
• GENG 360 Engineering Economics
• IENG 330 Operations Research
• MECH 485 Engineering Management

Major Supporting Electives (3 CH) Students must complete a minimum of 3 credit hours in courses selected from the following list:
• SCI 263 Badawi society
• SCI 467 Globalization

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 110 Graphic Communication I
• ARCT 111 Graphic Communication II
• ARCT 120 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 311 Architectural Design Studio III
• ARCT 311 Architectural Design Studio IV
• ARCT 312 Architectural Design Studio V
• ARCT 312 Architectural Design Studio VI
• ARCT 510 Comprehensive Design Studio
• ARCT 511 Senior Project Preparation and Programming
• ARCT 512 Senior Project

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 I
• ARCT 330 Materials and Methods of Building Construction II
• 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 241 Theory of Structures I
• ARCT 242 Surveying for Architects
• ARCT 340 Structures and Architectural Form I (Concrete Structures)
• ARCT 341: Structures and Architectural Form II (Steel Structures)
and Shell Structures
• ARCT 590 Construction and Project Management

E) Practical Training Courses - Mandatory (0 CH)
• ARCT 400 Practical Training I
• ARCT 500 Practical Training II

F) Major Electives (12 CH)
Students must complete a minimum of 12 credit hours in elective courses selected from the following list:
• ARCT 100 Independent Study
• ARCT 350 Arts in Architecture
• ARCT 351 Creativity and Innovation

Study Plan:
Bachelor of Architecture

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<td>History and Theory of Architecture II (Islamic Civilizations)</td>
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<td>Design Methods and Theories</td>
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<td>Environmental Control Systems I (Acoustics and Lighting)</td>
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<td>ARCT 511</td>
<td>Senior Project Preparation and Programing</td>
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<td>ARCT 531</td>
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DEPARTMENT OF CIVIL AND ARCHITECTURAL ENGINEERING

College of Engineering - Corridor H, Room H 111 (Men's Section)
Phone: (974) 4403-4170/4173
Email: civil@qu.edu.qa
Website: http://www.qu.edu.qa/engineering/civil

Head
Mohammed Hussein

Faculty

Professors:
Hisham Eid (Civil Engineering Graduate Program Coordinator), Ramsey Taher, Usama Ebead (Civil Engineering Undergraduate Program Coordinator), Murat Gunduz

Associate Professors:
Mohamed Al-Ansari, Riyadh Al-Raoush, Mohammed Hisham Eid (Civil Engineering Graduate Program Coordinator), Murat Gunduz

Assistant Professors:
Omar Al-Ansari, Hassan Al-Derham, Nasser Al-Nuaimi, Khalid Salah Shaaban, and Mohammed Elshafie

BACHELOR OF SCIENCE IN CIVIL ENGINEERING

Program Educational Objectives

The expected accomplishments of graduates of the Bachelor of Science in the Civil Engineering Program at Qatar University are as follows.

• Graduates will establish successful civil engineering careers in industrial, governmental, and private sectors, that contribute to the development of the country, the region, and beyond.
• Graduates will contribute effectively to the civil engineering profession and to society by mastering communication skills, using ethical practices, and pursuing lifelong learning.
• Graduates will provide public and private sectors with professional and innovative solutions to civil engineering and interdisciplinary problems.
• Qualified graduates will be prepared to pursue advanced studies if they so desire.

Student Outcomes

The Department of Civil and Architectural Engineering will have:
(a) an ability to apply knowledge of mathematics, science, and engineering
(b) an ability to design and conduct experiments, as well as to analyze and interpret data
(c) an ability to design a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability
(d) an ability to function on multidisciplinary teams
(e) an ability to identify, formulate, and solve engineering problems
(f) an understanding of professional and ethical responsibility
(g) an ability to communicate effectively
(h) the broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context
(i) a recognition of the need for, and an ability to engage in, lifelong learning
(j) a knowledge of contemporary issues
(k) 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 backbones. Civil engineers play an important role in building infrastructure, and therefore have an important share in this development. By offering the sole Civil Engineering Program in Qatar, the department has a leading role in all activities in the unprecedented infrastructure development taking place in Qatar, through providing high-quality graduates and consultation services.

Admissions Requirements

Applicants must satisfy QF defined College and Program requirements including the minimum high school percentage requirement.

Detailed Undergraduate admission requirements are available at the following link: http://www.qu.edu.qa/sites/en_US/students/admission/undergraduate

Declaring the major

Students must satisfy QF requirements for declaring a major including the need to declare the major before completing 36 undergraduate credit hours.

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 major technical 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)
• APAB 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 the 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
• PHYS 191 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
• MATH 102 Calculus II

Professional and Technical Electives (12 CH)

Students must complete a minimum of 12 credit hours in elective courses selected from the following list:
• CHEM 101 General Chemistry I
• CHEM 103 Experimental General Chemistry I
• PHYS 191 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
• 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 300 Design of Reinforced Concrete Members
• CVEN 321 Analysis of Indeterminate Structures
• CVEN 330 Foundation Engineering I
• CVEN 350 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 Matrix Analysis
• CVEN 430 Foundation Engineering II
• CVEN 431 Selected Topics in Geotechnical Engineering
• CVEN 442 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 elective courses selected from the following list:
• BIOL 101 Biology I
• BIOL 102 Principles of General Geography
• MARS 101 Introduction to Marine Science
**FIRST YEAR (32 Credit Hours)**

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<td>MATH 101</td>
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<td>CHEM 103</td>
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<td>GENG 107</td>
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<td>PHYS 191</td>
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<td>DAWA111</td>
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**SECOND YEAR (36 Credit Hours)**

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<td>PHYS 193</td>
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<td>PHYS 194</td>
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<td>GENG 200</td>
<td>Probability and Statistics for Engineers</td>
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<td>CVEN 210</td>
<td>Properties and Testing of Materials</td>
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<td>CVEN 214</td>
<td>Strength of Materials</td>
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<td>CVEN 250</td>
<td>Geotechnical Engineering</td>
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<td>CVEN 220</td>
<td>Analysis of Structures</td>
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<td>CVEN 212</td>
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**THIRD YEAR (39 Credit hours)**

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<td>GENG 300</td>
<td>Numerical Methods</td>
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<td>CVEN 321</td>
<td>Analysis of Indeterminate Structures</td>
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<td>CVEN 330</td>
<td>Foundation Engineering I</td>
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<td>CVEN 270</td>
<td>Surveying for Construction</td>
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<td>CVEN 340</td>
<td>Analysis and Design of Hydraulic Systems</td>
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<td>Highway Engineering</td>
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**FOURTH YEAR (24 Credit hours)**

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<tr>
<td>Spring</td>
<td>CVEN 381</td>
<td>Contracts, Specifications, and Local Regulations</td>
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<td>CVEN 402</td>
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*Student must complete a minimum of 3 credit hours from the Social/Behavioral Sciences Package and a minimum of 3 credit hours from the Humanities/Fine Arts Package.
DEPARTMENT OF CHEMICAL ENGINEERING

College of Engineering - Corridor G, Room G118 (Men's Section)
Phone: (974) 4403-4130 / 4134
Email: chem@qu.edu.qa
Website: http://www.qu.edu.qa/engineering/chemical/

Head
Majeda Khraisheh

Faculty

Professors:
Ramzan Kahraman, Ibrahim Abu-Reesh, Shaheen Al-Muataseb, Hazim Oblojaw, Majeda Khraisheh

Associate Professors:
Fares Abdellawly Al-Affamani, Mohamed Al-Mari, Fadwa ElAjiak, and Mohammad Aman Ullah

Assistant Professors:
Mohammad Abdul-Karrim, Rahul Bhosale, Essa Ismail Al-Mushe, Ujjal Kumar Ghosh, Saad Ali Al-Sobhi

ABOUT THE DEPARTMENT

The Department of Chemical Engineering at Qatar University has 17 highly qualified faculty members and 7 teaching assistants. The Department enjoys a remarkable working relationship with local industry, which supports the chemical engineering program in several ways, including professorial chair positions, student internships, guest lectures, industrially-based graduation projects, and professorial chair design award contest. The Department of Chemical Engineering at Qatar University 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 research priorities of the Department of Chemical Engineering are aligned with the national priorities of the state of Qatar in terms of research focus. These priorities are fully compatible with faculty members' expertise and personal development in the areas of water treatment, carbon management, flow assurance and hydrates, natural gas, hydrocarbons processing, renewable energy, desalination, catalysis, membrane systems and materials engineering. The level of funding currently exceeds 300 million US dollars from ONRQF under the NPRQF and UREP schemes, and industry, to sustain its research activities and train undergraduate students in research methods. Undergraduate students enjoy a remarkable support from the research-active faculty members through UREP projects. The Chemical Engineering Program offered by the department is accredited by the Engineering Accreditation Commission of ABET (http://www.abet.org).

Opportunities
Graduates of the Chemical Engineering Program enjoy a wide range of career opportunities in the oil, gas, petrochemical, desalination, power generation, water treatment, environmental regulations, and government sectors. Graduates can also pursue higher studies in Chemical Engineering or related fields.

BACHELOR OF SCIENCE IN CHEMICAL ENGINEERING

Program Educational Objectives

The graduates of the Qatar University Chemical Engineering Program will:
1. Practice chemical engineering skills in chemical engineering related careers including hydrocarbon processing, power and desalination, and government agencies.
2. Take an active role and participate in their continuous professional development including graduate studies when appropriate to their career goals.
3. Maintain ethical and professional standards in their careers.

Student Outcomes

The graduates of the Qatar University Chemical Engineering Program will have:
(a) an ability to apply knowledge of mathematics, science, and engineering
(b) an ability to design and conduct experiments, as well as to analyze and interpret data
(c) an ability to design a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability
(d) an ability to function on multidisciplinary teams
(e) an ability to identify, formulate, and solve engineering problems
(f) an understanding of professional and ethical responsibility
(g) an ability to communicate effectively
(h) the broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context
(i) a recognition of the need for, and an ability to engage in life-long learning
(j) knowledge of contemporary issues
(k) an ability to use the techniques, skills, and modern engineering tools necessary for engineering practice.

Admissions Requirements

Applicants must satisfy QU defined College and Program requirements including the minimum high school percentage requirement. Detailed Undergraduate admission requirements are available at the following link: http://www.qu.edu.qa/sites/en_US/students/admission/undergraduate

Declaring the major

Students must satisfy QU requirements for declaring a major including the need to declare the major before completing 36 undergraduate credit hours.

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 college requirements.
• A minimum of 57 credit hours of major requirements.
• A minimum of 12 credit hours of major electives.

Core Curriculum Requirements (33 CH)

Common package (12 CH)
• ARAB 101 Arabic Language I
• ENGL 201 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 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 102 Experimental General Physics for Engineering I
• PHYS 103 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 210 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 231 Materials Science

Major Requirements (57 CH)

• CHEM 102 General Chemistry II
• CHEM 104 Experimental General Chemistry II
• CHEM 209 Fundamentals in Organic Chemistry
• CHEM 241 Physical Chemistry I
• CHEM 242 Experimental Physical Chemistry I
• CHEM 341 Physical Chemistry II
• CHEM 401 Introduction to Chemical Engineering I
• 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 431 Process Modeling & Simulation
• CHEM 432 Petroleum Refining Process
• CHEM 433 Petroleum Technology
• CHEM 435 Polymer Engineering
• CHEM 445 Desalination
• CHEM 451 Introduction to Gas Engineering
• CHEM 454 Natural Gas Treatment
• CHEM 455 Introduction to Biochemical Engineering
• CHEM 461 Petroleum and Hazards Prevention
• CHEM 462 Pollution Control
• CHEM 464 Wastewater Treatment
• CHEM 466 Special Topics in Chemical Engineering I
• CHEM 467 Special Topics in Chemical Engineering II
• CHEM 470 Fund of Petroleum Engineering
• CHEM 474 Process Equipment Design
• CHEM 477 Process Integration
• CHEM 486 Computer Engineering
• CHEM 488 Undergraduate Research
### 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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#### FOURTH YEAR (28 credit hours)

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<td>CHME 415</td>
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<td>CHME 422</td>
<td>Plant Design II</td>
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<td>CHME 426</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 3 credit hours from Humanities/Fine Arts package.

Free Electives (2 CH)
Students must complete a minimum of 2 credit hours from courses outside the College offering, excluding MATH P100 course.
The program concludes with one year senior design software engineering, database design and development, and spans the entire spectrum of computer science such as algorithms for processing data, the theory of computing, instrumentation, robotics and intelligent system automation. The CE program at Qatar University was first offered in 2002. Graduates of this program are highly demanded in industry, government and academic institutions in Qatar. They have the full ability to work effectively in different sectors and in multidisciplinary areas which include telecommunications, oil and gas, and manufacturing. CE students engage in a broad range of learning and research activities with emphasis on computer architecture and organization, microprocessors, embedded computing, networking, hardware design and interfacing, mobile and wireless communication. This highly demanded educational experience is culminated by a graduation project where teams are formed to design and engineer innovative hardware and software systems using the latest technologies from robotics, distributed systems, circuit design, networking, and embedded systems to tackle real-world problems.


Program Educational Objectives

The objective of the major is to graduate students who shall be able to:

1. Establish successful computer or engineering careers in industry and government that will advance the economic, social, and political welfare of society.
2. Serve industry and government by contributing professionals who have achieved a score of 61 or higher on the TOEFL iBT Test, as well as some experience.
3. Contribute effectively to the computing or engineering profession by fostering effective interaction, ethical practices, and communication skills, while pursuing further education through lifelong learning.
4. Pursue advanced studies if they so desire.

Student Outcomes

(a) an ability to apply knowledge of mathematics, science and engineering
(b) an ability to design and conduct experiments, as well as to analyze and interpret data
(c) an ability to design a system, component, or process to meet desired needs within realistic constraints such as economic, social, political, ethical, health and safety, manufacturability, and sustainability
(d) an ability to function on multidisciplinary teams
(e) an ability to identify, formulate, and solve engineering problems
(f) an understanding of professional and ethical responsibility
(g) an ability to communicate effectively
(h) the broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context
(i) recognition of the need for, and an ability to engage in lifelong learning
(j) a knowledge of contemporary issues
(k) an ability to use the techniques, skills, and modern engineering tools necessary for engineering practice.

Opportunities

Computer engineers research, plan, design, develop, evaluate and integrate computer and communication systems. Examples of potential employers are computer and telecommunication hardware manufacturers, telecommunications providers, information technology consulting companies, government agencies, educational and research institutions, and information technology consulting companies. Sample career titles for Computer Engineering are Computer Engineer, Telecommunications Engineer, Hardware Circuit Designer, Hardware Engineer, Networks Engineer, Systems Engineer, Research Engineer, and Wireless Communication Engineer.

Admissions Requirements

Applicants must satisfy QF defined College and Program requirements including the following:

1. Establish successful computer or engineering careers in industry and government that will advance the economic, social, and political welfare of society.
2. Serve industry and government by contributing professionals who have achieved a score of 61 or higher on the TOEFL iBT Test, as well as some experience.
3. Contribute effectively to the computing or engineering profession by fostering effective interaction, ethical practices, and communication skills, while pursuing further education through lifelong learning.
4. Pursue advanced studies if they so desire.

Major in Computer Engineering

A minimum of 128 credit hours are required to complete the major in Computer Engineering, including the following:

1. A minimum of 33 credit hours in core curriculum requirements.
2. A minimum of 24 credit hours in college requirements.
3. A minimum of 59 credit hours in major requirements.
4. A minimum of 12 credit hours in major electives.

Core Curriculum Requirements (33 CH)

American package (12 CH)

• ABET 101 English Language I
• ENGL 102 English Language II Post Foundation
• ENGL 103 English Language III Post Foundation
• ENGL 104 English Language IV Post Foundation

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.

Humanities / Fine Arts requirements (3 CH)

• MATH 101 Calculus I

Natural Science/Mathematics packages (3 CH)

• MATH 101 Calculus I

Supplemental College / Program core requirements package (12 CH)

• CHEM 101 General Chemistry I
• CHEM 102 General Chemistry II
• CHEM 103 Experimental General Chemistry
• PHYS 191 General Physics for Engineering I
• PHYS 192 General Physics for Engineering II
• PHYS 193 General Physics for Engineering II
• PHYS 194 General Physics for Engineering II

College Requirements (24 CH)

• MATH 102 Calculus II
• MATH 211 Calculus III
• MATH 217 Mathematics for Engineers
• GENG 107 Engineering Skills and Ethics
• GENG 200 Probabilistic Systems for Engineers
• GENG 202 Probability, Statistics, and Engineering
• GENG 300 Numerical Methods
• GENG 360 Engineering Economics
• ELEC 201 Electric Circuits

Major Requirements (59 CH)
• ELEC 231 Fundamentals of Electronics
• CMPS 151 Programming Concepts
• CMPS 205 Discrete Structures for computing
• CMPS 251 Object-Oriented Programming
• CMPE 261 Digital Logic Design
• CMPE 263 Computer Architecture and Organization I
• CMPS 303 Data Structures
• CMPE 305 Data Communication and Computer Networks I
• CMPE 363 Computer Architecture and Organization II
• CMPE 364 Microprocessors based Design
• CMPE 370 Computer Engineering Practicum
• CMPS 405 Operating Systems
• CMPE 437 Data Communication and Computer Networks II
• CMPE 462 Computer Interfacing
• CMPS 476 Digital Signal Processing
• CMPE 498 Design Project I
• CMPE 499 Design Project II

Major Electives (12 CH)
Students must complete a minimum of 12 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 312 Mobile Application Development
• CMPS 385 Computer Security
• CMPE 480 Computer Vision
• CMPE 488 Wireless Networks and Applications

CE Electives Sub-package (9-12 CH)
Students must complete a minimum of 9 to 12 CH from the following courses:
• CMPE 399 Practical Training
• CMPE 470 Modern Computer Organization
• CMPE 471 Selected Topics in Computer Engineering
• CMPE 474 Artificial Neural Networks
• CMPE 481 Modeling and Simulation of Digital Systems
• CMPE 482 Multimedia Networks
• CMPE 483 Introduction to Robotics
• CMPE 485 Fundamentals of Digital Image Processing
• CMPE 487 Hardware Software Co-Design

Study Plan: Bachelor of Science in Computer Engineering

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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 COMPUTER SCIENCE

Program Educational Objectives
The expected accomplishments of graduates of the Bachelor of Science in Computer Science program at Qatar University are:
1. Establish successful computing careers in business, industry, and/or government that will contribute to the economic development of the country, the region, and beyond.
2. Apply analytical, design, and implementation skills to formulate and to innovatively solve computing, business, and interdisciplinary problems.
3. Contribute effectively to society and the computing profession by fostering effective interaction, ethical practices, and communication skills, while pursuing further education through lifelong learning.
4. Pursue advanced studies if they so desire.

Student Outcomes
By the time of graduation, students will be able to demonstrate:
(a) An ability to apply knowledge of computing and mathematics appropriate to the discipline.
(b) An ability to analyze a problem, and identify and define the computing requirements appropriate to its solution.
(c) An ability to design, implement, and evaluate a computer-based system, process, component, or program to meet desired needs.
(d) An ability to function effectively on teams to accomplish a common goal.
(e) An understanding of professional, ethical, legal, security and social issues and responsibilities.
(f) An ability to communicate effectively with a range of audiences.
(g) An ability to analyze the local and global impact of computing on individuals, organizations, and society.
(h) Recognition of the need for, and an ability to engage in, continuing professional development.
(i) An ability to use current techniques, skills, and tools necessary for computing practice.
(j) 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.
(k) 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, Systems Programmer, System Analyst, IT Security Specialist, Network Administrator, Database Administrator, IT Consultant, Multimedia Specialist and Web System Manager.

Admissions Requirements
Applicants must satisfy QU defined College and Program requirements including the minimum high school percentage requirement. 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. Detailed Undergraduate admission requirements are available at the following link: http://www.qf.edu.qa/sites/en_US/students/admission/undergraduate

Declaring the major
Students must satisfy QU requirements for declaring a major including the need to declare the major before completing 36 undergraduate credit hours. In addition, students must have either successfully completed all requirements of the Foundation Program or satisfied the University’s competency requirements.

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 12 credit hours of major electives.
- A minimum of 5 credit hours of additional compulsory courses.

Core Curriculum Requirements (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 Core Curriculum Program defined social package.

Humanities/Fine Arts package (6 CH)
- A minimum of 3 CH in any course listed in the CCP defined Qatar and Gulf History sub-package
- A minimum of 3 CH in any Course in the CCP defined Humanities/Fine Arts package, other than courses in the Qatar and Gulf History sub-package

Natural Science/Mathematics package (3 CH)
Any Course in the CCP defined Natural Science / Mathematics package.

Supplemental College / Program core requirements package (6 CH)
- MATH 101 Calculus I
- MATH 102 Calculus II

College Requirements (21 CH)
- MATH 200 Linear Algebra
- PHYS 191 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 General Chemistry I
- GENG 200 Probability and Statistics for Engineers
- GENG 300 Numerical Methods

Major Requirements (49 CH)
- CMPS 151 Programming Concepts
- CMPS 200 Computer Ethics
- CMPS 205 Discrete Structures for Computing
- CMPS 251 Object-Oriented Programming
- CMPE 263 Computer Architecture and Organization I
- CMPE 303 Data Structures
- CMPS 310 Software Engineering
- CMPS 320 Design and Analysis of Algorithms
- CMPS 350 Web development Fundamentals
- CMPS 351 Fundamentals of Database Systems
- CMPE 355 Data Communication and Computer Networks
- CMPS 405 Operating Systems
- CMPS 485 Computer Security
- CMPS 493 Senior Project I
- CMPS 499 Senior Project II

Major Electives (12 CH)
Students must complete a minimum of 12 credit hours in major elective courses.
- CMPS 312 Mobile Application Development
- CMPS 356 Software Development of Enterprise Applications
- CMPS 360 Data Science Fundamentals
- CMPS 373 Computer Graphics
- CMPS 393 Modeling and Simulation
- CMPS 399 Practical Training
- CMPS 403 Artificial Intelligence
- CMPS 433 Multimedia Systems
- CMPS 434 Game Design and Development
- CMPS 445 Compiler Construction
- CMPS 451 Database Management Systems
- CMPS 453 Data Mining
- CMPS 465 Parallel Computing
- CMPS 466 Information Retrieval
- CMPE 480 Computer Vision
- CMPE 488 Wireless Networks and Applications
- CMPS 497 Special Topics in Computing

Major Supporting Requirements (5 CH)
Students must complete a minimum of 5 credit hours in additional required courses including:
- MAGT 101 Principles of Management
- CMPS 307 Introduction to Project Management and Entrepreneurship
**Study Plan:**  
Bachelor of Science in Computer Science

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**Minor in Computer Science**

The minor in Computer Science is designed to provide students in other fields of study with a solid foundation in the fundamentals of computer science in order to analyze and solve computing problems.

**Minor in Computer Science (24 CH)**
A minimum of 24 credit hours are required to complete the minor in Computer Science, including the following:
- A minimum of 21 credit hours in major requirements.
- A minimum of 3 credit hours of major electives.

**Minor Requirements (21 CH)**
- CMPS 151 Programming Concepts
- CMPS 205 Discrete Structures for Computing
- CMPS 251 Object-Oriented Programming
- CMPS 350 Web development Fundamentals
- CMPS 303 Data Structures
- CMPS 351 Fundamentals of Database Systems

**Minor Electives (3 CH)**
- CMPS 323 Design and Analysis of Algorithms
- CMPS 356 Software Development of Enterprise Applications
- CMPS 373 Computer Graphics
- CMPS 393 Modeling and Simulation
- CMPS 405 Operating Systems
- CMPS 310 Software Engineering
- CMPS 433 Multimedia Systems
- CMPS 445 Compiler Construction
- CMPS 451 Database Management Systems
- CMPS 454 Wireless Networks and Applications
- CMPE 355 Data Communication and Computer Networks I
- CMPS 465 Parallel Computing
- CMPS 485 Computer Security
- CMPS 466 Information Retrieval
- CMPS 497 Special Topics in Computing
**DEPARTMENT OF ELECTRICAL ENGINEERING**

College of Engineering - Corridor F, Room F126 (Men’s Section)

**Head**
Nasser Ahmed Al-Emadi

**Faculty**

**Professors:**
Mohedinne Benanammar, Lazzar Ben-Braham, Adel Gastli, Serkan Kinany and Ridha Hamila.

**Associate Professors:**

**Assistant Professors:**
Mohammed Al-Hitmi, Mohammed Al-Naimi, Hasan Mehrjardi

**Assistant Professors:**
Mohammed Al-Hitmi, Mohammed Al-Naimi, Hasan Mehrjardi

**Mohammed Al-Hitmi, Mohammed Al-Naimi, Hasan Mehrjardi**

**ABOUD 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 strives to balance between theoretical 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 elective courses that covers several electrical engineering areas such as: Signal processing & Communications, Biomedical Engineering, Power Systems & Machines, and Industrial Electronics & Control. All areas are strengthened by project-based learning experience. The success of the program is ensured by the high quality and commitment of a world-class team of academics, and societal context

(a) an ability to apply knowledge of mathematics, science, and engineering
(b) an ability to design and conduct experiments, as well as to analyze and interpret data
(c) an ability to design a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability
(d) an ability to function on multidisciplinary teams
(e) an ability to identify, formulate, and solve engineering problems
(f) an understanding of professional and ethical responsibility
(g) an ability to communicate effectively
(h) the broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context
(i) a recognition of the need for, and an ability to engage in life-long learning
(j) a knowledge of contemporary issues
(k) an ability to use the techniques, skills, and modern engineering tools necessary for engineering practice.

**Opportunities**

Electrical engineers play a vital role in any modern society. In Qatar, the need for highly qualified electrical engineering graduates continues to be stressed by the huge economic growth and social development the country is witnessing through its 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, Khalid B. Al-Jazeera, and QF. 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.

**Admissions Requirements**

Applicants must satisfy the following admission requirements at the following link: http://www.qu.edu.qa/sites/en_US/students/admission/undergraduate

**Declaring the major**

Students must satisfy QU requirements for declaring a major including the need to declare the major before completing 36 undergraduate credit hours.

**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 93 credit hours in core curriculum requirements.
- A minimum of 27 credit hours of college requirements.
- A minimum of 69 credit hours of major requirements.
- A minimum of 12 credit hours of major 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 the CCP defined social package.

**Humanities /Fine Arts packages (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 packages (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 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 211 Calculus III
- MATH 212 Calculus IV
- MATH 213 Linear Algebra
- GENG 106 Computer Programming
- GENG 360 Probability and Statistics for Engineers
- GENG 300 Numerical Methods
- GENG 360 Engineering Economics
- ELEC 201 Electric Circuits

**Major Requirements (59 CH)**

- MATH 285 Mathematics for Electrical Engineering
- ELEC 202 Electric Circuits
- ELEC 203 Electric Circuits II Lab
- ELEC 231 Fundamentals of Electromagnetics
- ELEC 261 Digital Systems Design
- ELEC 262 Digital Systems Design Lab
- ELEC 311 Electromagnetics
- ELEC 312 Electric Machines Lab
- ELEC 321 Power Systems Analysis
- ELEC 325 Power Electronics
- ELEC 341 Communications Engineering
- ELEC 342 Communications Engineering Lab
- ELEC 351 Signals and Systems
- ELEC 352 Control Systems
- ELEC 353 Digital Signal Analysis & Filtering
- ELEC 366 Embedded Systems
- ELEC 367 Embedded Systems Lab
- ELEC 368 Sensors and Instrumentation
- ELEC 399 Practical Training
- ELEC 428 Electrical Engineering Design
- 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 417 Selected Topics in Electrical Machines
- 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
- ELEC 446 Selected Topics in Communication Engineering
- ELEC 448 Digital wireless communication
- ELEC 453 Advanced Control Systems
- ELEC 455 Selected Topics in Signal Processing
- ELEC 469 Computer Networks
- ELEC 471 Selected Topics in Computer Engineering
- ELEC 472 Wireless Networks and Applications
- ELEC 473 Biomedical Instrumentation
- ELEC 475 Smart Grid
- ELEC 480 Selected Topics in Power Electronics
- ELEC 484 Industrial Control
• ELEC 485 Introduction to Robotics
• ELEC 489 RF Communication Electronics
• ELEC 490 Electric Drives
• ELEC 495 Independent Study

Study Plan:
Bachelor of Science in Electrical Engineering

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<td>GENG 107</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 MECHANICAL AND INDUSTRIAL ENGINEERING

College of Engineering – Corridor F, Room F121(Men’s Section)
Phone: (974) 4403-4300
Email: meccheng@qu.edu.qa
Website: http://www.qu.edu.qa/engineering/mechanical/home.php

Head
El-Sadig Mahdi

Faculty

Professors:
Abdul Majid Salem Hamouda, Shaligram Pokharel, El-Sadig Mahdi, Mohamed Hasani, Tarek Y. ElMekkawy, Faris Tarloch, Mohammed Al-Salem

Associate Professors:
Khalifa Al-Khalifa, Mohamed Al-Khawaja, Saud Ghani, Dinesh Seth, Samer Elkry, Sadik Satnii, Ahmed Khasir Sleiti, John-John Cabibbian, Farayi Musharavati, Pilsung Choe, Mohammad Rostush Paurobaly, Mohammad Al-Qaradawi

Assistant Professors:
Adel El Omri, Galal M. Abdella, MD. Anwarul Hassan, Murat Kuicuklar, Jamil Renno

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 composed of an outstanding team of faculty members and supporting staff. Faculty members are actively engaged in both scholarly activities as well as creating a conducive and creative environment suitable for a pleasant student learning and teaching experience. The faculty members are focused on student-centered learning. Frequently, faculty members include students in research projects and interactions with industry. Students get the opportunity to gain first-hand exposure to new world engineering problems which, along with their classroom and laboratory work, prepare them with the skills that make them attractive recruits to many employers after graduation. The Students in the department enjoy participation in many out of class activities like the Shell Eco Marathon competition and Life is Engineering program. The department students also enjoy participating in many international conferences and visits to international universities. Both the Industrial and Systems, and Mechanical Engineering programs are accredited by the Engineering Accreditation Commission of ABET, http://www.abet.org.

BACHELOR OF SCIENCE IN INDUSTRIAL AND SYSTEMS ENGINEERING

Program Educational 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. Develop into well rounded citizens with responsibility towards the society.
4. Advance technically and professionally through continued learning and have the ability to pursue graduate studies.

Student Outcomes

(a) an ability to apply knowledge of mathematics, science, and engineering
(b) an ability to design and conduct experiments, as well as to analyze and interpret data
(c) an ability to design a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability
(d) an ability to function on multidisciplinary teams
(e) an ability to identify, formulate, and solve engineering problems
(f) an understanding of professional and ethical responsibility
(g) an ability to communicate effectively
(h) the broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, social, political, ethical, health and safety context
(i) a recognition of the need for, and an ability to engage in lifelong learning
(j) a knowledge of contemporary issues
(k) an ability to use the techniques, skills, and modern engineering tools necessary for engineering practice.

Opportunities

Industrial Engineers makes system work better, safer, cost-effective and more efficient. With its diversity, industrial engineering is used virtually in all sectors, including manufacturing, distribution, government, and 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 performance of such systems using available resources in the most efficient way without degrading social and physical environments. Unlike other engineering disciplines that focus their attention purely on the technical aspects of a system, the ISE graduates incorporate 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 create and maintain growth. The Department also supports Ph.D. and Master in Engineering Management offered by the College of Engineering. 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 course study plan roadmap in order to be able to fulfill the course requirements on time.

Admissions Requirements

Applicants must satisfy QU defined College and Program requirements including the minimum high school percentage requirement. Detailed Undergraduate admission requirements are available at the following link: http://www.qu.edu.qa/sites/en_US/students/admission/undergraduate

Declaring the major

Students must satisfy QU requirements for declaring a major including the need to declare the major before completing 36 undergraduate credit hours.

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 300 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 the CCP defined social package

Humansities /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 III
• 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 108 Engineering Graphics
• MATH 231 Linear Algebra
• GENG 200 Probability and Statistics for Engineers
• GENG 300 Numerical Methods
• GENG 360 Engineering Economics

Major Requirements (54 CH)
• MECH 210 Statics & Dynamics
• GENG 231 Materials Science
• MECH 223 Solid Mechanics
• MECH 230 Manufacturing Processes
• IENG 210 Work Methods and Measurements
• IENG 293 Operations I
• IENG 310 Facility Planning and Layout
• IENG 320 Statistical Quality Control
• IENG 330 Operations II
• IENG 337 Production Planning and Inventory Control
• IENG 350 Computer 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:
Study Plan:
Bachelor of Science in Industrial and Systems Engineering

Option 1: Students can take 9 CH from the courses listed below:
- IENG 331 Advanced Operations Research
- IENG 411 Maintenance Planning & Control
- 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:
- ECON 452 Industrial Economics
- ECON 472 Managerial Economics
- ACCT 331 Cost and Management Accounting
- ACCT 421 Accounting Information Systems
- MAGT 405 Strategic Management

Free Electives (2 CH)
Students must complete a minimum of 2 credit hours from courses outside the College offering, excluding MATH P100 course.

FIRST YEAR (32 credit hours)

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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.
Program Educational Objectives
Graduates of the major are expected to achieve most of the following objectives:
- Establish a successful career as mechanical engineers in sectors such as Oil and Gas, Petrochemicals, Construction and other Public and Private sectors, as well as demonstrate professional engineering competence by progressing through positions of increasing responsibility.
- Develop into well-rounded engineers with responsibility towards society.
- Advance technically and professionally through continued learning, and have the ability to pursue graduate studies.

Student Outcomes
(a) an ability to apply knowledge of mathematics, science, and engineering
(b) an ability to design and conduct experiments, as well as to analyze and interpret data
(c) an ability to design a system, component, or process, to meet desired needs with realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability
(d) an ability to function on multidisciplinary teams
(e) an ability to identify, formulate, and solve engineering problems
(f) an understanding of professional and ethical responsibility
(g) an ability to communicate effectively
(h) the broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context
(i) a recognition of the need for, and an ability to engage in life-long learning
(j) a knowledge of contemporary issues
(k) an ability to use the techniques, skills, and modern engineering tools necessary for engineering practice.

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. The Department supports the Master in Mechanical Engineering and the PhD Program offered by the College of Engineering, and students are encouraged to set their academic goals high enough to obtain advanced degrees in mechanical engineering.

Admissions Requirements
Applicants must satisfy QU defined College and Program requirements including the minimum high school percentage requirement. Detailed undergraduate admission requirements are available at the following link: http://www.qu.edu.qa/sites/en_US/students/admission/undergraduate

Declaring the major
Students must satisfy QU requirements for declaring a major including the need to declare the major before completing 36 undergraduate credit hours.

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 30 credit hours in core curriculum requirements.
- A minimum of 30 credit hours of college requirements.
- A minimum of 57 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 the CCP defined social package.

Humanities /Fine Arts Package (3 CH)
Students must complete a minimum of 9 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 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 (30 CH)
- MATH 102 Calculus II
- MATH 211 Calculus III
- MATH 217 Mathematics for Engineers
- MECH 106 Computer Programming
- MECH 107 Engineering Skills and Ethics
- GEN 111 Engineering Graphics
- GEN 200 Probability and Statistics for Engineers
- GEN 300 Numerical Methods
- GEN 360 Engineering Economics
- ELECT 201 Electric Circuits

Major Requirements (57 CH)
- MECH 221 Engineering Mechanics I, Statics
- MECH 222 Engineering Mechanics II, Dynamics
- GEN 231 Material Science
- MATH 231 Linear Algebra
- MECH 213 Engineering Measurements
- MECH 223 Solid Mechanics
- MECH 230 Manufacturing Processes
- MECH 241 Thermofluids
- MECH 321 Mechanical Mechanisms
- MECH 322 Mechanical Vibrations
- MECH 323 Mechanical Design I
- MECH 342 Thermodynamics
- MECH 343 Fluid Mechanics
- MECH 344 Heat Transfer
- MECH 361 Control Systems
- MECH 399 Practical Training
- MECH 421 Mechanical Design II
- MECH 441 Energy Systems Laboratory
- MECH 448 Design of Energy Systems
- MECH 480 Senior Project I
- MECH 490 Senior Project II

Major Electives (9 CH)
Students must complete a minimum of 9 credit hours in courses selected from the following list:
- MECH 311 Machining and Forming Processes
- MECH 425 Finite Element Method
- MECH 426 Computer Aided Design
- MECH 427 Mechanics of Composite Materials
- MECH 431 Failure Analysis
- MECH 432 Welding and Casting Technologies
- MECH 433 Modern Machining Techniques
- MECH 435 Corrosion Engineering
- MECH 444 Heat Transfer and Air conditioning
- MECH 443 Heat Transfer Systems
- MECH 445 Fluid Systems
- MECH 446 Turbo Machinery
- MECH 447 Heat Engines
- MECH 463 Mechatronics System Design
- MECH 464 Introduction to Robotics
- MECH 471 Selected Topics I
- MECH 472 Selected Topics II
- MECH 483 Operations Management
- MECH 485 Engineering Management
- MECH 486 Quality Analysis and Control

Free Electives (2 CH)
Students must complete a minimum of 2 credit hours from courses outside the College offering, excluding MATH P100 course.

Study Plan: Bachelor of Science in Mechanical Engineering

FIRST YEAR (32 credit hours)

<table>
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<th>Term</th>
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<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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<td>MATH 101</td>
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<td>GEN 107</td>
<td>Engineering Skills and Ethics</td>
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<td>GEN 106</td>
<td>Computer Programming</td>
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<td>CHEM 101</td>
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Total Credit Hours in Semester 16

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Total Credit Hours in Semester 16

BACHELOR OF SCIENCE IN MECHANICAL ENGINEERING
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<td>PHYS 193</td>
<td>General Physics for Engineering II</td>
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<td>Experimental General Physics for Engineering II</td>
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<td>MECH 221</td>
<td>Engineering Mechanics I: Statics</td>
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<td>Probability and Statistics for Engineers</td>
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<td>MECH 241</td>
<td>Thermo fluids</td>
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<td>MECH 222</td>
<td>Engineering Mechanics II: Dynamics</td>
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<td>MECH 231</td>
<td>Engineering Measurements</td>
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<td>MECH 233</td>
<td>Solid Mechanics</td>
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<td>MATH 231</td>
<td>Linear Algebra</td>
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<td>MECH 322</td>
<td>Mechanical Vibrations</td>
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<td>MECH 342</td>
<td>Thermodynamics</td>
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<td>MECH 343</td>
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<td>Manufacturing Processes</td>
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<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>MECH 441</td>
<td>Energy Systems Laboratory</td>
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<tr>
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<th>Credit Hours</th>
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<tr>
<td>Fall</td>
<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>MECH 480</td>
<td>Senior Project I</td>
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<td>DAWA 111</td>
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<td>Spring</td>
<td>MECH 450</td>
<td>Senior 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.
The College of Law at Qatar University offers an outstanding degree program leading to the Bachelor of Laws. The program is designed to equip students with the legal knowledge and skills necessary to practice law both in Qatar and internationally. The mission of the College of Law is to provide students with a high-quality legal education that emphasizes critical thinking, problem-solving, and ethical decision-making. The curriculum is structured to cover a broad range of legal subjects, including public and private law, international law, and legal ethics. The College of Law also benefits from the legal experience and expertise of its faculty members, who are experts in their respective fields.

The College of Law is committed to preparing its students for successful careers in the legal profession. The program prepares students for the Bar examination and provides them with the skills necessary to practice law. The College of Law also offers opportunities for students to gain practical experience through internships and externships.

The College of Law has been accredited by the British Accreditation Council (BAC) in the UK, and its programs are recognized by the High Council for Evaluation of Research and Higher Education (HCERES) in France. The College of Law is also a member of the Qatar University Research Council (QURC) and participates in various research projects and initiatives.

The College of Law offers a range of undergraduate and graduate programs, including a Bachelor of Laws (LLB) degree program and various research opportunities. The College is committed to fostering a community of scholars and professionals who are dedicated to advancing the field of law and making significant contributions to society.

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The College of Law offers a range of undergraduate and graduate programs, including a Bachelor of Laws (LLB) degree program and various research opportunities. The College is committed to fostering a community of scholars and professionals who are dedicated to advancing the field of law and making significant contributions to society.

The First Learning Outcome: Knowledge
Graduates of the Bachelor of Laws will be able to:
1. Recognize the historical foundations of legal rules and the evolution of the Qatari legal system.
2. Explain the core principles of the Qatari legal system and its substantive and procedural rules.

The Second Learning Outcome: Legal Thinking
Graduates of the Bachelor of Laws will be able to:
1. Identify legal issues raised by a given set of facts, and distinguish between relevant and irrelevant facts.
2. Analyze the provisions of laws, court rulings and the perspectives of scholars in order to identify the applicable legal rule.
3. Apply legal rules to a given set of facts in order to reach (appropriate) conclusions.
4. Assess, weigh and reconcile the provisions of laws, court rulings and the perspectives of scholars, or provide alternative perspectives.

The Third Learning Outcome: Scholarly Research
Graduates of the Bachelor of Laws will be able to:
1. Cofrate legal research materials from both traditional and electronic sources, and organize them according to their importance and relevance.
2. Prepare a coherent and balanced research plan.
3. Assess, weigh and reconcile legal research materials or provide alternative perspectives.
4. Write a comprehensive legal research report (essay) that embodies established linguistic rules, the logical presentation of arguments, and accurately cites sources and references.

The Fourth Learning Outcome: Communication
Graduates of the Bachelor of Laws will be able to:
1. Communicate effectively orally with peers (lawyers) and others (non-lawyers) within the framework of a legal debate by demonstrating careful listening and the ability to respond to legal arguments in a clear and convincing manner that respects alternative views.
2. Communicate effectively in written form through the drafting of various legal documents, specifically contracts, court memoranda and legislation.

The Fifth Learning Outcome: Ethics and
Co-operation

The Sixth Learning Outcome: Self-Management and as a whole, specifically through their commitment to the legal profession in serving the Qatari community life.

1. Recognize the basic ethical rules that govern the legal profession in serving the Qatari community life.
2. Apply ethical rules when making decisions that pertain to ethical issues likely to arise in the course of professional life.

Core Curriculum Program (33 CH)

Common package (15 CH)

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

Social/Behavioral Sciences package (3 CH)

Any Course in the 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)

Any Course in the CCP defined Natural Science/Mathematics package.

Supplemental College/Program core requirements package (9 CH)

- ENGL 250 English for Communication I
- ENGL 253 English for Communication for Law*
- UNIV 100 First Year Seminar

Major Requirements (66 CH)

Students must complete the following courses:
- LAWC 101 Introduction to Law
- LAWC 111 Legal Research and Writing I
- LAWC 214 Effects of Obligations
- LAWC 217 Commercial Law
- LAWC 222 Constitutional Law
- LAWC 223 Legal Research and Writing II
- LAWC 250 Family Law
- LAWC 314 Law of Civil Contracts I
- LAWC 315 Labor Law
- LAWC 316 Law of Procedures in Civil and Commercial Matters II
- LAWC 321 Administrative Law
- LAWC 323 Criminal Law I (General Part)
- LAWC 324 Criminal Law II (Special Part)
- LAWC 329 Commercial Papers and Banking Transactions
- LAWC 339 Public International Law
- LAWC 348 Corporate Law
- LAWC 409 Extemporaneous
- LAWC 411 Real Rights
- LAWC 413 Private International Law
- LAWC 422 Law of Criminal Procedures
- LAWC 450 Law of Procedures in Civil and Commercial Matters II

Major Electives (24 CH)

Students must complete a minimum of 24 credit hours in courses where the language of instruction is either Arabic or English, to be selected from the following:

Elective Law Courses Taught in Arabic:
- LAWC 112 Science of Crimes and Penalties
- LAWC 202 Public Finance and Taxation
- ISLA 201 Principles of Islamic Jurisprudence
- ISLA 330 Judgements and Criminal Appealing Means
- LAWC 360 Maritime Law
- LAWC 351 Administrative Judiciary
- LAWC 362 Anti-Corruption
- LAWC 353 Real and Personal Securities
- LAWC 354 Law of Public Service
- LAWC 355 Economic Crimes Law
- LAWC 414 Law of Civil Contracts II
- LAWC 430 Practical Criminal Investigation
- ENGL 453 Fiqh of Inheritance and Bequest
- LAWC 484 GCC Law
- LAWC 499 Legal Ethics
- LAWC 407 Special Topics I

Elective Law Courses Taught in English:
- LAWC 333 Law of Electronic Commerce
- LAWC 348 Corporate Law
- LAWC 351 Administrative Judiciary
- LAWC 449 Environment Laws and Regulations
- LAWC 450 Legal Ethics
- LAWC 499 Legal Ethics
- LAWC 500 Most Court I
- LAWC 464 International Investment Law
- LAWC 480 Most Court II
- LAWC 488 Special Topics I

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 shareholder companies, banks, insurance and investment firms, oil and gas companies, and many other institutions that may fulfill 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 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.

Admissions Requirements

Applicants must satisfy QU defined College and Program requirements including the minimum high school percentage requirement. Detailed Undergraduate admission requirements are available at the following link: http://www.qu.edu.qa/sites/en_U对学生/admission/undergraduate

Declaring the major

Students must satisfy QU requirements for declaring a major including the need to declare the major before completing 36 undergraduate credit hours.
### THIRD YEAR (30 credit hours)

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<td>LAWC 321</td>
<td>Administrative Law</td>
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<td>LAWC 111</td>
<td>Legal Research &amp; Writing I</td>
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<td>LAWC 309</td>
<td>Commercial Papers &amp; Banking Transaction</td>
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<td>MECH 230</td>
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<td>LAWC 315</td>
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</table>
COLLEGE OF PHARMACY

College of Sciences Building (Women's Section)
Phone: (974) 4403-5550
Email: pharmacy@qu.edu.qa
Website: www.qu.edu.qa/pharmacy

Dean
Mohammad Issam Diab

Associate Dean for Academic Affairs
Kyle Wilby

Associate Dean for Research and Graduate Studies
Feras Alali

Assistant Dean for Student Affairs
Ala El-Awaisi

Director, Doctor of Pharmacy Program
Bridge Javed

Pharmaceutical Science Chair
Fatma Mraiche

Clinical Pharmacy and Practice Section Chair
Magdy El Hajj

Faculty

Professors:
Mohamed Ibrahim, Feras Alali, Hesham Korashy

Associate Professors:
Husam Younes, Ayad Khalil, Abdelati Agouni, Abdelbary El-Hissi, Ahmed Awaisu, Fatma Mraiche, Daoud Al, Badriyeh, Kyle Wilby

Assistant Professors:
Magdy El Hajj, Bridge Javed, Hazem Ewees, Shane Pawluk, Mohammad Diab, Monica Zolezzi, Banan Mukhalalati, Yaw Owusu, Ousama Rachid, Sovend Sankanatham

Clinical lecturers:
Ala El-Awaisi, Ziad Nasr, Daniel Rainkie, Sandi Aliadb

Teaching Assistants:
Reem Al Manai, Hager El-Geed, Farhat Hussein

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 region. 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.

DOEGRING OFFERS

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 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.

Learning Outcomes

The specific goals of the program are:
• Care Provider: Pharmacy graduates use their knowledge, skills and professional judgment to provide pharmaceutical care, 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.

Admissions Requirements

Applicants must satisfy QU-defined College and Programming requirements including the minimum high school percentage requirement.

Detailed Undergraduate admission requirements are available at the following link: http://www.qu.edu.qa/sites/en_US/students/admission/undergraduate

Declaring the major

Students must meet QU requirements for declaring a major including the need to declare the major before completing 36 undergraduate credit hours. In addition, applicants must satisfy program requirements including English proficiency, PCAT, completed Foundation Program requirements, completed prerequisite core curriculum and general science course work (minimum of 53 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 selected applicants will be accepted into the program on the basis of academic and non-academic criteria.

Details can be found on the college website at http://www.qu.edu.qa/pharmacy/academics/undergraduate.admission.

Additional Requirements

Completion of the major in Pharmacy (BSc (Pharm)) requires successful completion of 173 credit-hours of courses as outlined in the study plan. This includes six 4-credit-hour required rotations in select hospital, clinic and community settings.

DEGREE REQUIREMENTS

Major in Pharmacy
A minimum of 17 credit hours is required to complete the major in pharmacy, including the following:
• A minimum of 30 credit hours in Core Curriculum Requirements.
• A minimum of 115 credit hours in Major Requirements.
• A minimum of 17 credit hours in College Core Requirements.
• A minimum of 8 credit hours in Major Electives.

• Bachelor of Science in Pharmacy—BSc (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 practice, 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.
Core Curriculum Program (33 CH)
Common Core 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 the CCP defined social package.

Humanities/Fine Arts package (3 CH)
Students must complete a minimum of 3 Credit Hours from courses listed in the Qatari 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 209 Physical 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 Pharmaceutics I
- PHAR 220 Foundations of Pharmacology & Pharmacotherapeutics I
- PHAR 221 Foundations of Pharmacology & Pharmacotherapeutics II
- PHAR 230 Pharmacy 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 Research, Evaluation and Presentation Skills I (PREP skills I)
- PHAR 306 Pharmacy Research, Evaluation and Presentation Skills II (PREP skills II)
- PHAR 310 Pharmaceutics II
- PHAR 311 Pharmaceutics III
- PHAR 316 Pharmacokinetics I
- PHAR 317 Pharmacokinetics II
- 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 359 Interpretation of Lab Data I
- PHAR 360 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 I
- PHAR 381 Pharmacotherapy II
- PHAR 390 Integrated Case-Based Learning I
- PHAR 391 Integrated Case-Based Learning II
- PHAR 406 Pharmacy Research, Evaluation and Presentation Skills I (PREP skills I)
- PHAR 407 Pharmacy Research, Evaluation and Presentation Skills II (PREP skills II)
- PHAR 410 Pharmaceutics IV
- PHAR 415 Toxicology
- PHAR 420 Pharmacology III
- 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 Pathophysiology I
- PHAR 471 Pathophysiology IV
- PHAR 480 Pharmacotherapy III
- PHAR 481 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 526 Pharmacopeidemiology & pharmacoeconomics
- PHAR 530 Structured Professional Practice Experience III
- PHAR 531 Structured Professional Practice Experience IV
- PHAR 532 Structured Professional Practice Experience V
- PHAR 530 Integrated Case-Based Learning V
- PHAR 531 Integrated Structured Professional Practice Experience VI
- PHAR 535 Pharmacy Management

Major Electives (8 CH)
A minimum of 8 credit hours in elective pharmacy courses:
- PHAR 444 Drugs in Sport
- PHAR 445 Rx Elective I
- PHAR 446 Rx Elective II
- PHAR 545 Rx Elective III

A minimum of 8 credit hours in elective pharmacy courses:
- PHAR 444 Drugs in Sport
- PHAR 445 Rx Elective I
- PHAR 446 Rx Elective II
- PHAR 545 Rx Elective III

Study Plan

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<td>PHAR 316</td>
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## FOURTH YEAR (27 credit hours)

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<td>PHAR 535</td>
<td>Pharmacy Management</td>
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COLLEGE OF SHARIA AND ISLAMIC STUDIES

The content of this college is currently under review by the College Of Sharia And Islamic Studies and will be updated as soon as possible.
ABOUT THE COLLEGE
The College of Medicine is the 8th college at Qatar University. It was established in 2014, following an Emiri Directive and a thorough feasibility study as a joint initiative by Qatar University and Hamad Medical Corporation. It is rooted in the specific needs of the Qatari society, and well-aligned with national strategies and priorities in healthcare education.

DEGREE OFFERINGS
Building on best practice models from Europe and the United States, the College of Medicine offers the following undergraduate 6-year degree program:
• Medical Doctor (MD)

About the Program
The Medical Doctor (MD) program is a 6-year program that offers a competency-based, integrated, team- and problem-based (TBL, PBL) curriculum. The competency-based curriculum is designed to allow horizontal and vertical integration between basic medical sciences and clinical sciences throughout the curriculum. This will ensure early introduction of clinical skills training, while emphasizing relevance and application of biomedical science knowledge to patient care. From year 2 onwards, the MD program will use the European credit transfer system (ECTS) to calculate students’ workload. In addition, students study 33 credit hours of general university education.

Students will develop their skills actively by learning about all major organ systems in an integrated way through patient cases, studying in small groups guided by experienced physicians, and developing clinical and communication skills from the beginning, all while using the most innovative technologies available. At the same time, they will learn to appreciate and navigate the specific context of Qatar’s culture as a physician.

The MD program is structured in three distinct phases: the Transition phase; the Pre-Clerkship phase, and the Clerkship phase. Students enrolled in the MD program are required to maintain a certain level of achievement and to satisfy a number of student progression requirements in order to maintain their enrollment in the program. To successfully complete the program and earn the MD degree, student must satisfy the university and the MD program graduation requirements.

Program Objectives
1. To graduate medical doctors who are competent as professionals, caring as practitioners, and equipped, as life-long learners, with the knowledge, skills and attitudes necessary for practicing medicine in the 21st century at the highest level of ethical values and professional standards.
2. To promote population health with a focus on disease prevention through healthy lifestyle
3. To uphold the practice of medicine in a cost effective and efficient way within the specificities of Qatar’s healthcare delivery system.

Student Learning Outcomes and Competency Domains
Within these domains, specific competencies or student learning outcomes were defined as follows:
A. Patient & Population Care
A-O1. Obtain an accurate holistic medical history that covers all essential aspects of a patient and his/her problem, including issues related to age, gender and socio-economic status.
A-O3. Perform both a complete and a focused organ system specific examination, including a mental status examination.
A-O4. Perform routine technical procedures at a level...
suitable to medical students.

A-O1. Use effective communication skills to elicit and communicate patient-specific information, help with decision making, and to express concerns, help etc.
B-O1. Apply the knowledge about the normal structure and function of the body (as an intact organism) and of each of its systems in understanding the abnormal pathology, symptoms and signs of diseases.
B-O2. Understand the molecular, biochemical, and cellular mechanisms that are important in maintaining the body’s homeostasis.
B-O3. Recognize the various causes (genetic, developmental, metabolic, toxic, microbiologic, autoimmune, neo-plastic, degenerative, and traumatic) of illness/disease and the ways in which they operate on the body (pathogenesis).
B-O4. Knowledge of the altered structure and function (pathology and pathophysiology) of the body and its major organ systems that are seen in various diseases and conditions.
B-O5. Apply the knowledge of the most frequent clinical, laboratory, radiological, and pathologic manifestations of common diseases and the patient’s disease.
B-O6. Understand of the power of the scientific method in establishing the causation of disease and efficacy of traditional and non-traditional therapies.
B-O7. Apply the principles of disease prevention and behavior change appropriate for specific population health problems.
B-O8. Recognize the importance of non-biological determinants of (poor) health and of the economic, psychological, social, and cultural factors that contribute to the development and/or continuation of diseases.
B-O9. Knowledge of the epidemiology of common diseases within a population, and the systematic approaches useful in reducing the incidence and prevalence of those diseases.
C-O1. Determine what data exist relative to a clinical question or formal hypothesis, demonstrating knowledge of data sources and methods in using electronic databases.
C-O2. Execute a plan for data collection and organize data for analysis, demonstrating the ability to properly represent data from a study in a form that is useful and supports computer-based analysis.
C-O3. Plan, analyze, interpret and report findings, demonstrating the ability to select the appropriate computer software tool for analysis of data.
C-O4. Demonstrate knowledge of the information resources and tools available to support self-directed learning. Knowledge includes awareness of these resources, their content, and the information needs that they can address.
C-O5. Retrieve information, demonstrating the ability to refine search strategies to improve relevance and completeness of search results, and to filter, evaluate, and reconcile information, demonstrating the ability to properly search and reference sources, diagnostic expert systems, and related websites.
C-O6. Filter, evaluate, and reconcile information, demonstrating the ability to address discrepancies in the data or sources.
C-O7. Apply the principles of disease prevention and behavior change appropriate for specific population health problems.
C-O8. Recognize the importance of non-biological determinants of (poor) health and of the economic, psychological, social, and cultural factors that contribute to the development and/or continuation of diseases.
C-O9. Knowledge of the epidemiology of common diseases within a population, and the systematic approaches useful in reducing the incidence and prevalence of those diseases.
D-O1. Use effective communication skills to elicit and communicate patient-specific information, help with decision making, and to express concerns, help etc.
D-O2. Use effective writing skills to transmit information, express concerns, help etc.
D-O3. Listen to and respect the view of patients and their supporters.
D-O4. Listen to and respect the view of other members of the medical team.
D-O5. Recognize and respect the varying needs of patients for information and explanation.
D-O6. Encourage patients to discuss the proposed treatment with their supporter.
D-O8. Explain any complications of treatment as they occur and explain the possible solution.
D-O9. Immediately when patients have suffered harm and apologize when appropriate.
D-O10. Work effectively as an individual, in interdisciplinary groups, and as a member of a complex healthcare team, demonstrating knowledge of online resources for legislation, political advocacy and local level setting.
E-O1. Apply the theoretical and practical knowledge of medicine, including the economic, ethical, and legal barriers to its delivery.
E-O2. Compassionate treatment of patients, and respect for their privacy and dignity.
E-O3. Honesty and integrity in all interactions with patients’ families, colleagues, and others with whom physicians interact in their professional lives.
E-O4. An understanding of, and respect for, the roles of other healthcare professionals, and of the need to collaborate with others in cases involving individual patients.
E-O5. An understanding of the threats to medical professionalism posed by the conflicts of interest inherent in various financial and organizational arrangements for the practice of medicine.
E-O6. The capacity to recognize and accept limitations in one's knowledge and skills, and to seek further education and training to continuously improve one’s knowledge and ability.
E-O7. Respect patient (and physician) confidentiality, demonstrating knowledge of the legal, ethical, and medical issues surrounding patient documentation, including confidentiality and data security.
F-O1. Formulate and make decisions for individuals and groups, demonstrating knowledge of cost/benefit issues in healthcare.
F-O2. Knowledge about how local healthcare systems deliver patient care to different kinds of patients.

After successful completion of the study program, students will be awarded a Medical Doctor (MD) degree and be prepared for taking one of the international medical licensing examinations accepted in Qatar. While the licensing examinations are independent from the study plan, the program will prepare graduating students for them including completion of Step 1 of the United States Medical Licensing Exam (USMLE) before graduation.

Work and graduate study opportunities are ample for medical school graduates, both in Qatar and abroad. Some students may wish to go on to complete their specialization or graduate studies abroad in or near the USA. Others will go into residency programs at HMC or one of the many other public or private healthcare providers.

Admissions Requirements

Applicants must satisfy QU defined College and Program requirements including the minimum high school percentage requirement.

Detailed Undergraduate admission requirements are available at the following link: http://www.qu.edu.qa/sites/_en_US/students/admission/undergraduate

Declaring the major

Students must satisfy QU requirements for declaring a major including the need to declare the major before completing 36 undergraduate credit hours. In addition, applicants to the Medical Doctor program should satisfy the following:

- Complete two out of 3 Sciences subject matters in School: Biology, Chemistry or Physics.
- Provide a brief statement (around 350 words) to describe the candidate’s motivation to study medicine.
- Support evidence of previous volunteering experience in the healthcare sector, medical or scientific internships, or community work (recommended).

Progression Requirements

The decision for progression from a year to the following year will be made only at the end of the year. Students are allowed to repeat a year only once.

A grade of ‘CC’ (continuous) will be allocated for a student who fails in any course in semester 1 to allow them to register in semester 2.

Remove the percentage of 70% as an average for the grade for moving from year to year, except for the year 1 to year 2, where the percentage is set at 75%.

Degree Requirements

Medical Doctor

A minimum of 40 Credit Hours and 300 ECTS (European Credit Transfer and Accumulation System), are required
to complete the major in Medical Doctor, including the following:
• A minimum of 33 credit hours in Core Curriculum Program Requirements
• A minimum of 7 credit hours in Medical Program General Requirements
• A minimum of 150 ECTS in Pre-Clerkship Phase Requirements
• A minimum of 150 ECTS in Clerkship Phase Requirements

Core Curriculum Program (33 CH)
Student must complete 33 CH distributed as follows:
- 12 CH from the CCP Common Package
- 3 CH from the CCP Social/Behavioral Sciences package (3CH)
- 3 CH from the CCP Humanities/ Fine Arts package
- 4 CH from the CCP Natural Science/ Mathematics package
- 11 CH from the CCP Supplemental College/ Program Core Requirements package

Common package (12 CH)
Student must complete 12 CH from courses listed below.
ARAB 100 Arabic Language I
ENGL 202 English Post Foundation I
ENGL 203 English Post Foundation II
DAWA 111 Islamic Culture

Social/ Behavioral Sciences package (3 CH)
Student must complete 3 CH from courses listed in CCP defined Social/Behavioral Sciences.

Humanities/ Fine Arts package (3 CH)
Student must complete 3 Credit Hours from courses listed in CCP defined Qatar and Gulf History Sub-package to satisfy the Humanities/ Fine Arts package requirements.

Natural Science/ Mathematics package (4 CH)
Student must complete 4 Credit Hours from courses listed below.
CHEM 101 General Chemistry I
CHEM 103 Exp. General Chemistry I

Supplemental College/ Program Core Requirements package (11 CH)
Student must complete 11 CH from courses listed below.
MEDI 101 Human Structure & Function I
MEDI 103 Human Structure & Function II
PUBH 151 Biostatistics for Health Sciences

Medical Program General Requirements (7 CH)
Student must complete 7 CH from courses listed below.
MEDI 102 Medical Education

BIOM 201 Medical Biochemistry

Pre-Clerkship Phase Requirements (150 ECTS)
Students must complete a minimum of 150 ECTS in Pre-Clerkship Requirements by completing the course requirements of the Pre-Clerkship I Requirements package (57 ECTS), the Pre-Clerkship II Requirements package (57 ECTS), and the Pre-Clerkship III Requirements package (36 ECTS) and the Pre-Clerkship Electives package (6 ECTS) as detailed below.

Pre-Clerkship I Requirements Package (60 ECTS – Year Two)
Students must complete 60 ECTS from courses listed in the Pre-Clerkship I Requirements package as detailed below.
MEDI 201 Introduction to Problem Based Learning
MEDI 202 Genes in community
MEDI 203 Body Defense
MEDI 204 Cardiovascular System
MEDI 205 Blood
MEDI 206 Respiratory System

Pre-Clerkship II Requirements Package (57ECTS – Year Three)
Students must complete 57 ECTS from courses listed in the Pre-Clerkship II Requirements package as detailed below.
MEDI 301 Gastrointestinal System & Nutrition
MEDI 302 Renal System
MEDI 303 Endocrine System
MEDI 304 Reproductive System
MEDI 305 Musculoskeletal System & Neuroscience I

Pre-Clerkship III Requirements Package (30 ECTS - Year Four, 1st Semester)
Students must complete 30 ECTS from courses listed in the Pre-Clerkship III Requirements package as detailed below.
MEDI 401 Neuroscience II & Mental Health I
MEDI 402 Multi-System

Pre-Clerkship Electives (6 ECTS)
Student must complete a minimum of 6 ECTS from courses listed below.
MEDI 207 Medicine and The Arts
MEDI 208 Clinical Elective Course – Pre Clerkship
MEDI 209 Research Elective Course – Pre Clerkship
SOWO 301 Medical Social Work
SOWO 302 Mental Health Social Work
PSYC 201 Fundamental of Psychology
SOQ 121 Introduction to anthropology
SPSC 349 Developmental Psychology
BIOM 301 Laboratory Management, Safety and Quality

Control
PUBH 101 Public Health Sciences: Principles and practice
PUBH 200 International Health and Global Society
PUBH 201 Environmental Health and Disease
PUBH 202 Health, Behavior, and Society
PUBH 208 Quality of Health Care
PUBH 221 Contemporary Health Issues
PUBH 222 Foundations of Health Education

Clerkship Phase Requirements (150 ECTS)
Students must complete a total of 150 ECTS in clerkship requirements by completing the course requirements of the Clerkship I Requirements package (28 ECTS), the Clerkship II Requirements package (56 ECTS), and the Clerkship III Requirements package (60 ECTS) and the Clerkship Electives package (6 ECTS).

Clerkship I Requirements Package (28 ECTS – Year Four, 2nd Semester)
Students must complete 28 ECTS from courses listed in the Clerkship I Requirements Package as detailed below.
MEDI 403 Medicine & Surgery I
MEDI 404 Community Health and Preventive Medicine

Clerkship II Requirements Package (56 ECTS – Year Five)
Students must complete 60 ECTS from courses listed in the Clerkship II Requirements Package as detailed below.
MEDI 501 Surgery II
MEDI 502 Medicine II
MEDI 503 Obstetrics and Gynecology
MEDI 504 Pediatrics

Clerkship III Requirements Package (60 ECTS – Year Six)
Students must complete 60 ECTS from courses listed in the Clerkship III Requirements Package as detailed below.
MEDI 601 Emergency Medicine
MEDI 602 Selected Clinical Clerkships
MEDI 603 Family Medicine
MEDI 604 Mental Health and Psychiatry II

Clerkship Electives (6 ECTS)
Student must complete a minimum of 6 ECTS from Elective courses offered by the program.
MEDI 405 Clinical Elective Course – Pre Clerkship
MEDI 406 Research Elective Course – Pre Clerkship
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<th>Year</th>
<th>Fall</th>
<th>Spring</th>
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<tr>
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<td>Biostatistics for Health Sciences (3 Cr.H.)</td>
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<td>Reproductive System (9 ECTS)</td>
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<td>Renal System (9 ECTS)</td>
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<td>Year 5</td>
<td>Surgery II (14 ECTS)</td>
<td>Obstetrics &amp; Gynecology (14 ECTS)</td>
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<td>Pediatrics (14 ECTS)</td>
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<td>Elective (6 ECTS) in year 4 or in year 5</td>
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<td><strong>Clerkship phase</strong></td>
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<td></td>
<td>Selected clinical clerkships (14 ECTS)</td>
<td>Mental Health and Psychiatry II (14 ECTS)</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:
MATH 103 OR MATH 101 OR Mathematics Placement Test 180 OR ACT 21 OR SAT 500 OR MATH 021 OR MATH F014 OR MATH 004 OR MATH 002 OR MATH 119

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 accounting 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 335

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 by-product systems, and how to split the common cost among different products. The cost construction system, as well as preparing the cost's 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 419  International Audit I  Credit Hours: 3
This course introduces students to the internal audit profession and the internal audit process. Topics included in this course are: The definition of internal auditing and its standards, corporate governance and control issues, fraud risks and auditing techniques, conducting internal audit engagements, and more.
Prerequisite:
ACCT 333

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 changes of the accounting environments, accounting of changing prices, international financial statement analysis, auditing for global operations, taxation, standards, corporate governance, and the International Accounting Standards (IAS).
Prerequisite:
ACCT 116

ACCT 428  Financial 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.
The course aims to provide students with the functional rules of some Arabic grammar sections; addressing the provisions of the nominal sentence, and supplementary substitutes; explaining the provisions of the verbal sentence, acquainting students with the provisions of the subject, object of the predicate; explaining the direct object and its association with the subject in terms of precedence, announcement and/or omission; completing the student's understanding of their syntactic forms; and finally, explaining the sections of semi-objects, such as articles and prepositions, different and exceptional. This is done in an active learning atmosphere, employing various assessment tools (presentations, tests, etc.).

ARAB 223 Classical Arabic Poem II Credit Hours: 3

This course aims to make the student assess the changes that Arabic poem had gone through during the Abbasid era and in the Arabian Maghreb (Northwest African) and Andalusia regions. Therefore, the focus is on the Originators ("Moualledin") poetry, and explaining the contributions they've made to Arabic poetry. Focus is also placed on the successive authentication process by poets of the like of Ibn Jauzi, Ibn Faris, and Al-Marni. The course aims also to make the student aware of Arabic poetry accomplishments by Morocco and Andalusia poets; all this in an active learning atmosphere, employing various assessment tools (poetry readings, research papers, presentations, tests, etc.)

ARAB 224 Classical Arabic Prose Credit Hours: 3

The purpose of this course is to make the student make a re-consider all knowledge they acquired on prose in the Arab culture, in the light of the theory of genres and its provisions. Learning will be on the theoretical; looking into the emergence of prose genres 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 the artistic and aesthetic characteristics. All this is done in an active learning atmosphere, employing various assessment tools (research papers, presentations, tests, etc.)

ARAB 225 Qatari Folk Literature Credit Hours: 3

This course attempts to introduce students to the concept of folklore, its definitions, and importance. Students will explore the social functions of folklore which fulfill societies’ aesthetic needs in general and the Qatari
society in particular. This will be achieved by studying a rich repertoire includes popular poetry, folktales, proverbs, folk songs, and literature of different periods. Such repertoire enhances artistic and social values related deeply to the Qatari society. To achieve its goals, the course employs different teaching means and methods, including presentations, lectures and discussions. It will give a great attention to analysis and applications. Hence, various selected data will be analyzed carefully to illustrate their aesthetic and social significance which will justify the importance of folklore. Through this engagement with various texts, students will be encouraged to involve in an active learning environment.

ARAB 261
Rhetorics
Credit Hours: 3
This course aims to know the three branches of Rhetoric science, recognize their aesthetic aspects, and develop the creative, analytical and critical ability of the student. Based on this understanding of the science of Eloquence with its different sections: simile, metaphors, antonomasia and vestibony, in the sciences 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 263
Prosody and Metrics
Credit Hours: 3
This course aims to enable the student to know the basic terminology of the science, familiarity, distinguish between the various poetry metrics, read poetic text correctly, and differentiate between measured poetry vs. non-measured. The course deals with 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, such as the pre-couvers of “The In-The Pre-Islamic Poetry” and “The Wednesday Interview”, and Adonis, in his book “The Constant and The Variables”, etc. The focus of the practical part is to research projects, discuss them 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 (applied modern theories in relation to literary tradition [20%], a research paper [10%], presentations and tests, etc.)

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 traditional and modern applications for each. This is followed by studying the riders and their significations and provisions. After that, the students are introduced to how infinitives, derivatives and verbal nouns act as verbs, then explains the vocative representations. The course also includes the phrase styles of praise, slander, information, questioning, recommendation, and pronouncement and commencement. The course ends with a collection of paraugraphic and non-paraugraphic phrase forms in a separate lesson. Course contents are accompanied with examples suitable for the situation, and various exercises to enhance applicable grammatical knowledge. All this is done in an active learing atmosphere, employing various assessment tools (research paper on some functional grammar issues, presentations, tests, etc.)

Prerequisite:
[ARAB 213 OR ARAB 346] AND [ARAB 218 OR ARAB 241]

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 identify the achieved contributions and failures of such methodologies. The analysis focuses on the historical, sociological, structural, psychological, semiotic, hermeneutical, and deconstructive approaches to analyze texts. Hence the student becomes familiar with the application of these approaches in the analysis of literary text with emphasis on the applied models. 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, such as the pre-couvers of “The In-The Pre-Islamic Poetry” and “The Wednesday Interview”, and Adonis, in his book “The Constant and The Variables”, etc. The focus of the practical part is to research projects, discuss them 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 (applied modern theories in relation to literary tradition [20%], a research paper [10%], presentations and 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-djahez through Hazem Alqirtagni. It then moves to address important critical works such as: the poetry column, the form, the content, poetry thefts, etc., and the importance of 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 this course is achieved by introducing the theories of linguistics and its modern applications on 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 as all this in an active learing atmosphere, employing various assessment tools (research paper, presentations and tests, etc.)

ARAB 352
Phonology
Credit Hours: 3
This course aims to enable students to understand the theoretical principles of the Arabic phonology, particularly the concepts of language and phonology and the difference between the modern semantic theories and the Arabic language, and the most important characteristics of the Arabic language and its dialects and manifestations, which Arabic 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 different approaches, centered around the students’ individual activities, such as training students on how to study the modern Arabic dialects and compare them to 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

ARAB 354
Semantics
Credit Hours: 3
The course aims to enable students to understand the modern semantic theories and knowledge of 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,
on the International Phonetic Alphabet (IPA), and the application of linguistic 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 active activities. Outside the classroom, individual contributions inside the classroom, introducing modern methods such as machine translation software, and morphologic analysis using the Internet.

Prerequisite: ARAB 351 OR ARAB 248

- **ARAB 372 Persian Language II Credit Hours: 3**
  This course focuses 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. This is done by the student self-exploring the light on profound rules provided throughout the texts of selected masterpieces of Persian literature by: Mighari, Ali-Ferhatosi, 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 according to points of articulation, then training them on international phonemic writing. The course also links the level of phonology in terms of studying phonemic changes in the context of theories of the basics of phonological analysis on the syractic and para-syntactic 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 syntax 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 assess

Prerequisite: ARAB 218 OR ARAB 346

- **ARAB 381 Modern and Contemporary Arabic Poetry Credit Hours: 3**
  The course is an integral part of the 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 (restoration, 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, Lamartine, and T.S. Elliot. As it will focus on the analysis of texts representing those schools and their achievements to assimilate the questions proposed to the Arabic poetic taste, and uncover their aesthetic achievements

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 modern narrative arts which were developed in the modernistic period, in particular the generative theory and how it addresses the Arabic language, with a focus on its fundamentals of the studies, including: the ranking of words, grammatical statements, sentence structure, matching, parsing, and transformational processes, and whatever would highlight the influence of non-Arabic language on the structure of the Arabic sentence, in addition to other changes. Also, dealing with language samples from different sources, collecting them via various methods and ways, and focusing on field experimental research. 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

- **ARAB 411 Traditions in Arabic Linguistics Traditions Credit Hours: 3**
  The course is based on readings in the Arab linguistic traditional heritage through selected texts representing the most important theoretical and applied milestones in the fields of linguistics studies; texts from the books of Sibawaih, Al-Mubarrad, Ibn Ijini, Ibn Al-Shajari, Ibn Hisham, Ibn Malik, and Ibn Rashid – profoundly addressing linguistic issues in a singular, excellent and pioneering fashion, if any. This course acquaints the student with the methodological depth, the way of treatment, and the style of reasoning, weighing, discussing and persuading. It also enables students to compare between Arabic linguistic schools on one side and their Western counterpart on the other, relating traditional linguistic perceptions of the language to what has been accomplished in the field of linguistics. This course aims to create a linguistic bridge between this modern and the genuine and the contemporary at the level of texts, perceptions and methods, capitalizing on

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 many ancient Arabic texts, translation many references, studying Arabic literature and the Arab society from an orientalist perspective). The focus is on the achievements of the most important symbols of English, Russian, 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 can evaluate the many predicaments indicating the deterioration of the Orientalist speech, and observe the ways orientalist infiltration;
This course aims to introduce contemporary literature in the Arabian Gulf region and identify the technical characteristics of the 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 posed. This course is based on the analysis of examples of contemporary literature in the Gulf region, in light of the modern criticism educational courses and the comparative historical methodology. All this is done in an active learning atmosphere, employing various assessment tools (research paper, presentations and tests, etc.)
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 (1880-1910) 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; 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 110

ARCT 211 Architectural Design Studio I
Credit Hours: 4
Introduction to project design; simple but complete architectural design projects that place emphasis on project design: 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; involves 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 a set of graphics for architectural design projects.

Prerequisite: ARCT 211

ARCT 220 Climate and Architecture
Credit Hours: 3
Introduction to various forces that shape the human environment with a particular focus on ecological determinants; Integration and internalization of environmental considerations aimed toward sustainable environments; Various issues are studied, including desertic land (brown fields), successful use of open spaces, indoor environmental qualities, as well as economic derivatives and human health matters; Natural Elements (air, sun and water) are studied as they interact with human needs within buildings or building complexes.

ARCT 221 History and Theory of Architecture I Early and Western Civilizations

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 (1880-1910) 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; 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 110

ARCT 222 History & Theory of Architecture II Islamic/Arab Civilizations
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 220

ARCT 230 Material & Methods of Building Construction 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; 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; external forces and concept of stress; stresses and strains; axial loading and axial deformation; Hook’s law, stresses due to temperature; torsion; pure bending; transverse loading and shear stresses in beams and thin walled members; principal stresses and strains.

Prerequisite: MATH 102

ARCT 241 Theory of Structures II
Credit Hours: 3
Structural engineering; calculation of reactions for statically determinate beams, frames, trusses, and composite structures; force calculation in trusses; 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 101

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 problems solving processes in architectural design; projects attempt to simulate real life conditions with real visit-able sites; activities and objectives, problem definition.

Prerequisite: ARCT 212

ARCT 311 Architectural Design Studio IV
Credit Hours: 4
Continuation of Architectural Design Studio (3) with emphasis on addressing the relationship between concept and context, idea generation and alternative solutions; evaluation; selection of solution and communication of project design; considerations of behavioral and cultural aspects, user requirements, 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 Materials & Methods of Building Construction 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. Lab assignments involve the utilization of Computer Aided Design and Drafting software packages.

Prerequisite: ARCT 230

ARCT 331 Environmental Control Systems I (Acoustics and
ARCT 330 Structures and Architectural Form I (Concrete Structures)

Prerequisite: ARCT 241

Credit Hours: 2

Introduction to material properties involved in RC behavior of RC sections, design of RC beams, slabs, columns, 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.

ARCT 341 Structures and Architectural Form II (Steel and Shell Structures)

Prerequisite: ARCT 241

Credit Hours: 2

Introduction to steel structures. The study of steel member behavior, design of tension members, compression members, 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.

ARCT 411 Architectural Design Studio 6

Prerequisite: ARCT 341

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.

ARCT 410 Architectural Design Studio 5

Prerequisite: ARCT 411

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.

ARCT 400 Practical Training 1

Prerequisite: ARCT 400

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 portfolio, technical reports, and presentations on their training and the experience gained.

ARCT 410 Architectural Design Studio 5

Prerequisite: ARCT 411

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.

ARCT 411 Architectural Design Studio 6

Prerequisite: ARCT 410

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 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 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 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 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 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.
liability; insurance and bonds; legal aspects in construction and construction claims; arbitration of disputes; local regulations, selected project applications.

Prerequisite:
ARCT 333

ARCT 431 Cost Estimation, Valuation & Qualification
Credit Hours: 3
 Appreciation and understanding of the economics of building. Primary methods for cost estimation needed in systems development, including line item estimation, parametric estimation, level-of-effort; front- and rear-loaded estimation, and probabilistic loading. The estimation methods are placed in context of a Work Breakdown Structure and program schedules, while explaining the entire estimation process.

Prerequisite:
ARCT 333

ARCT 450 Interior Design Workshop
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 221

ARCT 451 Computer Applications in Architecture (advanced)
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 111

ARCT 452 Contemporary Architecture 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 Criticism 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 develop 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 320

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.

Prerequisite:
ARCT 512

ARCT 520 Landscape Architecture
Credit Hours: 3
 Introduction to the fundamentals of landscape architecture; study of the relation 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, land use and land preservation, elements and methods of landscape design; study of aesthetic and functional values.

Prerequisite:
ARCT 221

Construction & Project Management
Credit Hours: 3
 Introduction to the construction industry; local and international, project life cycle and organization, project contract types and delivery methods, project scope management, project time and cost management (project controls), project quality management, project resource and procurement management, project communications management, management and leadership; soft skills and emotional intelligence, project risk management, project HSE (health, safety, and environment) management, project budgeting and financial management, project claim management, computer applications in construction management.

Prerequisite:
ARCT 333

ARCT 531 Ethics & Professional Practice
Credit Hours: 3
 Different aspects of professional practice; People and organizations involved in building industry; Professional services during different phases of building projects are introduced and clarified; Different practical problems of economic decisions. Different types of professional fees during the project implementation are highlighted. Specifying professional ethics; clarifying the different professional responsibilities between involved parties in the profession. Ethics of professional practice are emphasized, and students learn ethical and legal responsibilities for public health, safety and welfare, property rights, accessibility and other factors affecting design, as well as construction and architectural practice.

Prerequisite:
ARCT 422

ARCT 560 Computer Applications in Urban Planning and G.I.S
Credit Hours: 3
 Computer aided planning processes, computer-based geographic information handling–GIS and desktop mapping technology; fundamental concepts and structure of GIS in the context of other related disciplines such as cartography, remote sensing and urban planning. Topics include basic GIS concepts such as map characteristics, spatial data models, relational databases, and spatial analysis, sources of data, data quality and database management.

Prerequisite:
ARCT 111

Different aspects of professional practice; People and organizations involved in building industry; Professional services during different phases of building projects are introduced and clarified; Different practical problems of economic decisions. Different types of professional fees during the project implementation are highlighted. Specifying professional ethics; clarifying the different professional responsibilities between involved parties in the profession. Ethics of professional practice are emphasized, and students learn ethical and legal responsibilities for public health, safety and welfare, property rights, accessibility and other factors affecting design, as well as construction and architectural practice.
400 AND ESL Reading Skills 100 AND ESL Language Writing Workshop 225) OR (Total for Integrated Core Skills 100) AND (ENGL 042 OR ENGL W002 OR APL for measurement, and reinforces concepts discussed in photosynthesis, cellular respiration, cellular reproduction, majors and minors, covering important biological concepts, Biology 101 is the first introductory course for biology Credit Hours: 3

Biology I

ENGL 111 OR ENGL 151

Biology I

Credit Hours: 3

Biology 101

Introduction to Life Science


Prerequisite:

ENGL 111 OR ENGL 151

Biology I

Credit Hours: 3

Biology 101

Introduction to historic preservation in an architectural context with a focus on building materials, properties and technologies of conservation and restoration. Topics include the history of the field, the development of its theories, the different levels of intervention, an overview of the technical conservation matters including traditional building techniques, and the relevant compatible approaches to conserve historic buildings, discussion on the means to enhance and to appropriate conservation methods according to selected cases.

Prerequisite:

ARCT 222

Biology 100

Introduction to Life Science

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 Concurr.

Molecular Cell Biology

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-bounded organelles; microtubules; cytoskeletal components; extracellular matrix; membrane transport; electrical properties of cells; intracellular compartments and protein sorting; intracellular vesicular traffic; cell communication; signaling and signal transduction; regulated 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, immunoenasalyis, in vitro translation, transfection, subcellular fractionation, and microscopy techniques.

Prerequisite:

BIOL 241

Molecular Biology

This course helps students to understand Nuclie acids as the genetic material, how was DNA proven to be the Genetic Material. Chemical and Physical Properties of Nucleic Acids, Central Dogma of Molecular Biology. DNA replication, Gene Expression: Transcription and Translation. Types of RNA, RNA Processing: The Genetic Code; with a comparison between Prokaryotes and Eukaryotes in all these aspects and processes.

Prerequisite:

BIOL 241

Animal Histology

Types of tissue, epithelial, connective, muscular and nervous tissues. Structure and basic function of organs

Prerequisite:

BIOL 312

Molecular Biology

Credit Hours: 3

BIOL 212

Genetics

Credit Hours: 3


Prerequisite:

BIOL 101

Molecular Cell Biology

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-bounded organelles; microtubules; cytoskeletal components; extracellular matrix; membrane transport; electrical properties of cells; intracellular compartments and protein sorting; intracellular vesicular traffic; cell communication; signaling and signal transduction; regulated 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, immunoenasalyis, in vitro translation, transfection, subcellular fractionation, and microscopy techniques.

Prerequisite:

BIOL 241

Molecular Biology

Credit Hours: 3

BIOL 211

Cell Biology

Credit Hours: 3


Prerequisite:

BIOL 101

Basic Ecology

Prerequisite:

BIOL 101 Concurr.

Basic Ecology

Credit Hours: 3

Prerequisite:

BIOL 101

Human Biology

Credit Hours: 3

Prerequisite:

BIOL 101

Molecular Biology

Credit Hours: 3

Prerequisite:

BIOL 241

Molecular Biology

Credit Hours: 3

Prerequisite:

BIOL 310

Molecular Cell Biology

Credit Hours: 3

Prerequisite:

BIOL 221

Basic Ecology

Credit Hours: 3

Prerequisite:

BIOL 102

Microbiology

Credit Hours: 3

Prerequisite:

BIOL 241

Microbiology

( ( ENG 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 Eng Lang Test Syst-IELTS 5.5 OR ENGL 004 OR ENGL 111 OR ENGL 250 OR ENGL 201 OR ENGL 202

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 life organisms which started from the most microscopic (micro- ) organisms like Bacteria and Protozoas 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

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.

Prerequisite:

BIOL 101

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.

Prerequisite:

( ( ENG 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
and systems, circulatory, respiratory, urinary, immune and reproductive systems. Digestive system and its glands. Nervous system and sense organs.

Prerequisite:
Biol 101

BIOL 321
Princ of Environmental Biology
Credit Hours: 3
Environmental Biology deals with interaction of biotic and physical components of the environment. However, as defined by specialists, the field of study lies between ecology and environmental science. Since the former deals with the study of nature while the latter concentrates on the impact of human activities on the environment, Environmental Biology creates the link between the two; while conceptual ecology is highlighted, the inevitable human presences and influence is taken into consideration. The approach is therefore more restorational than the old-fashioned conservations outlook.

Prerequisite:
Biol 221

BIOL 322
Desert Biology
Credit Hours: 3

Prerequisite:
Biol 221

BIOL 344
General Parasitology
Credit Hours: 3
This course covers the scope of parasitology, particularly the basic concepts related to hosts, specificity, parasite populations and their interactions, infections and diseases. It also covers the types and the taxonomy of animal parasites and host-parasite relationship. In addition, Zoonose Biology, Pathogenicity and epidemiology of representatives of animal parasites and their relationships with man, animals and plants are treated. Finally, the general principles and the etiology of parasitic disease and their limitations are explained.

Prerequisite:
Biol 102

BIOL 345
Health, Safety & Environment
Credit Hours: 3
This course considers the key aspects of a health and safety management system; risk assessment and monitoring, and the roles and responsibilities of individuals within a management system and how they can affect the safety of that organization. The course provides the basics of health and safety in the laboratory setting, but focuses specifically on relevant health, safety and environment issues for stakeholders in the Gulf region, including passport control (permit to work), offshore safety and survival, fire fighting, search rescue, gas testing, accident investigation, and environmental awareness.

BIOL 346
Environmental Health
Credit Hours: 3
This course covers topics concerned with both the natural and built environment that affect human health, taking in consideration the impact of physical, chemical and biological factors on human health. Emphasis on ecosystem status or function will be covered.

BIOL 351
Plant Anatomy & Physiology
Credit Hours: 3
This course covers the principles of plant physiology, particularly energy flow through plant systems, enzymes, water relations, water transport, mineral nutrition, photosynthesis, respiration, metabolism of carbohydrates, proteins, lipids and Growth hormone functions.

Prerequisite:
Biol 102 AND CHEM 351

BIOL 362
Animal Anatomy & Physiology
Credit Hours: 3
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 to cover the physiology of organs and systems with emphasizes on the underlying biophysical 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 Engineering & DNA Technology
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 and 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 tranfection.

Prerequisite:
Biol 311

BIOL 421
Ecophysiology
Credit Hours: 3

Prerequisite:
Biol 362 Concurs. AND BIOL 351 Concurs.

BIOL 422
Environmental Management & 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 control; 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
Biotecnology
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 involved 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

296 297
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.

BIOM 210 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, female genital system, male genital system, central nervous system, special sense organ and endocrine system.

Prerequisite: BIOL 101

BIOM 213 Human Embryology Credit Hours: 3
Gametogenesis, ovulation, fertilization, implantation, bilaminar germ disc, trilaminar germ disc, embryonic period, fetal period, fetal membranes, placenta and congenital malformations. Assisted reproductive techniques, development of urgenital, 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, and, gastrointestinal and related systems to accomplish homeostasis.

Prerequisite: BIOL 101

BIOM 217 Human Genetics Credit Hours: 3

Prerequisite: BIOL 101

BIOM 243 Introduction to Pathology Credit Hours: 2
The basic pathology of immunology and how the immune system can cause disease. The principles and mechanism of patholgical 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.

Prerequisite: BIOM 301

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.

Prerequisite: BIOL 362 Concur.
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, cell lysis and interference. Practical assessments that include classical virological 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, enzyme, and electrolytes/acid-base balance. The principles of testing methods and the physiologic 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.

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 346

BIOM 411 Forensic Science Credit Hours: 2
The course includes the legal importance of forensic medicine and its contribution to justice. It includes forensic medicine 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 medicine prognosis. In addition, asphyxiology receives a broad 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 243

BIOM 418 Pharmacology & 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. Specific agents. It will also cover porphyrias and disease, clinical chemistry of the geriatric patient, clinical chemistry of the pediatric patient, clinical nutrition including vitamins and minerals. Instrumentation in clinical chemistry laboratory will also be covered.

Prerequisite: BIOM 215

BIOM 422 Diagnostic Microbiology Credit Hours: 2
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 collection and handling of different pathological specimens. Advanced procedures and identification techniques used to isolate and identify bacteria. Morphological, biological, and biochemical characteristics of bacteria commonly isolated from clinical specimens.

Prerequisite: BIOM 322

BIOM 425 Clinical Immunology Credit Hours: 3
Molecular diversity and control of immune system and its association with disease states. Modern application of antibodies and cytokines in diagnosis and treatment of disease. The immune system and its relationship to infection, transplantation and immunopathology with special emphasis on immunological techniques.

Prerequisite: BIOM 243 Concur.

BIOM 442 Hematology & Hemostasis Credit Hours: 4

Prerequisite: BIOM 243 Concur.

BIOM 451 Immunohematology & Blood Bank Credit Hours: 3
This course is designed to provide the Bio-medical students with a concise theoretical account about Immunohematology and transfusion practices and a comprehensive knowledge of modern routine blood banking and adequate practical training on all Blood Bank serological procedures including blood grouping, antibody screening and identification, compatibility testing and preparation and storage of blood components. It also provides the students with necessary information about important clinical aspects of blood transfusion such as recognition and investigation of adverse transfusion reactions.

Prerequisite: BIOM 451

BIOM 452 Pathology

BIOM 453 Pharmacology

BIOM 463 Endocrinology Credit Hours: 3

Prerequisite: BIOM 215

BIOM 491 Clinical Practice in Hematology Credit Hours: 3
Supervised clinical practice in the clinical chemistry 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 346

BIOM 492 Clinical Practice in Hematology Credit Hours: 3
Supervised clinical practice in the clinical hematology laboratory, providing experience in procedures and 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 493 Clinical Practice in Immunology 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, FOLLOWING QUALITY ASSURANCE PRACTICES, AND USING APPROPRIATE SAFETY MEASURES.

Prerequisite: BIOM 426
BIOM 494 Clinical Practice in Microbiology Credit Hours: 3
Supervised clinical practice in the clinical microbiology laboratory providing experience in procedures and 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 422
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
CHEM 101 General Chemistry I Credit Hours: 3

Prerequisite:
(ENG 104 OR ENG 105 OR Total for Integrated Core 400) AND (ENG 101 OR ENG 102 OR ESL Reading Skills 100) AND (ENG 112 OR ENG 113 OR APL for Writing 100) OR (Total for Integrated Core 400 AND ESL Reading Skills 100 AND APL for Writing 100) OR TOEFL Internet-based Test 061 OR TOEFL Computer based Test 073 OR Int Eng Lang Test SYSTEILS 8.5 OR ENG 004 OR ENG 111 OR ENG 250 OR ENG 201 OR ENG 202
BIOM 497 Research Project Credit Hours: 3
The Research Project (RP) is an important component of your academic experience within the Biomedical Sciences Program of Qatar University. This aspect of the program affords you the opportunity to demonstrate knowledge and skills gained in various courses and to apply research methodologies to become a competent biomedical scientist. This degree requirement will assist you to better comprehend scientific research in your work setting and/or graduate education. During your research experience, you will progress from a guided learning experience to a self-directed experience. The requirements associated with this research project and its timelines were planned to ensure your success. The RP is a process and a product. It requires you to identify a research question and to employ a scientific method to conduct a research study in collaboration and under the guidance of a faculty member. The product aspect is two-fold: a research paper and a presentation.

CHEM 102 General Chemistry II Credit Hours: 3

Prerequisite:
CHEM 101 AND CHEM 104 Concur.
CHEM 103 General Organic Chemistry I Credit Hours: 3

Prerequisite:
CHEM 101 Concur.
CHEM 104 Experimental General Chemistry II Credit Hours: 3

Prerequisite:
CHEM 103 AND CHEM 102 Concur.
CHEM 209 Fundamentals in Organic Chemistry Credit Hours: 3
CHEM 209 is designed for students pursuing bachelor's degrees in biomedical nutrition. Nutrition, chemical engineering, or pharmacy. The topics covered in this course include structure, properties and reactivities of aliphatic and aromatic hydrocarbons; their industrial applications and the concept of stereoisomerism. Alkyl halides and their reactions; and nomenclature and reactivities of alcohols, aldehydes, ketones, esters and amides will be covered in this one semester course.

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 introduces 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., steroidal 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
Stereocenters and chiral molecules – Reaction sequences and elimination reactions of alkyl halides – Radical reactions – Conjugated systems – Aldehydes and ketones (aldehyde reactions) – synthesis and reactions of carboxylic compounds – phenols and are Aromatic hydrocarbons (nucleophilic aromatic substitution): carbohydrates.

Prerequisite:
CHEM 211
CHEM 213 Experimental Organic Chemistry Credit Hours: 1
This laboratory is a vital supplement to the lecture course, CHEM 212. It introduces methods of synthesis and analysis of organic reactions. 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. The lab gives the student adequate training in the use of organic lab techniques and report writing.

Prerequisite:
CHEM 212 Concur.
CHEM 221 Inorganic Chemistry I Credit Hours: 1
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, acids and bases, symmetry and symmetry elements, symmetry points groups and character tables. This course will also provide a brief introduction to coordination and organometallic chemistry.

Prerequisite:
CHEM 101
CHEM 222 Experimental Inorganic Chemistry Credit Hours: 1
Synthesis and characterization of complex compounds. Cis-trans isomerism and coordination of unusual oxidation states by ligands. Magnetic and spectroscopic properties of complex compounds.
Prerequisite: CHEM 221 Concur.

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.

Prerequisite: CHEM 101

CHEM 234 Experimental Analytical Chemistry Credit Hours: 1
Gravimetric analysis – Neutralization reactions – Precipitation reactions – Oxidation and reduction reactions – Complexometry.

Prerequisite: CHEM 103 AND CHEM 231 Concur.

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, heat and energy, The second law, entropy and free energy, Free energy, chemical potential, effect of temperature and pressure on free energy changes, Touron's and Richard's rules - Free energy changes of temperature and pressure on free energy changes, and free energy, Chemical potential, effect of temperature, work, heat and energy, The second law, entropy.

Prerequisite: CHEM 241 OR CHEM 286

CHEM 242 Experimental Physical Chemistry I Credit Hours: 1

Prerequisite: CHEM 102 AND CHEM 241 Concur. AND CHEM 104

CHEM 275 Principles of Environmental 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 311 Organic Chemistry III Credit Hours: 3
Fused polynuclear aromatic hydrocarbons – nonbenzoid 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 antimarial compounds).

Prerequisite: CHEM 211

CHEM 312 Organic Chemistry IV Credit Hours: 2
Spectroscopic techniques (infrared, ultraviolet, nuclear magnetic resonance and mass spectrometry) in identification of organic compounds (problems and answers).

Experimental: Preparation of some organic compounds (multi-steps preparations) – identification of organic compounds using different spectroscopic methods.

Prerequisite: CHEM 212

CHEM 315 Environmental Chemistry Credit Hours: 2
This course introduces students to major topics of current interest in environmental chemistry. Topics covered 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 321 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.

Prerequisite: CHEM 211

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 f block elements and their coordination chemistry, material properties, electronic spectra and properties of some elements.

Prerequisite: CHEM 221

CHEM 331 Analytical Chemistry II Credit Hours: 3
This course will introduce students to computational chemistry and its basis in quantum chemistry. Quantum chemistry principles, including the Schrodinger 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 properties, optimizing 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, Spartan, and molecular modeling. Also, different kinds and levels of calculations as HF, RHF, AM1, PM3 and others will be demonstrated.
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 nucleotides, structure of RNA and DNA, DNA synthesis, RNA synthesis, protein synthesis, gene expression.

Prerequisite:
CHEM 212 OR CHEM 209
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-Rad 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 Concur.
CHEM 375 Industrial Chemistry I
Credit Hours: 3
Introduction to industrial chemistry, resources of chemical materials, research and development, worldwide chemical industry impact, technological economy, energy, chemical industry impact on environment, industrial catalysis, cements.

Prerequisite:
CHEM 241 Concur.
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 351
CHEM 442 Experimental Physical Chemistry II
Credit Hours: 1

Surface Chemistry: adsorption isotherms and fluorimetry.

Prerequisite:
CHEM 242 AND CHEM 341 Concur.
CHEM 451 Special Topics
Credit Hours: 3
Advanced level of study in selected areas of various disciplines. Topics such as: photochemistry, photophysics, corrosion, laser chemistry, biorganic chemistry, polymers, organometallic, and natural products

CHEM 462 Research Project
Credit Hours: 3
This course gives students the opportunity to obtain, develop, demonstrate and acquire the necessary research skills in chemistry. Most of the research topics are interdisciplinary, so crossing in and 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.

CHEM 201 Introduction to Chemical Engineering 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 CHEM 101 AND PHYS 191 Concur.
CHEM 202 Introduction to Chemical Engineering II
Credit Hours: 3
Vapor-liquid equilibrium calculations for systems containing one condensable component and for ideal multi-component solutions, including bubble and dew point calculations. Forms of energy, the first law of thermodynamics, thermodynamic data, energy balance equations, process design, process simulation, phase changes, mixing of liquids, and dissolving of gases and solids in liquids. Balances on reactive systems using either the heat of reaction method or the heat of formation method.

Prerequisite:
CHEM 201
CHEM 212 Chemical Engineering Thermodynamics I
Credit Hours: 3

Prerequisite:
CHEM 201
CHEM 213 Fluid Mechanics
Credit Hours: 3

Prerequisite:
CHEM 201 AND MATH 102
CHEM 311 Heat Transfer
Credit Hours: 3

Prerequisite:
CHEM 202 AND GENG 300 Concur. AND CHEM 213
CHEM 312 Chemical Engineering Thermodynamics II
Credit Hours: 3

Prerequisite:
CHEM 212 OR CHEM 209 Concur. AND CHEM 341 Concur.
CHEM 313 Mass Transfer I
Credit Hours: 3

Prerequisite:
CHEM 311 Concur. AND CHEM 312 Concur.
CHEM 314 Chemical Reaction Engineering
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 reactor, elementary, reversable, 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
CHME 324
Chemical Engineering Lab I
Credit Hours: 1
Experiments in fluid flow and heat transfer: Frictional pressure losses in pipes & fittings, Pump performance, Convection, and Double pipe and Shell & tube heat exchangers.
Prerequisite:
ENGL 203 AND CHME 311 Concur. AND CHME 213
CHME 325
Chemical Engineering 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 413
Process Modeling & Simulation
Credit Hours: 3
Prerequisite:
CHME 314 AND MATH 217 AND CHME 315
CHME 415
Computer Methods in Chemical Engineering
Credit Hours: 1
The aim of the course is to introduce simulation tools for analysis, planning and management of chemical processes. Students will attain knowledge and skills to apply advanced chemical engineering software packages (e.g., Aspen Plus/Hyds, Matlab, HTRI) to conduct design and simulation of chemical processes.
Prerequisite:
CHME 315 Concur.
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 Concur.
CHME 426
Chemical Engineering 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, hydro treating, catalytic reforming, isomerization, polymerization, product blending, light end unit and other supporting processes, laboratory experiments in petroleum characterization.
Prerequisite:
CHM 211 Concur. OR CHEM 209 Concur.
CHME 433
Petrochemical Technology
Credit Hours: 3
Prerequisite:
CHME 211 Concur. OR CHEM 209 Concur.
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:
CHME 213 OR CHEM 209 Concur. AND CHEM 211 Concur.
CHME 445
Desalination
Credit Hours: 3
Industrial desalination processes such as multi stage flash, multiple effect distillation, reverse osmosis, and electrodialysis. Technical and economic analysis of desalination processes. Water quality and analysis.
Prerequisite:
CHME 311
CHME 451
Introduction to Gas Engineering
Credit Hours: 3
Prerequisite:
CHME 312
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
are presented, including sedimentation, filtration, biological wastewaters. Physical, chemical, and biological processes are used in the treatment of wastewater treatment systems. It starts with an introduction to wastewater treatment. This course aims to provide an overview of the engineering principles of chemical processes safety and hazards prevention, especially in chemical processes. It includes application of chemical process safety principles, risk assessment and management, hazard and operability analysis, chemical engineering principles for risk reduction, industrial hygiene, and hazard identification. Case studies and term projects will be used to enhance students’ mastering of these principles.

Prerequisite: CHME 312

CHME 458 Process Safety and Hazards Prevention
Credit Hours: 3

This course aims to establish concepts that lead to enhanced process safety and hazards prevention, especially in chemical process industries. It includes application of chemical process safety principles, risk assessment and management, hazard and operability analysis, chemical engineering principles for risk reduction, industrial hygiene, and hazard identification. Case studies and term projects will be used to enhance students’ mastering of these principles.

Prerequisite: CHME 458

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 treatment and bioremediation will be addressed.

Prerequisite: CHME 310

CHME 464 Wastewater Treatment
Credit Hours: 3

This course aims to provide an overview of the engineering approach to wastewater treatment systems. It starts with a basic description and understanding of the principle unit operations and processes used in the treatment of wastewaters. Physical, chemical, and biological processes are presented, including sedimentation, filtration, biological treatment, disinfection, and sludge processing. It will extend to understanding the kinetic theory of biological growth, applying it to typical aerobic processes, and appreciating the purpose and practice of sludge treatment.

Prerequisite: CHME 315 with concurrence

CHME 465 Introduction to Biochemical Engineering
Credit Hours: 3

This course aims to introduce main aspects of biochemical engineering. It includes application of engineering principles to biochemical processes that employ living cells or enzymes. Topics covered include basic biology and biochemistry, enzyme kinetics, microbial growth kinetics, bioreactor design and scale-up, and transport phenomena. Biological waste treatment and bioseparation applications will be addressed.

Prerequisite: CHME 458

CHME 466 Special Topics in Chemical Engineering 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: CHM 213

CHME 467 Special Topics in Chemical Engineering 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: CHME 467

CHME 470 Fund of Petroleum Engineering
Credit Hours: 3

The course covers different disciplines in petroleum engineering of the upstream operation, well planning, flow performance, production behavior and reservoir management. The course incorporates external lecturers from industry, to talk about one of the main petroleum engineering disciplines, as well as a field trip to see the drilling operations and surface facilities. In addition, a term project is included, to cover different disciplines of Petroleum Engineering.

Prerequisite: CHME 213 AND CHME 312

CHME 474 Process Equipment Design
Credit Hours: 3

Material selection and mechanical design of heat exchangers, cooling towers, VLE columns, pumps/ compressors, furnaces and pressure vessels. Factors influencing the design of vessels. Design of shell for float-bottomed cylindrical vessels. Proportioning and head selection for cylindrical vessels with formed closures. Design of cylindrical vessels with formed closures operating under high pressure.

Prerequisite: CHME 315

CHME 477 Process Integration
Credit Hours: 3

The course introduces advances in process integration and synthesis. It presents systematic techniques to gain insight into process mass and energy flows and it shows how these insights can be used to optimize process performance. Various mathematical and visualization tools are covered. Special focus is given to integration and synthesis methods.

Prerequisite: CHME 315 with concurrence

CHME 478 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 488 Undergraduate Research
Credit Hours: 3

This is a research-oriented course, which is aimed at enhancing students’ independent learning and research skills. A major research project in a chemical engineering topic is included. Such topics will involve theoretical, experimental or computational aspects. Students are expected to enhance and practice research skills in the assigned topic and present their results orally and in writing.

Prerequisite: ENGL 203 AND GENG 200

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: CHME 495

CMPE 261 Digital Logic Design
Credit Hours: 3

Introduction to digital logic circuit design, combinational and sequential circuits. TTL logic family; combinational logic design; logic minimization techniques; logic implementation techniques for ROM, RAM, EPROM, 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 Concur.

CMPE 262 Digital Logic Design Laboratory
Credit Hours: 1

Selected experiments examining logic devices and circuits, a final design project to accompany and complement the lecture course.

Prerequisite: CMPE 261 Concur.

CMPE 263 Computer Architecture & Organization 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: CMPE 263
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
Introduction to Digital Image processing
Credit Hours: 3
Introduction to various mathematical and algorithmic concepts in digital image processing and hands-on implementation using simulated environments. Hands-on experimentation with image operations; filtering, de-convolution, edge detection, geometric transformations, compression, conversions.

CMPE 482
Introduction to Robotics
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 483
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: CMPE 455

CMPE 484
Fundamentals of Digital Image processing
Credit Hours: 3
Introduction to various mathematical and algorithmic topics in computer engineering. Topics and credit hours vary.

CMPE 485
Hardware Software Co-Design
Credit Hours: 3
A knowledge of how to design reliable and real-time embedded systems is a very important asset of today's computer engineer, particularly for the design of heterogeneous and SoC embedded platforms using hardware (HW) software (SW) co-design approaches. This course will emphasize on the integration of custom hardware components with software. Topics to be covered are: Embedded systems design, reconfigurable computing, heterogeneous SoC platforms (FPGA, ARM), HW/SW co-design techniques, hardware compilation, Tools for HW/SW co-design.

Prerequisite: ELEC 351

CMPE 490
Introduction to Computer Science
Credit Hours: 3
Fundamental concepts of computer systems organization, logic, and algorithmic problem solving. Lab session: problem solving with fundamental components of a modern programming language.

CMPS 101
Programming Concepts
Credit Hours: 3
Exposure to problem solving techniques and operations on data using the fundamental components of a programming language. Problem solving techniques and presentations; motivations to programming languages and program execution; fundamental components of a programming language including simple and structured data representation; mathematical and logical operations; input/output, control, and loop structures; functions; recursion; memory referencing; and simple file processing.

Prerequisite: CMPS 152 Concur.

CMPS 152
Computing Concepts - Lab
Credit Hours: 1
Practical experience with programming fundamental components of a programming language and exploring additional features illustrated by solving problems of various types and requirements. Compiling all in a well-formulated interim report and orally presenting it to the examining committee.

Prerequisite: CMPE 370 Concur.

CMPS 153
Computer Ethics
Credit Hours: 1
Overview of computing ethics and practice. Philosophical ethical theory and morality; codes ethics and professional practice; cyber and computer crimes; whistle blowing; privacy and freedom of expression; legal and ethical issues; intellectual property and rights; safety-critical program development; ethics and the market place.

CMPS 205
Discrete Structures for Computing
Credit Hours: 3
Introduction to the elements of mathematics applicable to the computing field. Logic and methods of proof; logic gates and simple sequential circuits; Boolean algebra and minimization; set theory; relations and functions; sequences and sums; induction and recursion; numbering systems, combinations; discrete probability; graphs and trees.

CMPS 251
Object-Oriented Programming
Credit Hours: 3
Fundamentals of object-oriented programming paradigm illustrated with an object-oriented programming language. Object-oriented design; encapsulation and information hiding; coherence, inheritance, abstraction, polymorphism, coupling; graphical user interface programming; additional features of the language.

Prerequisite: CMPS 151 AND CMPS 252 Concur.

CMPS 252
Object-Oriented Programming lab
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 Concur.

CMPS 303
Data Structures
Credit Hours: 3
Static and dynamic presentation, implementation, analysis, and applications of abstract data types (ADTs) 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 Introduction to Project Management and Entrepreneurship
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. Credit: CMPS 307 prepares students 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 and notations; class, state, and interaction modeling; system conception; domain and application analysis; system and class design; implementation modeling; design patterns; object-oriented languages code generation and reverse engineering.

Prerequisite: CMPS 251

CMPS 312 Mobile Application Development
Credit Hours: 3
Concepts, principles, design strategies, tools and frameworks to design and develop mobile applications on modern mobile platforms that make use of key mobile sensors and system services and connect to online data sources and Web services. Hands on experience in designing and constructing mobile apps using a mainstream development platform and framework such as Android or iOS.

Prerequisite: CMPS 251

CMPS 323 Design and Analysis 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 303 AND CMPS 205

CMPS 345 Automata & 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 205

CMPS 351 Fundamentals 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 schemata); relational data model, mapping conceptual schema to a relational schema; relational algebra, relational calculus, SQL normalization.

Prerequisite: CMPS 251 AND CMPS 352 Concur.

CMPS 352 Fundamentals 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 Concur.

CMPS 356 Software Development of Enterprise Applications
Credit Hours: 3
Introduction to issues, architectures, and technologies for designing and developing multi-tiered enterprise applications. Emphasis on object-relational mapping, multithreading, 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 applications, frameworks, middleware, and development tools to design, develop, test, and secure an enterprise application.

Prerequisite: CMPS 351

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 graphical objects (geometric transformations, viewing, shading, discrete techniques, buffers and mappings).

Prerequisite: CMPS 303

CMPS 391 Modeling & Simulation
Credit Hours: 3
Fundamentals of studying systems by modeling and simulation focusing on developing discrete-event modeling, simulations. Reasons for simulation, basic simulation modeling; systems modeling; developing discrete-event simulation models; queueing models; random number generation, 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
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.

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 CMPS 406 Concur. AND CMPS 263

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 Concur.

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, process models; 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 programs, text, images, 2D and 3D graphics, audio, video; data
overview of wireless networks, cellular networks, wireless

Prerequisite:
CMPS 303

CMPS 445 Compiler Construction
Credit Hours: 3

Theoretical and technical aspects needed to construct compilers and interpreters illustrated by a comprehensive study of the design and implementation for a real language. Fundamentals of compilers and interpreters; syntactic and lexical analysis; handling user-defined types and type checking; context analysis; code generation and optimization; memory management and run-time organization.

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 database access; 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, protocols; mobile applications, handset platforms, service delivery platforms.

Prerequisite:
CMPE 455

CMPS 465 Parallel & Distributed Systems
Credit Hours: 3

Fundamental concepts and practical aspects underlying the design and engineering of modern parallel computing systems including system models and enabling technologies, parallel architectures, parallelization strategies, parallel algorithms and their applications, optimization and performance, implementation frameworks and languages, programming models and design principles for parallel and distributed computing. Students acquire hands-on experience in the design and development of parallel and distributed computing systems.

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 storage 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 phase of the computer science capstone project that involves number of students tackling different aspects of applied-research and/or development project requiring significant effort for planning and completion. Team members experience different roles and gain range of diverse technical skills in all phases of the project development. This first part focuses on problem definition, requirements gathering and analysis, defining a high level architecture of the proposed solution, preparation of a project plan for implementing and completing the project, compiling all in a well-formatted interim report and orally presenting it to the examining committee.

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

Continuation of the capstone senior project started in CMPS 493 course. It includes detailed design, implementation and testing following a systematic development process while incorporating appropriate design and development principles and standards. This culminates in producing a working solution and a formal final report, and presenting the project achievements including a demo.

Prerequisite:
CMPS 497

CVEN 210 Properties & Testing of Materials
Credit Hours: 3

Composition and properties of Portland Cements, special cements, gypsum, 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 mixing and on mixing of concrete cubes, split-tension test, rebound hammer and PUNDIT.

Prerequisite:
CHEM 101 AND CHEM 103

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 principles; similitude, pipe flow.

Prerequisite:
PHYS 191 AND PHYS 192 AND (CVEN 213 OR CVEN 211)

CVEN 213 Statics
Credit Hours: 3

General principles of statics, force vectors in two and three dimensions, force system resultants, free body diagrams, equilibrium of a particle, moment of a force about a point and about an axis, equilibrium of a rigid body, introduction to structural analysis, internal forces, shear and bending moment diagrams, introductory truss analysis, friction, center of gravity and centroid, moments of inertia.

Prerequisite:
MATH 102

CVEN 214 Strength of Materials
Credit Hours: 3

Stress, strain, mechanical properties of materials, Hook’s law, axial load, stress due to temperature, introduction to statically indeterminate members, axial load, torsion and torsional stress, pure bending and bending stress, transverse shear and shear stress, combined loadings and stresses, stress transformation, introduction to design of beams, introduction to buckling of columns.

Prerequisite:
CVEN 213

CVEN 220 Analysis of Structures
Credit Hours: 3


Prerequisite:
CVEN 213 OR CVEN 211
of retaining walls.

Prerequisite: CVEN 320

CVEN 423
Selected Topics in Structural Design
Credit Hours: 3
Analysis and design of pre-stressed beams, wind load calculations, use of structural analysis software for multistory buildings, introduction to structural dynamics, new developments in structural engineering.

Prerequisite: CVEN 320

CVEN 424
Structural Matrix Analysis
Credit Hours: 3

Prerequisite: CVEN 321

CVEN 430
Foundation Engineering II
Credit Hours: 3
Analysis and design of deep foundations (piers, caissons, piles), stability, and design of sheet-pile walls (cantilever, free and fixed earth support types, ties, wales), design of secant-pile walls, computer applications.

Prerequisite: CVEN 330

CVEN 431
Selected Topics in Geotechnical Engineering
Credit Hours: 3
Stability of slopes, design of dewatering systems, characteristics of desert problematic soils (swelling soil, dune sand, salt-bearing soil “Sabkah”, liquefiable sand), 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
Selected Topics 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, principals and fundamental equations of porous media 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 Environmental Engineering
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 Design
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

CVEN 461
Traffic Engineering
Credit Hours: 3

Prerequisite: CVEN 360

CVEN 462
Selected Topics in Transportation Engineering
Credit Hours: 3

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 VPM 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
Selected Topics in Construction Engineering and Management
Credit Hours: 3
Selection taken 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

DAVA 111
Islamic Culture
Credit Hours: 3
Aims at introducing students to the foundations, manifestations and structures of Islamic Culture and to enlightening him about the challenges facing this culture.

DAVA 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 hearts 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 produce ideas.

DAWA 114
Modern Techniques of Dawa
Credit Hours: 3
1- Educating the student on the information and skills required for a successful life.
2- Encouraging the student to participate in Dawa activities in the society.
3- Developing communications skills.
4- Encouraging the student to participate in Dawa activities in the society.
5- Acquainting the student with essential moral qualities, its justice and a civil society.
6- Acquainting the student with skills for dialogue, discussions and objective reasoning.
7- Enabling the student in 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 civilizations.
2- Enriching 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 justice and a civil society.
4- Enriching the student to the role of Sirah of the Prophet (peace be upon him) in the various spheres of life.
5- Acquainting the student with skills for dialogue, discussions and objective reasoning.
6- Acquainting the student with essential moral qualities, its justice and a civil society.
7- Enabling the student to analyze and produce ideas.

DAWA 202
Introduction 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 Islamic thought.
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:
1. An introduction to research methodology and independent research skills.
2. Key empirical and analytical skills that will facilitate discipline and interdisciplinary research in various fields.
3. Improved academic writing skills, the ability to give and receive constructive feedback and to act constructively upon it.
4. Effective ways of using library resources for research work.

DAWA 205 School of Islamic Thought
Credit Hours: 3
There are three realms 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 in 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 civilizational 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-haraki – to develop and nurture the students intellectual, cultural and academic u

   DAVA 206 International Organizations & 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 and the issues related to it.
4. Enable the student to understand the role of these organisations and interact with them.

   DAVA 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 means of Islamic Shariah and its comprehensive nature in all matters of life.
3. Nurturing the student to understand with respect to the issues that help in organizing ones life meaningfully.
4. Explaining the characteristics of Islamic institutions and their adaptability, development, comprehensiveness, practicability, middle-coursed nature, fairness, moderation and the ability to safeguard ones freedom and respect for human rights.

   DAVA 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 203 OR ISLA 102

   DAVA 222 Alliance of Civilizations
Credit Hours: 3
This course aims to provide a vision for the possibility of the Alliance of Civilizations, based on the commonalities between nations, societies and civilizations. It will focus on the promotion of common interests between civilizations and coexistence on the basis of mutual respect and understanding of the culture and religions of human civilizations. All this while accommodating the world’s cultural diversity which would help in the building of civilizations and interact between them on the one hand while endeavoring to distance them from sectarian and ethnic conflicts highlighting the pioneer contribution of the Islamic civilization in human progress with emphasis on the values of tolerance and solidarity between peoples.

   DAVA 301 Contemporary issues of Fiqh
Credit Hours: 3
Teach students the permissible and the prohibited matters in social and economic contexts and remove any doubts concerning these aspects.

   DAVA 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 religious traditions.
5. inculcating positive approach towards the “other”
6. Enabling student to understand and appreciate the commonalities and differences between religions.

   DAVA 303 Comparative Mysticism
Credit Hours: 3
1. Importance of the study of comparative mysticism.
2. Introduce the student to the commonalities of human spiritual experience.
3. Introduce to the characteristics of mystical experience.
4. Highlighting the human, intellectual, psychological and ethical dimensions of the mystical experience.
5. Acquiring 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.

   In all this the teacher would pursue a comparative study of the essential religious experiences of world religions.

   DAVA 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. Enables the student to interactively 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.

   DAVA 306 History Of Religion
Credit Hours: 3
Introducing the student to the major religions of the world with respect to their origin, development, sacred scriptures and their modern situation with a solid background on the theological, juristic and major contemporary trends.

   DAVA 311 Dawa in the Modern Age
Credit Hours: 2
Aims at critically analyzing the current state of Dawa movements, trends, individuals and institutions.

   DAVA 312 Dawa Personal & the Society
Credit Hours: 2
Acquaints students with the nature of Dawa Society, its institutions and cultural and intellectual trends, and prepares them spiritually, intellectually and culturally to interact with that society.

   DAVA 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. Introduce the student to the most important movements, institutions, religions and philosophies.
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.

   DAVA 402
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:**

(ECON 4 OR MATH 119) OR COMP F003 AND (COMP 2 OR ENGL 2011) OR ENGL F073

**ECON 103 Principles of Law**
**Credit Hours: 3**


**ECON 111 Principles of Microeconomics**
**Credit Hours: 3**

This course focuses on basic microeconomic concepts enabling the student to supply and demand, market equilibrium, the concept of elasticity, consumer choice, utility, production and costs, the theory of perfect competition, monopoly and monopolistic competition.

**Prerequisite:**

MATH 103 OR Mathematics Placement Test 180 OR ACT 21 OR SAT 500 OR MATH 021 OR MATH F014 OR MATH 004 OR MATH 002 OR MATH 101 OR MATH 119

**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 111 AND ECON 112

**ECON 211 Intermediate Microeconomics**
**Credit Hours: 3**

This course examines theory of choice and its applications, income and substitution effects of a change in price and the compensated demand curve, production and cost with many variable inputs, theory and models of oligopoly, input markets and the allocation of resources.

**Prerequisite:**

ECON 111 AND ECON 112

**ECON 212 Intermediate Macroeconomics**
**Credit Hours: 3**

This course examines the behavioral foundations of consumption: absolute-income hypothesis, relative income hypothesis, permanent income hypothesis and life-cycle hypothesis will be discussed. Other topics covered include consumer behavior of investment: the desired capital stock, the interaction between the multiplier and the accelerator and trade cycles, IS/LM model, labor markets, and balance of payments analysis.

**Prerequisite:**

ECON 111 AND ECON 112

**ECON 214 Monetary Policy**
**Credit Hours: 3**

This course covers the evolution of money. The monetary systems, the financial system, interest rates, commercial banks functions, and their role in the creation of money. The central bank: its role in setting monetary policy and money supply. Money demand, money inflation, and the role of money in economic activity.

**Prerequisite:**

ECON 111 and ECON 112

**ECON 301 Mathematical Economics & Econometrics**
**Credit Hours: 3**


**ECON 302 Economics of Money & Banking**
**Credit Hours: 3**


**ECON 303 Public Finance**
**Credit Hours: 2**


**ECON 305 Economics of Arab Countries**
**Credit Hours: 3**

Economics of Labor & Industry
Credit Hours: 3

ECON 307 Advanced 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.

ECON 312 Macroeconomic Policy
Credit Hours: 3
Macroeconomic tools to analyze policy implications of the simple and multiple regression models, use of mathematical techniques in understanding economic theory; optimization with and without constraints; Kuhn-Tucker conditions and game theory and apply these techniques to microeconomic theory. Other topics covered include linear, nonlinear and dynamic macroeconomic models.

ECON 313 Microeconomic Policy
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 314 International Trade
Credit Hours: 3
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.

ECON 315 International Economics
Credit Hours: 3

ECON 316 Planning & Economic Development
Credit Hours: 3

ECON 317 Project Evaluation
Credit Hours: 3

ECON 318 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 319 Monetary Policy & Foreign Exchange
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, currency futures and swaps and exchange rate forecasting.

ECON 320 Mathematical Economics
Credit Hours: 3
Use mathematical techniques in understanding economic theory; optimization with and without constraints; Kuhn-Tucker conditions and game theory and apply these techniques to microeconomic theory. Other topics covered include linear, nonlinear and dynamic macroeconomic models.

ECON 321 International Finance
Credit Hours: 3
Nature and functions of money, the transaction and asset demand for money, the quantity theories of money, the commercial banking system and non-banking financial institutions, the Central Bank, monetary policy and international money and banking.

ECON 322 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.

ECON 323 Money & Banking
Credit Hours: 3
Nature and functions of money, the transaction and asset demand for money, the quantity theories of money, the commercial banking system and non-banking financial institutions, the Central Bank, monetary policy and international money and banking.

ECON 324 Financial Markets
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.
Industrial Economics
Credit Hours: 3
This course provides an overview of the industrial organization framework, market structure and performance, market concentration, pricing theory and strategy, game theory, innovation and market structure, managerial firms, firm size and diversification, multinational firms and transfer pricing, international organization, vertical integration, technology choice, and industrial policy.
Prerequisite: ECON 111 AND ECON 112

ECON 453
International 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, mechanisms of international payments, and international monetary reform.
Prerequisite: ECON 111 AND ECON 112

ECON 454
Economics of Energy
Credit Hours: 3
This course examines the essential economics of various sources of energy; emphasis given to the demand for oil, supply of oil, fluctuations in oil prices, forecasting oil prices and the role of OPEC. The course also covers other sources of energy, particularly coal, natural gas and nuclear power.
Prerequisite: ECON 111 AND ECON 112

ECON 471
Project Evaluation & Feasibility Study
Credit Hours: 3
Process of evaluating projects and conducting a feasibility study. Market and technical appraisal, financial estimates and projections, financial and economic appraisal of single projects, multiple projects and capital budgeting, and project management are covered.
Prerequisite: ECON 211 AND ACCT 112 AND MKT 115

ECON 472
Managerial Economics
Credit Hours: 3
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, action reaction pricing policies, and capital budgeting and investment decisions and risk analysis will be discussed.
Prerequisite: ECON 111 AND ECON 112

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 483
Environmental Economics
Credit Hours: 3
Examination of the impact of economic growth on the environment. Special attention is directed toward environmental pollution, its causes and remedies; practical examples that demonstrate the impact of pollution on different economic variables.
Prerequisite: ECON 212 AND MAGT 203

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 315 AND EDUC 312 AND EDUC 310

EDEC 411
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 education and well being of the young child.
Prerequisite: EDUC 310 AND EDUC 312 and (EDUC 315 or SPSC 349)

EDEC 412
Community Outreach & Resources
Credit Hours: 2
This course focuses on a study of approaches to family, community, societal, cultural, and ideological support systems in children's growth, learning, and development. It includes an emphasis on how these factors are related in the permissive-restrictive dimensions of child rearing and socialization in broad perspectives across environmental contexts, an examination of resources and systems to address the special needs of families with children who are "at risk" or have disabilities, and review of technological tools used to locate and compile information on community resources.
Prerequisite: EDUC 310 AND EDUC 312

EDEC 413
Integrated math & Science 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 AND MATH 103 AND BIOL 101 OR BIOL 100 AND EDUC 315 AND EDUC 310

EDEC 452
Teaching Reading and Writing 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 explored. This course includes an extensive field-based component.
Prerequisite: EDUC 311 AND ENGL 150 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-week 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.

Prerequisite:
EDUC 310 AND EDUC 311 AND EDUC 313

EDPR 410 Reading and Writing in all Disciplines
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

EDPR 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 AND ARAB 218 AND ARAB 213

EDPR 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 AND ISLA 106 AND ISLA 105 AND EDUC 315 AND EDUC 310

EDPR 448 Teaching Primary Level Social Studies
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 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:
EDUC 312 AND GEOG 110 AND HIST 222 AND EDUC 315 AND EDUC 310

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, forces, 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 AND BIOL 101 AND CHEM 101 AND EDUC 315 AND EDUC 310

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 number, 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 AND MATH 104 AND MATH 103 AND EDUC 315 AND EDUC 310

EDPR 452 Methods in Inquiry & Research
Credit Hours: 2
This course focuses on the candidates’ acquisition of skills to support data collection, analysis, and reflection (action research). The application of qualitative and quantitative research methodologies will be examined. In addition, candidates will learn how to teach and support higher level thinking and inquiry skills in primary level classrooms and how to teach students to design and conduct experiments in science and mathematics. This course has a field-based component.

Prerequisite:
EDUC 312 AND EDUC 315 AND EDUC 310

EDPR 453 Teaching Primary Level English (ESL I)
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 AND ENGL 157 AND ENGL 153

EDPR 454 Teaching Primary Level English (ESL II)
Credit Hours: 3
This course expands upon candidates knowledge the concepts and strategies for teaching beginning EFL/ESL students learned 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:
EDUC 311 AND ENGL 157 AND ENGL 153

EDPR 455 Teaching Primary Level Reading
Credit Hours: 3
This course is a comprehensive reading instruction course based on research 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. This course has a field-based component.

Prerequisite:
EDUC 312 AND EDUC 315 AND EDUC 310

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 significant number of field hours.

Prerequisite:
EDUC 310 AND EDUC 311 AND EDUC 313 AND EDUC 314 AND EDUC 316 AND EDUC 317 AND EDUC 316 AND EDUC 312 AND EDUC 315

EDSE 331 Reading & Writing Across the Curriculum.
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. We will focus on promoting 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.

Prerequisite:
EDUC 310 AND EDUC 320 AND EDUC 312

EDSE 332 Second Language Acquisition in the Secondary Classroom
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 limited language learners. During this course, current and past methodologies for teaching limited language proficiency
EDSE 340 Methods I: Instructional Strategies 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, this is in addition to professional teachers' standards in the State of Qatar. The course provides student teachers 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 questions, 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. This course includes a field-based component.
Prerequisite: EDSE 331 AND EDSE 332

EDSE 341 Methods I: Instructional Strategies for English 
Credit Hours: 3
Candidates will study goals, methods, and materials appropriate for teaching secondary courses in English (ESL, EFL), with special emphasis on the Curriculum Standards of the State of Qatar, English. Students will learn a range of research-based strategies for designing and delivering effective ESI 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 includes a field-based component.
Prerequisite: EDSE 331 AND EDSE 332

EDSE 342 Methods I: Instructional Strategies for Islamic Studies 
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 the 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. This course includes a field-based component.
Prerequisite: EDSE 331 AND EDSE 332

EDSE 343 Methods I: Instructional Strategies for Social Studies 
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 Methods I: Instructional Strategies for Mathematics 
Credit Hours: 3
Candidates will study goals, methods, and materials appropriate for teaching reperatory/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. This course includes a field-based component.
Prerequisite: EDSE 331 AND EDSE 332

EDSE 345 Methods I: Instructional Strategies for Physics 
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 science 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 460 Methods II: Inquiry and 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 skills. 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. This course includes a field-based component.
Prerequisite: EDSE 342
Methods II: Inquiry and ICT for Social Studies 
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. This course includes a field-based component.
Prerequisite: EDSE 344

EDSE 465 
Methods II: Inquiry and ICT for Mathematics
Credit Hours: 3
The course will focus on student-centered methods in teaching mathematics. Special attention will be devoted to technological aids to instruction and hands on mathematics experiences such as computer-aided instruction and mathematics laboratories to stimulate discovery learning. The course will also include the use of action research to inform instruction and strategies to teach, encourage, design, mentor, and assess student research. This course has a field-based component.
Prerequisite: EDSE 345

EDSE 466 
Methods II: Inquiry and ICT for Physics
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. This course includes a field-based component.
Prerequisite: EDSE 346

EDSE 467 
Methods II: Inquiry and ICT for Biology
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. This course includes a field-based component.
Prerequisite: EDSE 347

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 relationships with the local and universal levels and issues directly related to the education such as issues and problems are considered a foundational introduction to understand education issues and topics at the local and universal level. It also aims at helping students acquire the skills of recognition, understanding, analyzing, 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 hummed universal innovations.

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 during different developmental stages. The role of family organizations in helping families address marital issues and problems is also addressed

EDUC 310 
Foundations of Education in Qatar and 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. The course is designed to help students realize that they have also become acquainted with the roles expected they may be expected to play 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 
Applications in Second Language 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 and consider the implications of different perspectives for second language teaching in a variety of contexts.

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 plan an 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 Children
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 literature in the development of children. It also includes the identification, evaluation, and use of different genres of literature in teaching children.

EDUC 314 
Technology for Children
Credit Hours: 3
This course provides an introduction to basic computer operations and technologies, including fundamentals of using a computer, using basic software, accessing and saving data, basic use by children of spreadsheets, databases and word processors. The course will also learn about developmentally appropriate use of technology with children and how to evaluate and select
This course teaches how to integrate the visual arts and media, and schooling in the class.

**Prerequisite:**
EDUC 310 AND EDUC 315 AND EDUC 312

**EDUC 320**
Human Development Credit Hours: 3
This course reviews the literature on child 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 to promote learning. This course includes a field-based component.

**Prerequisite:**
EDUC 310 AND EDUC 312 (EDUC 315 OR EDUC 320 OR SPSC 349)

**EDUC 317**
Inclusive Classrooms Credit Hours: 3
This course focuses on introducing candidates 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.

**EDUC 318**
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.

**Prerequisite:**
EDUC 310 AND EDUC 315 AND EDUC 312 (EDUC 315 OR EDUC 320 OR SPSC 349)

**EDUC 320**
Human Development Credit Hours: 3
This course reviews the literature on child 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 481**
Student 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 482**
Student 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 483**
Student 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**
Student 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.

**EDUC 485**
Seminar in Child Development Credit Hours: 3
This course will provide opportunities for integrating and applying knowledge and skills acquired in the major.

**EDUC 486**
Independent Study Credit Hours: 1
This course will provide opportunities for integrating and applying knowledge and skills acquired in the major.

**EDUC 487**
Field Experience Credit Hours: 1
This course will provide opportunities for integrating and applying knowledge and skills acquired in the major.

**EDUC 488**
Research Seminar Credit Hours: 1
This course will provide opportunities for integrating and applying knowledge and skills acquired in the major.
Electromagnetic radiation and introduction to antenna theory.

Prerequisite:
MATH 217 AND MATH 385 AND PHYS 193

ELEC 312 Electric Machines
Credit Hours: 3

Prerequisite:
ELEC 202

ELEC 313 Electric Machines Lab
Credit Hours: 1
Transformer: Open and short-circuit tests, polarity test, loading 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 Concur.

ELEC 321 Power Systems Analysis
Credit Hours: 3

Prerequisite:
ELEC 202

ELEC 333 Electronics Engineering
Credit Hours: 3
Operational amplifiers 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 Concur.

ELEC 335 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, Sampling, quantization, and pulse code modulation (PCM); time 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 335 AND GENG 200

ELEC 342 Communications Engineering Lab
Credit Hours: 1

Prerequisite:
ELEC 341 Concur.

ELEC 351 Signals & Systems
Credit Hours: 3

Prerequisite:
ELEC 201

ELEC 352 Control Systems
Credit Hours: 3

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 interface. Programmable peripheral interface (PPI). Serial I/O interfacing and UART. Hardware interrupts, basic interrupt interface and programmable interrupt controller (PIC). Direct memory access (DMA).
Prerequisite: ELEC 262

ELEC 365 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 Concur.

ELEC 366 Embedded Systems
Credit Hours: 3
An introduction to microcontroller architecture, instruction sets, C 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 GENG 106 AND ELEC 262

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 Concur.

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 Concur.

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; Pattern classification and diagnostic decision; Lab experiments.

Prerequisite: ELEC 361 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 short presentation.

ELEC 415 Power Electronics & Drives
Credit Hours: 3

Prerequisite: ELEC 312 AND ELEC 333

ELEC 416 Selected Topics in Electric Machines
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 Advanced Power System Analysis
Credit Hours: 3

Prerequisite: ELEC 321

ELEC 423 Electric Power Distribution 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 Selected 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 Selected 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 Selected Topics in Communication 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 Advanced 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 for regulators design, state observer design, and linear
optimal control design. Properties of nonlinear systems, Lyapunov stability, and nonlinear control system design. Introduction to 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 Selected Topics in Control System / Signal Processing 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 481 Power Electronics and Renewable Energy Credit Hours: 3
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 control. Renewable energy sources: Solar energy, Wind energy systems, and fuel cells. Renewable energy source modeling and interfacing. Renewable energy sources in 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 Electronics
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 energy 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 drive 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 elaborated. 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 Advanced Biomedical Systems 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 Biomedical Engineering
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.

ELEC 498 Senior Design Project I
Credit Hours: 3
The main Objective of the project is to train the student on how to tackle a specialized topic in the electrical
enough. The topics are normally chosen by the department faculty members. The student is required to demonstrate his ability to: conduct a literature survey; perform the relevant calculations and implement his design. A well-referenced report constituting a theoretical background, design, theoretical results, conclusions and recommendations has to be submitted by the end of the project.

ELEC 499 Senior Design Project II
Credit Hours: 3
Continuation of ELEC 498.
Prerequisite: ELEC 498

ENGL 099 Language Skills I
Credit Hours: 3
The course is designed to develop the students listening comprehension, pronunciation and speaking skills. It aims at increasing the student's fluency, accuracy and confidence in dealing with listening and speaking materials and situations.

ENGL 100 Language Skills II
Credit Hours: 3
The course is a continuation of language skills (1) and provides practice in listening comprehension and speaking skills at a higher level.

ENGL 110 English I
Credit Hours: 3
The course is designed to introduce students to the process of reading and oral communication. It provides the students with a wide range of reading and oral communication skills/strategies that help them become efficient readers and speakers of English. The course focuses on reading comprehension and vocabulary development in the context, listening comprehension, pronunciation and speaking skills. Course material and textbooks will be selected to reflect the pedagogical content of the course.

ENGL 111 English II
Credit Hours: 3
This course is a continuation of English (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.

Prerequisite: ENGL 110 OR ENGL 202

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.

Prerequisite: ENGL 110 OR ENGL 124

ENGL 113 Grammar II
Credit Hours: 2
This course continues Grammar (1) examination in addition modality, negation, mood, focus, aspect and major and collocational properties of phrasal verbs. The students are also encouraged to practice question formation.

Prerequisite: ENGL 110 OR ENGL 124

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, developmenal 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 paragraph or organizing ideas into clearly stated themes, 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 appropriate 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 Advanced Reading 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 help 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 analyses of 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 developing 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 203

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 Introduction to Literature II

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This course builds on knowledge and skills gained from ENGL 156. It surveys literature from the eighteenth century to the present. Students will learn about the rich canonic tradition and how each generation of writers has responded to it. The course will help students to learn key theoretical approaches and instil some of the essential skills they need for their undergraduate programme.

**Prerequisite:** ENGL 156 OR ENGL 248

**ENGL 200**

**English Language I for Arts Shareea Edu**

Credit Hours: 3

This course is designed to enable students who have completed secondary school English to consolidate basic spoken and written communication skills. The course primarily employs a communicative, task-based approach. Students are encouraged to become independent language learners and apply critical thinking skills towards a variety of motivating themes. Course activities include listening to authentic dialogues, table/data completion, acquiring vocabulary, group discussions, and paragraph and/or text writing.

**Prerequisite:** ENGL 200

**ENGL 201**

**English Language II for Arts, Shareea and Education Credit Hours: 3**

This course is designed to enable students who have completed ENGL 200 to use English effectively for communicative purposes. It offers the opportunity for students to further develop their language skills: listening, speaking, reading, and writing in a systematic way and in connection with the course. In this course students are encouraged 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**

**English Language I Post Foundation 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 required in ENGL 2. Emphasis is placed on understanding information from authentic texts. Academic skills introduced in English 2. Emphasis is placed on prepared for the more advanced writing and research skills. This course builds on knowledge and skills gained from ENGL 2. Students will learn to read and think critically. Students will learn to use the library and appropriate online resources to find and evaluate sources to inform, develop and support their ideas in term paper writing.

**Prerequisite:** ENGL 202

**ENGL 208**

**Literary Criticism Credit Hours: 3**

This course introduces the concept of literary criticism, the history of theorizing about literature, and the diverse views on the role of literature and its relation to life and society. This course will chart the history of these attempts from Plato to the present, and the subsequent rise of literary theory. Along with studying the main schools of criticism, this course will integrate practical or applied criticism by using a shared text to ground our knowledge within a literary context.

**Prerequisite:** ENGL 158 OR ENGL 248

**ENGL 209**

**Language and Society 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 in the unifying the separatist functions. The nature of the course calls for encompassing themes from social psychology, communication, semantics, pragmatics, and language planning. This 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 157 OR ENGL 372

**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 diverse versions of American identity as we 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.

**Prerequisite:** ENGL 158 OR ENGL 248

**ENGL 226**

**History of English Language Credit Hours: 3**

This course aims at familiarizing the students with the basic relationship between linguistics, computing, and cognitive sciences. Students are introduced to

**Prerequisite:** ENGL 157 OR ENGL 373

**ENGL 230**

**Professional Writing Credit Hours: 3**

This course teaches how to write for audiences and in a variety of professional contexts. Students will learn to plan, organize, and deliver effective business communications, including formal letters, memos, proposals, reports, presentations, and resumes. Students are encouraged to focus coursework and projects on prospective careers. Through both collaborative and individual projects, students will engage with practical and theoretical problems of communicating in the complex professional environments of the global, 21st century workplace.

**Prerequisite:** ENGL 153

**ENGL 233**

**Language and Computers Credit Hours: 3**

This course aims at familiarizing the students with the basic relationship between linguistics, computing, and cognitive sciences. Students are introduced to
the concepts on natural language processing (NLP), particularly the computational models pertaining to the structure and function of language, its use and its acquisition. Students will also have the chance to study the logic behind many of the computer applications they use including speech recognition and natural language generation. Problems of lexical and syntactic ambiguity are studied in depth and the difficulty they pose in NLP will be highlighted. Other applications such as spelling and grammar checkers, spam handling, text–to–speech and speech-to-text, parsing, machine translation, etc. will be approached from a functional angle. The course does not require any background in programming although knowledge of one or more programming languages is helpful. The course is suitable for linguistics students aimed to enrich their

ENGL 249
English Phonetics and Phonology
Credit Hours: 3
This course introduces students to basic practical and descriptive levels of the English sound system and how to use this knowledge in different contexts. The course covers the phonetics of everyday English, with a focus on the sounds that make up the language, their production, and the rules that govern their use in speech. It also covers the phonology of the English language, focusing on the structure of words, phrases, and sentences. The course also includes an introduction to the study of language in its various forms, including grammar, syntax, and semantics. Students will learn to identify and analyze the sounds of English and to describe the phonetic and phonological features of the language. They will also learn to recognize the phonetic and phonological differences between sounds in English and other languages.

Prerequisite:
ENGL 111 OR IBLT 061 OR CBT 173 OR IELT 5.5 OR T02 500 OR ENGL 203

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 on the effective use of language in written and oral communication. It provides students with the opportunity to learn and practice higher level reading and writing skills to prepare them for both college level and future work demands. Diverse authentic academic texts, different levels of language proficiency, and a wide range of topics are incorporated in writing times so that students are challenged to think critically and creatively. The course includes a diverse range of activities from authentic texts, including reading, writing, editing, and criticizing. Students will also work in small groups to develop their writing skills. The course will culminate in a final writing assignment where students are required to take on a role in a business case study. Students are encouraged to use their own opinions in order to maximize independent learning.

Prerequisite:
ENGL 250

ENGL 252
English for Communication
Credit Hours: 3
This course is designed to help students develop the skills necessary to communicate effectively in English. It focuses on the development of skills in listening, reading, writing, and speaking, with an emphasis on functional communication in a variety of contexts. The course provides students with opportunities to practice and develop their language skills through a variety of activities, including reading, writing, and speaking, and by discussing and reflecting on the material covered.

Prerequisite:
ENGL 250

ENGL 253
English Communication for Law
Credit Hours: 3
This course introduces students to the study of language in its legal context, focusing on the use of language in legal discourse. Students will learn about the role of language in the legal system, the use of legal language in different contexts, and the effect of language on the legal process. The course also includes an introduction to the study of law in its various forms, including law and society, law and politics, and law and culture. Students will learn to identify and analyze the legal language and to describe the phonetic and phonological features of the language. They will also learn to recognize the phonetic and phonological differences between sounds in English and other languages.

Prerequisite:
ENGL 250

ENGL 301
Syntax
Credit Hours: 3
This course introduces students to the study of the syntax of human language and the methods of syntactic analysis. We begin with a consideration of fundamental syntactic notions about the form of human language and general syntactic categories, and move towards the development of formal techniques for classifying syntactic units: words, phrases, and clauses. The course will also treat the concept of structure, how it is formed, assigned, represented and tested. We will follow this by examining major syntactic processes. Lectures, discussions, group presentations and exercises will be the main learning vehicles in this course.

Prerequisite:
ENGL 157 OR ENGL 373

ENGL 302
Comparative Literature
Credit Hours: 3
Comparative literature is the critical study of literature dealing with two or more literatures. It studies how different cultural, linguistic, or national origins influence literature. This course introduces students to the theory and practice as well as to the recent developments in this field. In addition to enhancing their command of new developments in critical theory, this course will enable students to transfer the skills they learnt in English and American literature to other literatures, and particularly their own literature.

Prerequisite:
ENGL 158 OR ENGL 248

ENGL 303
Sociolinguistics
Credit Hours: 3
This course introduces students to the study of language in its social 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 and/or language varieties? b) Who do they use them with? c) Why do some forms or languages ‘win over’ some others? Topics include sociolinguistic variation, politeness, social identity construction, and language contact.

Prerequisite:
ENGL 157 OR ENGL 373

ENGL 304
Shakespeare
Credit Hours: 3
This course will introduce plays and a narrative poem from Shakespeare’s career as chief dramatist for The Lord Chamberlain’s Men and, later, The King’s Men. 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 favor a 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; also, to identify these issues, the class will examine domestic and political tyranny, revenge and moral redemption.
ENGL 305  
First Language Acquisition  
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, reciprocal obligation; revenge and moral redemption.

Prerequisite: ENGL 157 OR ENGL 373

ENGL 306  
Medieval Literature  
Credit Hours: 3  
This course introduces students to the main canonical works of the medieval period (approx. 12th – 15th century) as well as the necessary historical background information—the religious & socio-cultural scene—to contextualize such works. It will focus on the poetic genre, the Arthurian legend, and Chaucer, with only quick survey reference to other genres like Morality drama (e.g. Everyman) and travel literature (e.g. Mandeville’s Travels). Selected texts for close study will be in modern translation.

Prerequisite: ENGL 158 OR ENGL 248

ENGL 307  
Psycholinguistics  
Credit Hours: 3  
This course introduces the study of language and mind. It covers the main areas of this subfield: language processing, inattention and issues regarding the nature of mind as a theoretical construct and as a way of talking. The course deals with the ways various kinds of evidence are marshaled in support of different mental models of language. 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 373

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 production, 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 genres and examines poets at the juncture 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 332  
The Novel  
Credit Hours: 3  
This course introduces 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 components of the course. Students are required and 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 probed 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 nineteenth and twentieth century.
and provides the students with close reading of selected novels. In exploring the stories of these books through the eyes of the storytellers, we will learn more about both the stories themselves and the narrators’ biases, vision, ‘world view’, agendas, or simply the lens through which they perceive the world.

Prerequisite: ENGL 158 OR ENGL 248

ENGL 357 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 morphology, it examines the structure of English words and the processes that generate them. In syntax, it explores the structure and parts of sentences. For semantics, topics include meaning relations between lexical items, semantic concepts including sense relations, prototypes, semantic fields, idiomatic expressions, and the relationship between word meaning and sentence meaning.

Prerequisite: ENGL 157

ENGL 370 American Literature
Credit Hours: 3
This course aims to introduce students both to major themes and ideas in American literature and to significant American authors. Issues to be dealt with will include slavery, the idea of the frontier and the development of a national identity. Example s of 19th and 20th century poetry and fiction will be taken from such authors as Dickinson, Twain, Hawthorne, Poe, Fitzgerald, Whitman, and Melville.

Prerequisite: ENGL 248 OR ENGL 156 OR ENGL 215

ENGL 373 Introduction to Linguistics
Credit Hours: 3
The course deals with the levels of linguistic analysis: phonetics, phonology, morphology, syntax, and semantics. Data from numerous languages are used to introduce the students to the methods of analysis in phonology and morphology, but English is used to exemplify syntactic analyses and hypotheses, and semantic concepts. Extensive use of practical exercises will help the students to understand theoretical notions and learn how to approach language in a scientific way.

ENGL 375 Poetry
Credit Hours: 3
This course has two objectives: to familiarize students with critical terms required for the analysis of poetry and to introduce them to poetry written in English from the Medieval through the Romantic Period. The course includes discussion of the genres of poetry, such as the folk and literary ballad, lyrical verse, the sonnet, satire, and ode.

Prerequisite: ENGL 248 OR ENGL 156

ENGL 390 Sociolinguistics
Credit Hours: 3
The course provides an introduction to language in its social context, focusing on uses and users of language. Topics include: social class, ethnic group, gender, language attitudes, bilingualism, language contact, and dialects.

ENGL 393 Twentieth Century Literature
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, intellectual and ideological contexts. Combining approaches to the experimental form of both poetry and prose, the course will encourage students to relate the aesthetic concerns of modernist writers to aesthetic trends in the period more generally. Writers from the modernist 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 intertextuality, metafiction, selfreflexivity, parody, pastiche and collage. We will also take an international perspective, reflecting modernism’s own transatlantic cosmopolitanism. Key concepts such as intertextuality, metafiction, selfreflexivity, parody, pastiche and collage. We will also take an international perspective, reflecting modernism’s own transatlantic cosmopolitanism. Key concepts such as intertextuality, metafiction, selfreflexivity, parody, pastiche and collage.

Prerequisite: ENGL 158 OR ENGL 248

ENGL 400 Women’s Literature
Credit Hours: 3
This course offers a survey of 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 OR ENGL 246

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 work and screen, focusing on the theories of adaptation, theoretical trends in the humanities, and the problem of turning texts into moving images. The course provides a theoretical introduction to questions of representation and issues of iconology, 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

ENGL 403 Field Methods
Credit Hours: 3
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 demonstrate their destabilizing rhetorical and visual effects. The course will include a discussion of a number of literary concepts such as intertextuality, metatext, selfreflexivity, parody, pastiche and collage. We will also...
ENGL 158  OR ENGL 248

Prerequisite:

ENGL 408

Post-Colonial Literature
Credit Hours: 3

This course introduces a clear definition of the field and an extensive historical 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

ENGL 423 Seminar in Linguistics
Credit Hours: 3

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 presentations will be based on their critical response papers 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 twentieth centuries. Selected texts of European and American drama are studied not only for their aesthetic traits but also for the ways they illustrate individual disillusionment with ideals and their relationships to society and culture. Modern drama illustrates individual disaffection 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 an issue is presented and discussed in 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 Depart.

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 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.

Prerequisite:

ENGL 373 OR ENGL 310

ENGL 444 Seminar in Lang & Linguistics
Credit Hours: 3

This seminar allows students to specialize in one of several areas of language and linguistics. Coming to the seminar 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 exposure 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 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 plays. No writer has indeed surpassed Shakespeare in capturing the essence of evil. Shakespeare’s great evildoers—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 \textit{art} and as living goals, methodology, and critical analysis of results are highlighted.

ENGL R100 Developmental English

Credit Hours: 3
The course ENGL R100 prepares students with lower English proficiency levels for English 110. Methodologies are used that allow all four-language skills to be accessed and practiced through rich and interesting activities that engage the learners’ fieldtrips that contextualize concepts and allow learners access to authentic language are offered to reinforce the themes of the units. Tasks, tests and exams are used to evaluate the students’ attainment of outcomes during and at the end of the course. EngR100 is taken as Pass/Fail. Students must achieve 70% or more in the course in order to pass.

EPSY 201 Introduction to Psychology

Credit Hours: 3
The course provides students with introductory knowledge and skills about the basic principles, methods, and areas of psychology, such as learning, memory, emotion, perception, physiological, developmental, intellectual, social, and abnormal. The aim of this course is to provide students with a basic overview of psychology as behavioral science and to help them develop a more comprehensive and accurate understanding behavior.

EPSY 205 Social Psychology

Credit Hours: 3
Social Psychology is the scientific study of the way in which people think, feel, and behave. The course will focus on three major categories: (a) thinking about the self and others, (b) evaluating persons and relationship, and (c) interacting with other people.

Prerequisite:
ENGL 248

ENGL 499 Capstone (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. 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.

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 101 OR MATH 101 AND (MATH 119 OR INTA 102) OR MAGT 112

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 200 OR STAT 155)

FINA 303 Financial Markets & Institutions

Credit Hours: 3
This course examines the operations, mechanisms 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
This course examines the operations, mechanisms and structure of the financial system. 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 307 Financial Institutions Management

Credit Hours: 3
This course examines the operations, mechanisms and structure of the financial system. 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 308 Financial Management

Credit Hours: 3
This course examines the operations, mechanisms and structure of the financial system. 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 309 Financial Accounting

Credit Hours: 3
This course examines the operations, mechanisms and structure of the financial system. 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)
State of Qatar.

Prerequisite: FINA 114

FINA 324 International 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 406 Management of Financial Intermediaries
Credit Hours: 3

This course covers financial management of deposit and non-deposit-taking financial institutions. The course aims to have students understand and appreciate the conceptual, strategic, and risk management issues involved in managing financial intermediaries in general and banks in particular, and understand the impact of interactions of business areas on financial performance. Topics include the role and the activities of depository financial institutions, performance measurement and evaluation; asset/liability management for liquidity risk, credit risk, interest rate risk; and regulation of depository institutions.

Prerequisite: FINA 302

FINA 410

Financing for Entrepreneurial 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 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 details 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: FINA 212

FIQH 101 Introduction to Fiqh
Credit Hours: 3

This course aims to acquaint students with Islamic jurisprudence, its sources, terminology, domain, rules, theories, schools, stages of development. It introduces definitions of Shari’a 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
disagree 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, kind 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
generation 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 types of divorce and depuniting in
divorce repudiation (divorce for monetary compensation)
separation for maltreatment, separation for indigence,
separation for curing one another, separation for apostasy
and the consequences thereafter such as the recess,
alimony, housing, legitimacy of parentage, nursing and
custody and the consequences 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,
rules 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
money in need, and the zakat of shares and bonds, how
To invest revenues of zakat. In this course, students get to
"make to order" contracts, construction contracts and
insurance contracts for insuring goods, jewelry, mineral,
stocks, bonds, and banks, and the rules of the Waqf and its role in Takafal and Islamic insurance.

FIQH 303
Fiqh of Zakat and Awqaf
Credit Hours: 3
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,
minerals, stocks, bonds, and banks, and the rules of the
Waqf and its role in Takafal and Islamic insurance.

FIQH 304
Islam Ruling and Implications
Credit Hours: 3
This course deals with the Islamic ruling in terms of
definition, divisions, the act, the subject, and examines
the text for understanding the text, such as the general
word (al-amm), the specific word (al-kass), indeterminate
word(multaq), particular word (muqayyad), explicit
meaning (muhkam), implied meaning (muhfrad), plain
meaning of the text (Ibarat al-Nass), connotation of the text
(Sharat al-Nass), implication of the text (Dalalat al-Nass)
interpretation and the concept.

FIQH 305
Introduction to Islamic Fiqh
Credit Hours: 3
This course is designed as an introduction to Islamic
jurisprudence, demonstrating its characteristics,
importance, various historical stages, sources, schools of
thoughts and various critical terminologies. It also examines
the most important theories of jurisprudence, and the
challenges faced by Islamic jurisprudence in the present
time, as well as how to develop and promote it.

FIQH 314
Penal Fiqh I
Credit Hours: 2
This course aims to acquaint students with the method
of Islam in preserving human life by promulgating retribution,
through studying the concept of felony in Sharia and in
law. The course expounds the types of felonies against self
such as homicide, manslaughter (accidental homicide)
and the basis of each. Students get acquainted with the
provision of retribution and felony against other than self
and the consequences of that. The course acquaints
students with blood money, atones their legitimate
requirements and conditions; comparing that with possible
law as possible.

FIQH 315
Contemp Fin Transactions
Credit Hours: 3
This course deals with modern financial transactions
not known in the past. These transactions include moral
rights, usufruct ownership, commercial insurance, (commercial
insurance, cooperative insurance, and reinsurance)
and the Islamic substitute to commercial insurance.
The course also discusses the problems of money, the problems
of inflation, international financial markets, stock markets
and their rules. It also deals with the transactions of Islamic
Banks such as deposits, money transfer, and letters of
guarantee, letters of credit, and profit sharing in order of
purchase and decreasing partnership.

FIQH 317
Commercial Fiqh IV
Credit Hours: 2
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, security of self, security of property and their
modern application.

FIQH 318
Contemporary Issues of Fiqh
Credit Hours: 3
This course includes the solutions that Sharia offers
to modern issues. It also contains the stance of Islam
from the financial and economic point of view and.

FIQH 319
Fiqh of Procedures
Credit Hours: 3
This course is designed to elaborate the concept
of judiciary in Islam, the theory of justice, the ethics
of the judge and its authority. The course also deals with
the most important books in this field and sheds light on the elements and conditions of the case, the
claimant and the defendant, status of the judge and semi
judiciary.

FIQH 320
Legal Theory II
Credit Hours: 3
The course aims to promote students ability to analogically
relate secondary rules to principles in cases where there is
no explicit provision. The course enables students to know
the method of inference using nonconsensual evidence.
Students will be able to define juridical analogy and explain
its basis and subdivisions, and the conditions of validity
of each claim to evidence. The course acquaints students
with sources whose claim to authority lacks consensus
among Muslims. These sources are al-Mas'udi al-Mursali,
Custom, Equity, Public interest and presumption of
continuity “alistishab”.

FIQH 321
Legal Theory III
Credit Hours: 3
The course aims to deepen the knowledge of students
about the scriptural sources to Sharia rulings, so as to
analyze texts to relate offshore to roots. The course
promotes students' mastery of legal analysis to gain
rigor in judgment, by studying the Holy Qur'an and
the suna and by knowing injunctions, prohibitions, the
universal, the specific, and the particular. This course
enables students to know the semantics of utterances by
expression, by reference, by implicature and how clear
or obscure these utterances are. This course enhances
the abilities of students to know which utterance refers
to the specific, the universal, 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.

FIQH 325
The Philosophy of Islamic Law
Credit Hours: 3
The course covers the meaning of philosophy of legislation
elaborating on the establishment of the Islamic rules on
the anthropological, ethical, and theological reasons and
the infinite importance of worship in the legislation, also shedding light on the philosophy of the Legislation as a Whole as well as each
part of the ruling in Islamic Sharia.

FIQH 402
Companies, Documentation and Donations
Credit Hours: 3
The course covers the nature of companies and its general rules, its different kinds such as sharikat Anan, Sharikat wujoosh, Sharikat Amaal, Mudaraba, Musahama, Tadamun Tawsiya and the nature of the authentications such as Rahn, Kafa, Hawala, and the nature of the donations such as Heba (gift), Aariya (borrowing), Waqf (Endowments) and Qari (Loan).

FIQH 403
Fiqh of Inheritance & Bequest
Credit Hours: 3
This course is designed to study the Islamic system of Inheritance, its causes and impediments, and elaborates on the inheritors (Waratha), Residuary (Al-Asaba), Exclusion (Al-Hasj), return (Al-Rad), Devolotion (mahn) by a successor (Al-Takharuj), increase (Al-Awi) and inheritance of the pregnant, missing persons and prisoners. It investigates the meaning of the Will, its elements, conditions, terms and the act of leaving more than one will and compulsory wills.

FIQH 415
Islamic International Law
Credit Hours: 3
The course covers the definition of International Law, its advantages, themes, emergence and development and a comparison between International law and contemporary international law, elaborating international relations in Islam in situations of war and peace and elucidates upon Neutrality and Isolation.

FIQH 416
Fiqh Theories
Credit Hours: 2
This course includes the importance of a juridical theory, its conception, development, history and present state. The course studies the theory of necessity, the theory of right, the theory of norms, the theory of arbitrary use of right, and the theories of invalidity and unsoundness.

FIQH 417
Oaths, Vows, Atonement & Food
Credit Hours: 2
This course aims to acquaint students with the ruling of self-imposed obligations (faith/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.
Prerequisite: FREN 100

FREN 222 French Composition II
Credit Hours: 3
This course develops and refines written expression through a review of complex grammatical structures and idiomatic expressions. Students practice guided compositions and creative writing using factual reporting techniques and literary models. Students will improve their written French and gain advanced training in comparative grammar and organizational structures. Students will be assessed on their ability to write fluently in French a variety of paragraphs and narratives. By the end of the course students will be able to create elaborated utterances in French and group them into paragraphs and narratives.

Prerequisite: FREN 221

FREN 311 Introduction to French Literature
Credit Hours: 3
FREN 110

FREN 321 Business French
Credit Hours: 3
This course focuses on introducing functional language skills in the world of French business and business cultural competence. Students will be given further practice of specialized oral and written communication, as well as developing a commercial vocabulary and business situations with the varied activities of a commercial firm (for example, advertising, transportation, banking). The course provides students with simulated business situations and exposure to authentic spoken materials, as well as teaching them the rules and formulas of formal business correspondence. Students will study the economic and business environment, and learn key technical terms and useful idiomatic expressions.

Prerequisite: FREN 110

GENG 106 Computer Programming
Credit Hours: 3
This course introduces the student to computer concepts, control structures, arrays, single and multi-dimensional, and string processing found in C++. The course also examines input/output statements including data I/O, arithmetic, logical and comparison operators, along with an introduction to classes.

GENG 107 Engineering 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.

GENG 111 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 standar-ds, 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 200 Probability and Statistics for Engineers
Credit Hours: 3

Prerequisite: MATH 101

FREN 231 Materials Science
Credit Hours: 3

Prerequisite: MATH 101 AND CHEM 101

FREN 321 Technical French
Credit Hours: 3
This course provides students with the opportunity to correct defects in pronunciation and intonation and give them a better understanding of the differences between the French and English sound systems.

Prerequisite: FREN 100
diverse human phenomenon on the globe. Atmosphere cover: origin, components, layers, pollution sources and the future. Solar and ground radiation, temperature, air pressure, wind, evaporation, condensation, rainfall, air masses, air depression, tropical cyclones. Climate classifications and regions Climate in the State of Qatar.

GEOG 243 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). Principles 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 digital color films) and non-photographic medium. Aerial photography (simple instruments, processing non-color, color, and infrared films). Remote Multispectral Scanner (MSS), Thermal Scanners (TS), Thematic Mapper (TM). Microwaves sensors (including radar and radiometer). Mathematics of aerial photography: measuring elevation from paired/overlapped photographs, relief displacement, aerial photograph interpretation.

GEOG 300 Geography of Arab World Credit Hours: 3
This course includes an introduction to Arab World. It covers a physical study of the Arab World, introduction to the geographical position and its spatial characteristics, international geopolitical situation, structural geology, the geographical position and its spatial characteristics, Introduction to Arab World. Credit Hours: 3

GEOG 411 Geography of Qatar Credit Hours: 3
This course aims at providing the students with insight into the effective factors in the geography of Qatar, methods of investigation and analysis. Additional goal is to highlight the mutual relationship among the natural, human and economic elements that affects the geography of Qatar and how these various elements interrelated to create unique features of Qatar's geography. The course includes the following topics:
- Natural elements which comprises the study of climate, soil, natural habitat and water resources.
- Human elements which include the study of population.
- Economic elements which focus on the agricultural, gas and oil production, industrial development, trade, transportation and tourism; analytical study of the future perspective of the industrial development and gas economy with focus on the population crisis and the role of the GCC.

GEOG 442 Environment & Pollution Credit Hours: 3
This course aims at studying the global environmental systems and the imbalance these systems are facing. The course includes the following 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 and the environmental imbalance.
- The third part: 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.

This course includes three parts:
- Human elements which include the study of population, resources, socio-economic structures and development of drinking water.
- Natural elements which comprises the study of climate, soil, natural habitat and water resources.
- Environmental components and the living species.

GEOG 448 Historical Geography 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 analytical aspects. It starts with an introduction to the purpose, branches, development, evolution, character of water, typology, general hydrological cycle. Continental waters: rivers, lakes, swamps, and groundwater. Seas and oceans and Water usage Non-conventional drinking water resources: desalination, recycled water, seawater, bottled water, cloud seeding, fog, icing. Water scariness: causes and ways to enface it. Meets to control water demand: juridical tools, technical tools, economic tools, social tools, decision making and management. Water pollution and filtering ways. Water jurisdiction. Styles and approaches of drinking water management. Sustainability issues and development of drinking water. Water resources in the State of Qatar

GEOG 711 Principles of Paleontology Credit Hours: 3
Definition, stratigraphic methods in historical geology, paleontologic methods; definition of fossils and modes of fossilization, paleontological studies of protozoans (foraminifera-radiolaria), sponges, coelenterata, graptolites, and general life of the Paleozoic, life of Mesozoic, and Cenozoic.

GEOG 303 Sediment & Sedimentation Credit Hours: 3
Introduction, sedimentary cycles, clastic rocks, carbonate rocks, evaporites, sedimentary rocks, silicious sediments, phosphates, depositional environments: continental, mixed and marine, sedimentary basins, sedimentology and tectonics, economic mineral deposits.

GEOG 321 Structural Geology and Geotectonics Credit Hours: 3
Evolution of Earth through geologic time, internal structure of the Earth, continental drift theory, isostasy, current paleoclimates, sea floor topography, plate tectonics, ocean-floor spreading, hot spots, major plate boundaries, economic implications.

GEOG 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 level for geological surveying and mapping; identification of geologic structures in the field.

Use 100) OR TOEFL_Inst Testing Prog 500  OR TOEFL Internet-based Test 061 OR TOEFL Computer-based Test 173 OR Int. Eng Lang Test SYST-IELTS 5.5 OR ENGL 004 OR ENGL 111 OR ENGL 250 OR ENGL 201 OR ENGL 202
Spectrum and basic spectral properties of Earth features. Methods for aerial image acquisition, electromagnetic

Credit Hours: 3

Photogeology & Remote Sensing

Prerequisite: GEOL 101

GEOL 401

Geochemistry

Credit Hours: 3

Introduction, earth spheres, meteorites, distribution of elements, earth structure, geochemistry of igneous rocks, metamorphic rocks, sedimentary rocks, hydrosphere-environment geochemistry.

Prerequisite: GEOL 101

GEOL 403

Economic Geology

Credit Hours: 3

Introduction, classification, ores of igneous rocks, ores of metamorphic rocks, ores of sedimentary rocks, metallogenic provinces, exploration techniques, mineral wealth.

Prerequisite: GEOL 101

GEOL 413

Geology of Arabian Peninsula and Qatar

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 Sensing

Credit Hours: 3

Introduction to photographic principles, equipment, materials and methods for aerial image acquisition, electromagnetic spectrum and basic spectral properties of Earth features and atmospheric interaction, aerial photo geometry and mapping.

Prerequisite: GEOL 101

GEOL 432

Geology of Petroleum

Credit Hours: 3

Introduction, historical background, relation of petroleum geology to other sciences, physical & chemical properties of petroleum, generation and migration of oil, the reservoir, traps and seals, reserve estimation.

Prerequisite: GEOL 101

GEOL 434

Hydrogeology

Credit Hours: 3

Introduction to hydrogeology, evaporation and precipitation, runoff and streamflow, soil moisture and groundwater, principles of groundwater flow, Geology of groundwater occurrence, geology of groundwater flow to wells, regional ground water flow, water chemistry, water quality and groundwater contamination, groundwater development and management.

Prerequisite: GEOL 101

HIST 103

An Introduction to History

Credit Hours: 3

This introductory 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. It also focuses on the development and formation 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 ancient times to the contemporary period, 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 writing of 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 /1517CE.

It begins with the liberation of Jerusalem by Salah al-Din, then it goes to critically analyse the situation 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 1258 CE, which resulted in ending the Abbasid Caliphate. The course ends with the decline of the Mamluk state at the hands of the Ottomans.

Prerequisite: HIST 111 OR HIST 262

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 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 220

Epidemics Diseases in World History

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 other civilizations, and its contributions to the world culture. 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.

This course is open to students planning to major in humanities. Students do not need a background in science, medicine, or history to take this course.

HIST 222

The Gulf in Modern Period

The Gulf in Modern Period
This course is designed to provide the students with the necessary information that would 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 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, social, economic, and intellectual Revolution, Romanticism and Realism, nationalism, feminism, imperialism and colonialism, World War I and II, and the Cold War era.

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
Credit Hours: 3
Sources of Greek and Roman History, the Homeric Period, Greek Colonization and its Results (8th Century-6th Century B.C.), Development of Greek City- states to the End of the 6th Century B.C. (Sparta and the Peloponnesian Alliance, Athens, and evolution of its systems), Persian 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 Rome-Carbage Conflict, Roman Policy towards the Eastern Provinces, Revolution, Civil War and Fall of the Republic, Rise of the Empire, Roman Rule in the East up to the Early Imperial Period.

HIST 314
Economic & Social History of the Muslim World Credit Hours: 3
In this course, the students will study Islamic society's relationship with its neighbours during the modern period, beginning with the rise of Islam and its impact on the Arabian Peninsula, the 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 Asian Relations in modern and contemporary History
Credit Hours: 3
This course is designed to help the students understand the nature 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 early contacts beginning with the sixteenth century commercial exchange; the economic activities associated with pearl trade; Gulf presence in India; and the impact of European colonialism on the relationship between the two regions.

HIST 324
Economic History of the Gulf
Credit Hours: 3
This course is designed to provide the students with the necessary information that will help them understand the main themes and dynamics in the political economy of the Gulf at domestic, regional and global levels; with special attention to the impact of oil, the question of rentierism, different economic models, labour integration, the Gulf's changing place in the global economy and the question of reform.

HIST 331
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’ ideology, Muslim response to Christian military attacks, Muslim awakening and role in liberation of their lands.

HIST 320
History of Islamic Sects and Movements
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 Fitna between 307/40 A.H. The course also sheds light on the crystallization of the nation of state (Ahlal’khamsa); 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
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 exam reactions, as well as class presentations that emphasize critical thinking, writing and communication skills.

HIST 333
The Renaissance and Reformation, 1400 to 1648
Credit Hours: 3
This course examines the intellectual and cultural developments in Italy and Northern Europe; the origins of the Protestant Reformation and its impact. Counter/Reformation; European interaction with Africa, Asia and the Americas; the decline of feudalism and the rise of the nation state; the Peace of Westphalia. Course assignments include research paper, reaction papers, as well as class and group presentations that emphasize critical thinking, writing and communication skills.

HIST 334
Arabian Gulf in Antiquity Credit Hours: 3
During the past five decades, archaeological evidence from the Arabian Gulf region was accumulated as a result of intensified foreign exploration and excavation, which is still ongoing in many areas of the Gulf. Therefore this course provides background knowledge of archaeology in the Arabian Gulf from Prehistory to the Islamic period. This course will explore the role played by Arabian Gulf societies in trade between Mesopotamia and the East, particularly during the Bronze Age.

HIST 336
Women and Gender in the Ancient Near East 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, Ancient Greece, and Rome; and the process of the Middle Ages in the Islamic and Eastern World. Through a topical approach, the emphasis is placed on the variety of ancient women's experiences. Reading material includes translations of primary sources; pictorial and archaeological evidence will likewise be at the center of class discussions.

HIST 337
The Age of Absolutism and Revolution, 1648 to 1815 Credit Hours: 3
This course examines the major trends in political, social, intellectual, and cultural history of Europe during the period of 1648 to 1815, including the development of absolutism in France and elsewhere in the Europe. The
course deals at length with the cultural movement known as the Enlightenment; the liberal revolutions in England and France, and the consequences of those of those developments.

HIST 343 Fatimid, Ayyubides & Mamelukes Credit Hours: 3
Ismail Mission in the Maghreb, Rise of the Fatimid State and its Internal Problems, the Fatimid Dynasty, Foundation of Cairo and Al Azhar Mosque, Political, Economic and Social Life in Egypt during Fatimid Period, the Zeangids, Saladin Al Ayyubi and Efforts to End the Fatimid Dynasty and the Shiite Sect in Egypt. The Near East in the 11th Century, Saladin and Rise of the Ayyubid Dynasty. Unification of Islamic Forces, Conflict with the Crusaders (Hutjin Battle), Saladin’s Successors, Ayyubid Systems, Emigration of the Mameluk’s Influence, Mameluk’s Naval Efforts to Eliminate the Crusaders’ Presence, Repudiation of Mongol Threat. Economic Prosperity in the 13th Hegira Century (14th Century). Circassians, Main Sultans, Renewal of the Mongol Threat, Portugal’s Port to Conflict with Ottomans and Fall of the Mameluke Dynasty, Civilizational Systems and Accomplishments

HIST 358 Ottomans to the Conquest Credit Hours: 3
Conditions of the Islamic East Under the Buwayhid Dynasty, Rise of the Seljuk State and Control of the Caliphate, 1455-485 Hegira (1063-1092), End of the Great Seljuks’ Era (1485-525 HL1092-1157), Abbasid States Within the Seljuk State, Mongol Invasion. Fall of the Abbasid Caliphate (1656 HL1258), Invasions’ Emigrants in Anatolia in the 12th and 15th Centuries, Rise and Growth of the Ottoman Emirate, Growth of the Ottoman Emirate into a State in the 14th and 15th Centuries, Fall of Constantinople (1453), the Ottoman State and Annexation of Arab Countries, the Government and Administration of the Ottoman Empire, Foreign Conditions, the Caliphate Issue and the Islamic League, Arabs from Separate Establishments Within the Ottoman State to Confrontation of European Invasion, Arab National Thought to the Mid-20th Century.

HIST 370 Modern Arab History since 1919 Credit Hours: 3
This course is a continuation of Arab History I. It begins with the 1919 Egyptian revolt against the British and ends with the Arab-Israeli War. Topics covered include the Arabs in the interwar period, Arab nationalism and the struggle for independence, internal Arab relations, and the Arabs and the Cold War, the Arab-Israeli struggle for coexistence, women of the Arab world, and Arab modernization and development in the age of globalization.

HIST 374 Muslims Minorities in the World Credit Hours: 3
This course explores the developments and debates related to Muslim communities 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 Nationalism and its Consequences, 1815 to 1914 Credit Hours: 3
This course examines nationalism in three interrelated dimensions of 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 nationalisms was disseminated through public performance. The course focuses on nationalism in France, Germany, and Italy. Students will examine the development of ideas, developing sharper communication and writing skills through composition of research papers, class and group discussions, and presentations.

HIST 432 Europe Between the Two World Wars, 1914-1945 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; Europe and the Middle East; Women in European History; The Rise of European Fascism in the 20th Century; Europe-Ottoman Encounters.

HIST 436 Intellectual History of Europe in the 20th Century 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 contributed and responded to key developments in the 20th century. Among the historical themes for consideration are political conflicts, war, fascism, anti-Semitism, the mass politics of socialism, fascism and totalitarianism, race, empire and decolonization.
HIST 444
Morocco & Andalusia
Credit Hours: 3
The Maghreb and its Population, Islamic Conquest, Governments Period, Independent States (Aghlabida, Rustumids, Madaniyoun, Adarasa, Fatimids), Al Ziri and Zanati Emirates, Banu Hilal and Salim, Murabits, Al Muhawish and Their Fall, Spain before the Islamic Conquest, Conquest of Spain, Governors Period, Unmuyad Emirate Period, the Caliphate and its Fall, Al Tahir of States, Andalusia under Murabits and Muhawish, Bri Al Ahmer State, Bani Mureen State and Its Struggle, Fall of Bani Al Ahmer State, Morocco.

HIST 445
Modern and Contemporary History of Arabian Gulf
Credit Hours: 2

HIST 447
History of Modern Europe
Credit Hours: 3
Europe during the 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 Reform of Europe, Italian Unification, German Union, Alliances and Blocks from the Late 19th Century to Early 20th Century, First World War, 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 453
Islamic Art & Archaeology
Credit Hours: 3
Influence of Islamic on Artists, Islamic Architecture (urban architecture, military architecture), Money and Al Numayt, modern and contemporary history of Arabian Gulf.

HIST 454
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 such 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 period as teachers, comes, and constitutes, as a whole, a comprehensive field project related to the real factual field.

HIST 461
Independent Study
Credit Hours: 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 and identities, 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 inter-disciplinary with emphasis on topics proposed by different Honors faculty members.

HONS 101
Honors Freshman Seminar for Humanities.
Credit Hours: 3
The Honors Freshman 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 SocialSciences
Credit Hours: 3
This Honors 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 210
Work Methods and Measurements
Credit Hours: 3
Introduction to concepts of work & man-machine interface, analysis, design and measurement of work, method study, recording at different levels, process analysis, methods of operations research including formulation for problems, cost and to improve quality.

IENG 260
Thermodynamics
Credit Hours: 3
Introduction to the principles of energy conversion systems. Basic concepts and definitions. Properties of a pure substance, ideal gases. Work and heat. The first law of thermodynamics and its application to systems and control volumes. The second law of thermodynamics and the concept of efficiency. The entropy and irreversibility. Selected applications to engineering problems including vapor-power cycles, refrigeration cycles and simple gas turbine cycles.

IENG 310
Facility Plan & Layout
Credit Hours: 3
Fundamentals of facilities planning and design. Facilities planning models including location selection and location allocation modeling, Product, process and schedule design. Flow, space and activity relationships as well as personnel requirements. Material handling equipment selection and materials handling systems. Systematic layout planning and computer aided layout improvements and design. Storage and warehouse system.

IENG 320
Statistical Quality Control
Credit Hours: 3
Concepts and statistical methods for controlling the quality of products and services. Process control techniques, acceptance sampling methods, statistical analysis using QC tools and basics of other methods such as DOE, capability analysis used by management to control processes, costs and to improve quality.

IENG 330
Operations Research
Credit Hours: 3
Methods of operations research including formulation for models and derivation of solutions linear programming. Simplex algorithm, Transportation and assignment problems. Network models.

IENG 331
Advanced Operations Research
Credit Hours: 3
Linear programming review: simplex and revised simplex method sensitivity analysis. Advanced linear programming:

IENG 376
Basic concepts and definitions. Properties of a pure

Prerequisite:
IENG 330

IENG 337 Production Planning and Inventory Control
Credit Hours: 3
Introduction to subject and related terms to the topic, fundamentals of products & processes selection & transformation requirements, approaches for forecasting, aggregate & capacity planning, inventory management for independent demand items, material requirements & resource planning, scheduling, new concepts in subjects such as lean management practices.

Prerequisite:
IENG 330 AND GENG 200 AND GENG 360

IENG 350 Computer Simulation Systems
Credit Hours: 3

Prerequisite:
GENG 106 AND GENG 200

IENG 410 Ergonomics & Safety Engineering
Credit Hours: 3
Introduction to Ergonomics & terms associated, understanding the working of body & mind, physical & mental characteristics, human senses, cognitive processes, nature of work and work capacity, impact of working environment, ergonomic considerations in design of workplace & facilities, controls and displays, office ergonomics, introduction to safety & quality of work life, hazard & failure causes, fundamentals of investigation & analysis.

Prerequisite:
IENG 210

IENG 411 Maintenance Planning & Control
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
Introduction to the philosophy and application 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 problem solving under certainty and uncertainty. Emphasis on the formulation, analysis and use of decision-making techniques in engineering and systems analysis. Application of decision risk problems and probabilistic risk assessments.

Prerequisite:
GENG 200

IENG 423 Design of Experiments
Credit Hours: 3

Prerequisite:
GENG 200

IENG 425 Reliability Engineering
Credit Hours: 3

Prerequisite:
GENG 200 AND IENG 330

IENG 441 Concurrent Engineering
Credit Hours: 3
A systematic approach to the mechanical design of products, requiring the concurrent design of all related processes, iterative and integrated product development methods. Design of world class products. Integrated concurrent and reverse engineering. Quality Function Deployment, Value Engineering; alignment of product requirements with process capability. Design for Manufacturability, Design for Assembly. Robust products through appropriate design of experiments.

Prerequisite:
GENG 106 AND MECH 230

IENG 450 Production Automation
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 control theory, Numerical control (CNC), Programmable Logic Controllers (PLC). Robotics and automated materials handling systems. Analysis of automated production systems/lines including computer-aided design, automated flow lines, transfer lines, and automated assembly lines.

Prerequisite:
IENG 460

IENG 452 Information Systems Engineering
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 Design
Credit Hours: 3

Prerequisite:
PHYS 193 AND PHYS 194 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, basic 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:
IENG 484
Supply Chain Management
Credit Hours: 3
Introduction to subject its importance and evolution, terms associated, Inbound side of chain, procurement/planning, sourcing & sourcing, 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 485
Financial Engineering & Risk Management
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 financial risk including; portfolio theory, Portfolio management, the Capital Asset Pricing Model (CAPM), Monte Carlo, Value-at-Risk, Stress testing, extreme value theory, decision trees and utility theory.

Prerequisite:
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, service strategies and competitiveness of value chain, design of services, service systems and the various considerations, managing and operating services, service considerations for select sectors such as healthcare, public and private non-profit organizations, global performance aspects of services.

Prerequisite:
IENG 498
Indust Systems Design
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; they project planning and scheduling techniques and computational and/or experimental solutions. Emphasis on synthesis of knowledge and skills to assimilate and demonstrate a 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: 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.

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 interactive learning, 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 selfperception to the way the state organizes 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
Introduction 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 help 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
Introduction to International 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 policymaking, 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 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 students with some knowledge of the broad lines of European development from 1500 to 1750, as well as with an introduction to some outstanding current problems of interpretation. The principal topics include the later Middle Ages, Renaissance, Reformation, Scientific Revolution, and Enlightenment. Geographical emphasis will be on Western Europe, primarily England, France, Germany, Spain, and Italy.

INTA 203
Women in Islam
Credit Hours: 3
This course examines the women’s issues related to Islam and contemporary Muslim culture including the role and rights of women in Islam. It will cover the changing roles what women have played throughout Islamic history and the shifting discourse in Muslim communities on the construction of gender identities. This class will challenge western assumptions and interpretations of other societies and provide a framework for in which to understand women in Islam from a variety of perspectives.

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 formation of classical and medieval Muslim institutions and technology will be a particular interests, as will be
the development of Islamic theology and law, and the interaction of Muslim thought with the great cultural and intellectual traditions of the medieval world.

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 its people, society, culture, and its contemporary conditions. The format will consist of lectures and class discussions through which we will examine the economic, intellectual, 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, and 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 sta

Prerequisite: INTA 204

INTA 296 Globalization
Credit Hours: 3
Globalization is a popular term that remains poorly understood. For many 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 economic, social, and cultural phenomena, such as the new international relations, the new international organizations, political economy and security. This seminar will attempt to answer fundamental concepts such as questions: What is globalization? Is it truly new? Is it actually global? Does it represent a threat to national sovereignty? What are its implications for domestic policy making?

INTA 209 Islam and the West
Credit Hours: 3
Modern nation-states appeared first in Western Europe. The characteristics of such an institution—such as middle-class ascendency, centralization, nationalism, urbanization, industrialization and modernization—were natural results of historical developments within Europe. Since the beginning of the nineteenth century when Europe began to colonize the world, then later in the twentieth century when the two super-powers, Russia and USA (themselves extensions of European civilization), divided the world between them, and today with Islamic fundamentalism representing a challenge to Western modernity, the patterns of development and progress in the Islamic world have been greatly influenced by the example of the West. First, through the enforced rule of Western European countries, particularly France and England and later by choice of westernizing indigenous rulers, the Islamic world has been subjected to westernization. This course discusses the historical relationship between the West and

Prerequisite: INTA 205

INTA 302 Politics of Oil
Credit Hours: 3
This course examines the impact of oil politics on society and politics in development. The main focus will be on the modern history of major oil producers in the Gulf region and around the world, from the Iranian revolution to the establishment of new republics. In particular, this course will analyze the relationship between oil, foreign interventionism, Islamism, democratization, religion and social change. To this end, this course will provide a comprehensive introduction to the contemporary politics of oil by discussing its dynamics, implications, and impact on the formation, reforms and transformations of social, cultural and political institutions. The class is an interdisciplinary course and involves disciplines such as history, political science, economics, and sociology.

Prerequisite: INTA 102 AND INTA 103

INTA 305 Internship
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 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 political meanings of culture as they relate to issues of history, political science, economics, and sociology.

The purpose of this class is to introduce students to the international political economy with particular attention being given to the Middle East. The course will draw on a number of key political and cultural critiques that address the way we read, interpret and construct meaning, identity, knowledge and values in our societies, politics and cultures. The course is particularly interested in examining the legal politics of culture as they relate to issues such as representation, power, class, gender, media and nationhood in terms of their social and historical contexts.

Prerequisite: INTA 105

INTA 313 Dialogue Across Societies and Civilizations
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 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/African world and the West via online dialogue sessions. The goal of the course is to improve awareness and understanding of other societies. Students will examine their perception of ‘other’ through this intercultural dialogue. The course is taught in conjunction with Solyia (www.solyia.net).

INTA 311 Islamic Political Thought
Credit Hours: 3
This course investigates how Muslims – both religious and secular – have thought about Islam and its role within 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 tries to understand the diverse ways that Islam as a religious ideology has been historically implicated, or, as some have argued, “hijacked” by modern politics. Taking an historical 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 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 secularism in this unique part of the world.

INTA 310 International 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, global warming and the role of energy in the international economy.

INTA 312 Culture and Politics
Credit Hours: 3
The purpose of this class is to introduce students to the theoretical debates, critical methodologies and theorists of the field 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 cultures. 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 nationhood in terms of their social and historical contexts.

Prerequisite: INTA 105

INTA 315 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
INTA 350 Foreign Policy of the United States
Credit Hours: 3
This course explores 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 the contemporary era, including the wars in Afghanistan and Iraq.

INTA 401 International Relations Theory
Credit Hours: 3
This course explores the prominent theories of International Relations. Major themes include morality and politics; debates over methods and theory; foreign policy and global 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 various theories of international relations discussed in class.

Prerequisite: INTA 103

INTA 403 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 will be placed on balance of power theory, organization theory, civil-military relations, and the relationship between war and politics. The reading list includes Jervis, Schelling, Waltz, Blaieray, von Clausewitz, and Huntington. Students 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 law as it relates to women, including constitutional rights, inheritance laws, civil rights, legislation, domestic relations, law as a profession for women, and political implications of the legal process. This course will look focus both on the history of gender and law as well as contemporary issues across the world.

Prerequisite: INTA 103

INTA 405 Gender in International Perspective
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 deeper learning of a particular topic relevant to the study of International Affairs. Goals of the course include 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.

Prerequisite: INTA 103

INTA 410 International Politics & Epidemics
Credit Hours: 3
This course will explore the history and evolution of some of the greatest challenges to human health. We consider the origins of epidemics, broadly defined, and the factors - rooted in biology, social organization, culture and policy economy - that have shaped their course. We examine the interaction 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 the sick who search for treatment or cures; the politicians, administrators and communities who try to prevent or control disease at both the local and international level; and the artists, composers and literary figures who interpret the effects of the great pandemics. Cases chosen from different regions and continents range from early plagues and the recurrent threats of influenza, malaria and tuberculosis to nineteenth century disasters including cholera and the Irish Famine.

INTA 413 Europe, 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 improve their sense of inquiry and develop sharper communication and writing skills through the writing of research papers, class and group discussions and presentations.

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 late Ottoman Empire and close with the events of 9/11 and their aftermath. Reading list contains historical surveys, novels, and primary source documents.

INTA 421 Conflict Resolution and 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 military or humanitarian interventions will be examined. This course will also explore conflict styles, communication and mediation skills through relevant case studies.

Prerequisite: INTA 103

INTA 440 Politics of Development
Credit Hours: 3
This course introduces students to the broad theories of development and alternative proposals. 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 465 Ethics of International Relations
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 military or humanitarian interventions will be examined. This course will also explore conflict styles, communication and mediation skills through relevant case studies.

Prerequisite: INTA 103

Leadership and Civic Responsibility
Credit Hours: 3
This course examines the concepts and ideas that surround ‘Leadership’ and ‘Civic Responsibility’. It elucidates a variety of diverging perspectives on ‘Leadership’ and, thereafter, locates them in the context from which they arise. Ultimately, questions of leadership and civic responsibility raise important questions on ethics and the moral bases for authority and legitimacy.
This course, then, considers the ways in which thinkers have responded to the understanding of leadership, teambuilding and responsibility. The course aims to reveal to students the deep-seated understandings of this course is to reveal to students the deep-seated beliefs that structure the definition of leadership and their responsibilities to others.

INTA 470 Area Studies Credit Hours: 3
This course offers an interdisciplinary examination on a region of the world through a rotating topic focus.

ISLA 101 Studies in Islamic Creed Credit Hours: 3
This course would enable the student to get understanding the terminologies pertaining to Aqeedah (theology) in Islam and get acquainted with both the methodology of the Quran and Sunnah in entrenching faith and conviction with regard to rights and responsibilities. A significant aim would be asked that, that revolve around elite/mass attitudes towards leadership, teambuilding and responsibility. Broader questions will have responded to the understanding of leadership, teambuilding and responsibility. The course aims at enabling the student to understand the important milestones of contemporary thought and the way to derive benefits related to the narration. Analysis of the hadith with respect to its narration and text.

ISLA 211 Islamic Studies in Legislative and Legal Thought 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 IS Credit Hours: 3
The importance of methodologies in Islamic Studies and the Methodological Heritage of Muslims. Methodologies and the doubts and allegations hurled on the Quran and their contemporary applications. It also elaborates the terms of al-salam (advanced payment sale) al-ljara (leasing), al-wakala (Agency), al-Sharka (company), al-Musqat, al-Muzara (crop sharing), al-Ju’ala (Wages) and al-Daman (warranty).

ISLA 204 Sufism and Ethics Credit Hours: 3
The objective of this course is to acquaint the student with an understanding of tawassul 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 tawassul in traditional Islamic civilization.

ISLA 205 Intellectual Foundations of Islamic Civilization 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 workings 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 and Sunnah. It also enables the student to analyze the forward march of Islamic Civilization and understand its workings as well as the role of scholars in the dissemination of Islamic Thought.

ISLA 207 Analytical Exegesis Credit Hours: 3
This course aims at introducing the student to the principles of Quranic recitation, the aims and objectives of the smaller surahs of the Quran. Memorization of several verses and chapters from the Quran. Deriving the Purposes of Sharia and social and ethical principles from Quranic verses.

ISLA 209 Islamic Studies in Contemporary Thought Credit Hours: 3
The course aims at enabling the student to understand the important milestones of contemporary thought and compare it with modern Islamic thought.

ISLA 210 Thematic Hadith Credit Hours: 3
Introduction to a number of comprehensive hadith and the way to derive benefits related to the narration. Analysis of the hadith with respect to its narration and text.

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ISLA 210 Thematic Hadith Credit Hours: 3
Introduction to a number of comprehensive hadith and the way to derive benefits related to the narration. Analysis of the hadith with respect to its narration and text.
The course covers the importance of the State and its nature, the Imamate, sovereignty, governance, the source of sovereignty, the duties of rulers and their rights and attributes. It also studies rights and public freedom, the principle of consultation and obedience, legislation and codification in the Islamic state.

ISLA 308
Contemporary Intellectual Trends
Credit Hours: 3
Apprise the student of the most significant contemporary trends of thought with respect to their development, methods and objectives. The student should be able to distinguish between the characteristics and personalities of these trends, critically study these trends from the Islamic perspectives and identify their pros and cons. Strengthen research skills around the intellectual trends and try to discern the general framework in which these trends are born and work.

ISLA 401
Graduation Project
Credit Hours: 3
To assist the student in the realization of the objectives of the programme and its outcomes and strengthen in him skills related to presentations, discussion and debate. The student would further learn how to harmonize between originality and contemporariness in the field of religious thought and accept and tolerate difference of opinion and visions.

Prerequisite: ISLA 202

JAPN 101
Japanese I
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 include how to communicate in daily situations such as greetings, self-introduction, weekend plans, thanking, apologizing, etc. The listening component will focus on how to understand what others say in daily conversations.

Prerequisite: JAPN 101

KORN 101
KOREAN I
Credit Hours: 3
This course will introduce basic Korean speaking, listening, comprehension, reading, and writing grammar through 2 units includes illustrations, audio visual materials on topics covers the basic structures of Korean language and focus will be placed on learning the alphabets and reading simple passages. During the course emphasis will be placed on the accuracy and fluency in both spoken and written Korean communication. The material will include how to communicate in daily situations such as greetings, self-introduction, weekend plans, thanking, apologizing, etc. The listening component will focus on how to understand what others say in daily conversations.

Prerequisite: KORN 101

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. This part will deal with the concept, classification, subjects and persons of rights and other relevant issues.

Prerequisite: LAWC 101

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 writing and in 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.

Prerequisite: LAWC 101

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, evolvement 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 214
Effects of Obligations
Credit Hours: 3
This course deals with the legal regulation of the effects of obligations and its 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. This course is to be differentiated from other related topics such as the international law of human rights.

Prerequisite: LAWC 101

LAWC 213
Sources of Obligations
Credit Hours: 3
This Course introduces the students thoroughly to the fundamental 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 201
Sources of Obligations
Credit Hours: 3
This course will cover the basic concepts and principles of obligations and their related topics. The course is to be differentiated from other related topics such as the international law of human rights.

Prerequisite: LAWC 101

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Prerequisite: LAWC 101

LAWC 201
Sources of Obligations
Credit Hours: 3
This course will cover the basic concepts and principles of obligations and their related topics. The course is to be differentiated from other related topics such as the international law of human rights.
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 companies, 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 202 OR CST 173 OR IBT 061 OR IELT 5.5 OR T02 500 OR ENGL 111

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 concept and theory of commercial transactions and types as regulated by the 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 commercial transactions such as the contract of sale, the contract of leasing, and contract of credit such as the contract of purchase and sale.

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 attributes, systems of government, the concept of government and its various types with samples of current governing systems. 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 223
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 225
Family Law
Credit Hours: 3
The State of Qatar has recently codified most legal aspects of family relationships in the New Family Law No. (22) of 2006. This course will examine all provisions of this law, in particular the provisions of marriage, divorce, financial provision, guardianship.

LAWC 233
Anglo-American Legal System
Credit Hours: 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 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 legal system of the State of Qatar follows the Latin distinction between civil and commercial contracts. This course will, therefore, follow this distinction and study the concept of nominated civil contracts and the distinction between commercial contracts and non-nominated contracts. The course will concentrate mainly on the two main nominated contracts: the contract of sale and the contract of leasing. All aspects of these contracts will be examined including their definition, formation, elements, obligations arising there from and termination.

Prerequisite:
LAWC 214

LAWC 315
Labor & Social Insurance Law
Credit Hours: 3
This course deals with the general principles of labor law in the light of the legal system of the State of Qatar and international conventions. It will introduce the students to the labor laws definition, scope, evolution and sources. It will then investigate the individual labor contract; its elements, duration and effects. The course shall also spot the light on the legal regulations of the collective labor agreements, labor syndicates and the settlement of the collective labor disputes. The course will also examine the legal environment of social security.

Prerequisite:
LAWC 213

LAWC 316
Law of Procedures in Civil and Commercial Matters I
Credit Hours: 3
This is an advanced course which deals with the structure of the judiciary in the State of Qatar, the formation of the civil courts, their jurisdiction and competence, the legal proceedings of the civil and commercial cases before the courts and the rules of appeals and cassation.

Prerequisite:
LAWC 214

LAWC 321
Access to Justice
Credit Hours: 3
This course deals with the two major classifications of crimes in the Qatari penal law. 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); justifiable crimes (contempt of court); crimes against the 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, abortion, kidnapping, false imprisonment, sexual crimes, blackmail, theft, bribery, fraud and intellectual property crimes.

Prerequisite:
LAWC 323

LAWC 329
Commercial Laws and Banking Transactions
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 types 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 214 AND LAWC 217

LAWC 330
Judgments and Criminal Appealing Means
Credit Hours: 3
This course provides a detailed discussion of the criminal judgment through highlighting its essence, types, distinctive elements and conditions of validity. The course further examines the possible objections that could bar the execution of the criminal judgment, as well as the different options for challenging it; whether through ordinary means, namely; objection to in-absentia judgments, and appeals of first instance judgments, or extraordinary means, namely; cassation and request for reconsideration. It also highlights criminal judgments that could be subjected to appeal, parties who have the right to appeal, times and procedures of appeal and the legal effects of the appeal.

Prerequisite:
LAWC 324

LAWC 333
Law of Electronic Commerce
Credit Hours: 3
This course will introduce the students to the main legal issues of electronic transactions in the light of both national and international law. It addresses the new legal and policy issues that arise when businesses and consumers use the Internet to conduct their commercial transactions. These issues span a broad range of subject matters, including consumer protection, contracting, digital signatures, electronic payment systems, privacy, jurisdiction, unfair competition, torts, alternative dispute resolution, and taxation.

Prerequisite:
LAWC 217

LAWC 335
Intellectual Property
Credit Hours: 3
This course deals with national and international legal protection of intellectual property rights. The course shall introduce the students to the theory of intellectual property and applications, namely: copyrights and neighboring rights, industrial and commercial property rights and the laws that protect patent, trademarks and layout designs. It also examines the rules of the law that protect intellectual properties 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 339
Public International Law
Credit Hours: 3
This course will introduce the students to the definition, legal binding character, sources, and branches of public international law. It will also deal with different aspects of its applications in peace and war; in particular the question of international recognition of a state, the states responsibility, succession and means of international disputes settlement.

LAWC 345
International Trade Law
Credit Hours: 3
This course examines international laws and institutions that govern foreign trade, including the World Trade Organization (WTO), the General Agreement on Tariffs and Trade (GATT), and regional trade agreements. Focus is on customs laws, dumping, most favored nation treatment, unfair trade practices, and trade liberalization under the WTO. In addition, consideration is given to the WTO’s dispute settlement system.

Prerequisite:
LAWC 217

LAWC 348
Corporate Law
Credit Hours: 3
This course deals with the commercial company law in the State of Qatar in its light of Commercial Company Act No. 5 of 2002 and its amendments. The course shall introduce the students to the concept of “company” as a contract and as a legal person. It shall then turn to detail the legal principles and rules that govern each type of companies (i.e. General Partnership, Simple Commandite Partnership, Association in Participation, Joint Stock Company, Commandite Partnership by Shares, Limited Liability Company, Single-Person Company and Holding Company. The course will also cover the rules of merger, take over and liquidation of all types of companies.

Prerequisite:
LAWC 217

LAWC 350
Maritime Law
Credit Hours: 3
This course aims at dealing with different aspects of maritime law such as; its definition, characteristics, history and sources. It also deals with the legal nature of a vessel (ship) and provides a definition of a vessel, its nature, and the means for owning it. Moreover, the course addresses the individual’s associated with a vessel such as the owner, captain and seamen (crew), and the forms of their responsibility (liability) pursuant to international conventions and positive laws. The course deals with exploiting the vessel for transport whether through transport with shipping documents or through lease contracts which the course deals with in detail, insofar as their types, the obligations devolving upon the party in each type, and a study of the creditors of a sea journey, in addition to a study of sea accidents such as collision, loss, and also a study of maritime insurance.

Prerequisite:
LAWC 217

LAWC 351
Administrative Jurisdiction
Credit Hours: 3
This course is concerned with all types of judicial review of administrative acts and decisions and with the principle of legality; its application and scope of its observation by public administration. It also studies the sources of legality and the scope of its application in some Arab countries. On the other hand, it studies the balancing of the principle of legality by means of discretionary power, emergency powers and acts of state government.

Prerequisite:
LAWC 321

LAWC 352
Anti-Corruption Law
Credit Hours: 3
This course deals with corruption crimes in the Qatari legislation such as bribery offenses, misappropriation of public funds, exploiting positions, white collar crimes, and other crimes related to public fund. The course also discusses the mechanisms of criminal prosecution in this type of crimes, methods of investigation, punishing the perpetrators, and the international cooperation in the fight against these crimes. In addition this course introduces the student to the corruption offenses, according to the relevant international conventions such as the United Nations Convention Against Corruption, Arab Convention Against Corruption. The course addresses the causes of corruption and its types, the regulatory agencies and their role in the fight against corruption, mechanisms for prosecuting integrity, and the realization of the principle of transparency.

Prerequisite:
LAWC 324

LAWC 353
Real & Personal Securities
Credit Hours: 3
This course will examine the main principles of debt securities in the Qatari Civil Code. It covers the concept, elements, conditions and legal effects of all types of real securities such as Mortgage, Pledge, and Liens, and of personal securities such as guarantees.

Prerequisite:
LAWC 214

LAWC 354
Law of Public Service
Credit Hours: 3
This course explains the law of civil service in Qatar, by showing how the public jobs are organized, described, and filled. It also deals with the legal status of public servants or employees and their duties and rights during and after their service.

LAWC 355
Economic Crimes Law
Credit Hours: 3
This course deals with different forms and patterns of behavior called economic crimes. The course discusses its nature, dimensions, and the penalties for committing such behavior. The course also discusses the principles that also organize responsibility 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 accompanied by some abuses and violations committed by some individuals in their endeavor of economic and administrative acts. The course aims at teaching the students to understand the principles and laws which relate to economic crimes within modern Qatari laws dealing with the prosecution of the perpetrators of these kinds of crimes.

Prerequisite:
LAWC 324

LAWC 407
Special Topics
Credit Hours: 3
Selected topics from specialized topics of law aimed at deepening students skills and knowledge toward
courts (conflicts of jurisdictions) in cases involving

examines legal rules set up to determine the competent

public order in Private International Law. The course also

covers the legal remedies for multinationals and

acquisition, withdrawal and dropping. The course shall

its definition, concept, development, types and means of

system.

LAWC 430
Prerequisite:

LAWC 324
LAWC 430
Private International Law
Credit Hours: 3
This course deals with the general theory of nationality, its
definition, concept, development, types and means of
acquisition, withdrawal and dropping. The course shall
also cover the legal remedies for multinational and
stateless. The second part of this course deals with
the legal status of foreigners residing on the State of Qatar.

LAWC 409
Extensionship
Credit Hours: 3
The extensionship will give students the opportunity to
work for academic credits with judges, lawyers, in-house
counsel and other agencies. In these places, students
may do legal research and writing; they may conduct
client interviews, or they may make court appearances
under the supervision of an attorney. In conjunction with
this uncompensated work, they engage in a supervised
tutorial which allows them to reflect and learn from their
experience.

Prerequisite:

LAWC 111
LAWC 411
Real Rights
Credit Hours: 3
This course deals with the property rights: the right of
ownership, the scope of this right, the instrument for its
protection, types of ownership, the basis for acquiring
property, the rights derived from ownership, transfer, use,
benefit, restrictions on its use and its disposal, all of that
will be studied according to Qatar relevant legislation.

Prerequisite:

LAWC 214
LAWC 413
Private International Law
Credit Hours: 3
This course deals with the general theory of nationality, its
definition, concept, development, types and means of
acquisition, withdrawal and dropping. The course shall
also cover the legal remedies for multinational and
stateless. The second part of this course deals with
the legal status of foreigners residing on the State of Qatar.
This course deals also with the concept, development,
nature, scope and role of conflict of laws rules in private
international relationships either of financial character or of
personal and family status and concept and applications of
international private 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:

LAWC 213
LAWC 414
Law of Civil Contracts II
Credit Hours: 3
The course will concentrate on two other contracts
nominated and regulated by the Civil Code, in particular
the Moqueqah 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:

LAWC 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 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:

LAWC 324
LAWC 430
Practical Criminal Investigations
Credit Hours: 3
This course provides a definition of “practical criminal
investigation”, as well as its importance, development, and
safeguards. It further highlights the functions and powers
of the criminal investigation agencies, the characteristics
of the criminal investigator, and the substantive and
procedural rules which govern collection of evidence,
discovery of crimes committed, and following legal
and technical methods in collecting and preserving the
evidence. Furthermore, the course aims to illustrate
the use of scientific and technical legitimate methods in
crime searching and evidence collection to reach
the truth. The course includes trace analysis at the forensic
crime scene whether liquids, solids, gassiness, artificial and
human materials. The course also covers the following
topics: handwriting emulation to discover forgery,
material and microscopic traces, hair, fibers, sewing, rocks
and soil analysis. It also focuses on defining other
correlated sciences that are well connected with criminal
investigations such as: forensic medicine, criminal
chemistry, DNA test, and fingerprint test. The course
moreover provides instructions regarding handling specific
cases such as: abortion, sudden death, different types of
body injuries, different types of burns, sexual offences,
identification evidence, drowning, suffocation, wounds,
forergy, counterfeiting, drugs and toxins.

Prerequisite:

LAWC 422
LAWC 433
Oil & Gas Law
Credit Hours: 3
This course examines the history, development and
legal nature of agreements and contracts of exploration,
production, sale of Oil and Gas. It focuses on the
special legal distinctiveness of these legal instruments in
Arab and Gulf 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 agreement, 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:

LAWC 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 in 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
permissibility in this branch of law such as: the legitimate
defense, restoration, the fighters rights within the war
and the intervention by force for humanity. The course
focuses on the criminal liability and the sanction in the
international criminal law. The course will also deal 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 for
Prerequisite:

LAWC 323
LAWC 449
Environmental Laws and Regulations
Credit Hours: 3
This new course deals with national and international
laws and regulations which prevent environment from
degradation and pollution and the effectiveness of these
legal instruments in achieving this goal.

LAWC 450
Law of Procedures in Civil and Commercial Matters II
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: writing, testimony, oath, declaration or confession,
presumption, 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:

LAWC 316
LAWC 451
Altanat 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 the
govern arbitration agreements, arbitral tribunal, arbitral
proceedings and arbitral awards. A considerable weight
must be given to the New York Convention, the UNCITRAL
Model Law and all regional and international instruments
to which the State of Qatar is a party.

Prerequisite:

LAWC 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

Prerequisites: LAW 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 continue to develop their ability to read and analyze the law, as well as their persuasive writing skills. The preparing arguments for both sides of a legal issue as they participate in the writing of an appellate and appellate brief. They will also be introduced to oral advocacy skills required to make a formal oral argument before an arbitral or judicial tribunal. 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. Accordingly, deadlines for some assignments are the same as those for a Moot. Students who serve as members of a particular moot court competition and students will be expected to work on assignments throughout the semester. Top performing students may be in

Prerequisite: LAW 111 AND LAW 223

Prerequisites: LAW 446 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 investment under bilateral and regional investment treaties (BITs) and the national case-law on the treatment of foreign investment.

Prerequisite: LAW 217

Prerequisites: LAW 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 the national 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 QU at a Moot Court competition. Accordingly, the initial weeks objectives are expected to recognize the theories, concepts, and private principles of GCC.

Prerequisite: LAW 480

Prerequisites: LAW 484 GCC Law Credit Hours: 3
This course discusses the developments, institutions, and legislative issuance mechanisms of the Gulf Cooperation Council. It also assigns the Council’s economic treaties and execution of regulations among GCC countries, as well as the relations among the Council, GAT and WTO, and the similarities/differences between the Council and EU. It discusses the “Collective Legal Defense Right” and other common interest issues. Students who study this course are expected to be able to understand the theories, concepts, and private principles of GCC.

Prerequisite: LAW 499 Legal Ethics Credit Hours: 3
This course is intended to cover rules and principles of legal ethics that are required to be followed by all those people involved in the profession. It includes the legal ethics and responsibilities of judges and public prosecutors. It then concentrates on the client-lawyer relationship, proceeds through a lengthy analysis of the tension between the client-lawyer relationship and the lawyer’s obligations to the justice system and society, and concludes with discussions of economic issues, (billing, advertising and solicitation, legal services and pro bono work). The course specifically addresses both bias and substance abuse in the profession, and has among its recurring themes the pressures faced by young law firm associates, the effect of a law firm’s “culture” on the ability to practice ethically, and the tension between acting morally while remaining within the bounds of legal ethics.

Prerequisite: LAW 213

MAGT 101 Principles of Management

Credit Hours: 3
This course focuses on the fundamental concepts of management including its characteristics, evolution and importance. Topics include the functions performed by managers, such as planning, organizing, directing and controlling. Current issues facing managers will also be discussed to provide students with the necessary skills they can build upon to succeed as future managers.

Prerequisite: ENGL 004 OR ENGL 202 OR ENGL 207 OR ENGL 210 TOEFL Internet-based Test 061 OR Int Eng Lang Test Synt-IELTS 5.5 OR TOEFL Computer-based Test 173 OR ENGL 040

MAGT 301 Organizational Behavior Credit Hours: 3
This course examines the behavior of individuals and groups in organizations. Among the topics covered include issues such as perception, learning, attitudes, motivation, contingency variables influencing structure, leadership and workgroups.

Prerequisite: MAGT 101 OR MAGT 112

MAGT 302 Human Resources Management Credit Hours: 3
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 planning, job description, recruitment and selection, wages and salaries, training and management development, performance appraisal, labor, information systems, and current issues.

Prerequisite: MAGT 101 OR MAGT 112

MAGT 303 Entrepreneurship and Small Business Management Credit Hours: 3
This course focuses on the entrepreneurial process and the different kinds of entrepreneurial outcomes. Topics covered include opportunity identification through analysis of industry riches, skills needed in order to turn an opportunity into reality, business plans, launch decisions, and obtaining risk capital.

Prerequisite:
Business Planning for Entrepreneurs  Credit Hours: 3

This course offers an introduction to the process of forming a new business plan 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

MAGT 329

Building & Sustaining Successful Enterprise  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 the different circumstances in which our students find themselves.

Prerequisite:
MAGT 301 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 153 OR STAT 155

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 environments. It also tries to comprehend the strategic standing 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 worker participation, teamwork and creative leadership, quality control, training, tools of total quality and obstacles facing total quality management.

Prerequisite:
MAGT 304

MAGT 407

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), 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 101

MAGT 408

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

MAGT 409

Strategic Marketing  Credit Hours: 3

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

MAGT 410

International Marketing  Credit Hours: 3

This course focuses on the strategic framework of knitting together profit goals and its impact on the marketing strategy, market and product/business portfolio, market segmentation and positioning strategies.

Prerequisite:
MAKT 401 OR MAKT 302 OR MAKT 301

MAGT 411

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

MAKT 404
Services Marketing
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 service environment, adapting marketing management functions.

Prerequisite:
MAKT 301

MAKT 405
Promotion Management
Credit Hours: 3
This course focuses on developing an understanding of the terminology of promotion and an understanding of the role of advertising both in the firm and in society, and an ability to use 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
History of Oceanography - The origin of Earth, its oceans, and life in the ocean - Marine provinces (continental margin, deep ocean basin) - The origin of the ocean basin - Chemical properties of the ocean - Physical properties of the ocean (waves, currents & tides) - The Marine Environment - Biological productivity - Life in the open ocean - Life on the ocean floor - Food web in marine environment - Factors affecting life in the ocean - Human-interacts. Practical: Basic units - Ocean depth measurements - Bottom topography - Marine sediments - Waves and currents - Tides - Chemical constituents of marine water - Taxonomic and morphological study on selected specimens which represent different groups of marine organisms.

Prerequisite:
BIOL 101

MARS 222
Chemical Oceanography I
Credit Hours: 3
It is an introduction to explore the chemistry of the ocean including the chemical composition, reactions taking place in the ocean and their kinetics. The course focuses on the chemical cycles and dynamics of elements as well as dissolved gases stochiometry and extends to cover the chemistry of some specific marine environments.

Prerequisite:
MARS 101 AND CHEM 275

MARS 251
Marine Biology
Credit Hours: 3
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.

Prerequisite:
MARS 101

MARS 325
Marine Pollution
Credit Hours: 2
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, though discharge of anthropogenic chemicals including sewage, oil, pesticides, radioactivity and endocrine disrupting chemicals. The course has case 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.

Prerequisite:
MARS 222

MARS 327
Plankton & Productivity
Credit Hours: 3
This course covers physical aspects of the Ocean Environment; Chemical composition and characteristics of seawater; Primary production, algae of Phytoplankton; Phytoplankton group; Harmful species and their distribution; Zooplankton group; Flotation mechanisms; Phytoplankton crop; Factors limiting primary production.

Prerequisite:
MARS 251

MARS 455
Phytoplankton and Productivity
Credit Hours: 3
This course covers physical aspects of the Ocean Environment; Chemical composition and characteristics of seawater; Primary production, algae of Phytoplankton; Phytoplankton group; Harmful species and their distribution; Zooplankton group; Flotation mechanisms; Phytoplankton crop; Factors limiting primary production.

Prerequisite:
MARS 251

MATH 101
Calculus I
Credit Hours: 3
Limits and continuity. Differentiation. Applications of derivatives. Integration. Inverse functions. Applications of the integral

Prerequisite:
MATH 004 OR MATH P100 OR Scholastic Aptitude Test-SAT 550 OR American College Testing-ECT 24 OR ( Elementary Algebra 082 AND College Level Math 095 ) AND ( ENGL 042 OR ENGL 111 OR ENGL 250 OR ENGL 201 OR ENGL 202) OR ( Total for Integrated Core 400 AND ESL Language Use 100 AND TOEFL-Inst Testing Prog 500 OR TOEFL-Internet-based Test 061 OR TOEFL-Computer-based Test 173 OR Int Eng Lang Test Syst-400 OR ( ENGL 042 AND ENGL 111 AND ENGL 250 OR ENGL 201 OR ENGL 202) 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 Eng Lang Test Syst-400 OR ( ENGL 042 AND ENGL 111 AND ENGL 250 OR ENGL 201 OR ENGL 202) 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 Eng Lang Test Syst-400 OR ( ENGL 042 AND ENGL 111 AND ENGL 250 OR ENGL 201 OR ENGL 202)

Fisheries and Aquaculture
Credit Hours: 3
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.

Prerequisite:
MARS 251

MARS 459
Environmental Impact Assessment
Credit Hours: 3
Environmental Impact Assessment (EIA) is used to identify the environmental and social impacts of large-scale projects such as airport runways, hotels or coastal resorts prior to decision making. EIA can predict environmental impacts at an early stage in project planning and design, and find solutions to reduce adverse impacts and projects to suit the local environment and communities, and present the prediction and options to decision-makers.

Prerequisite:
MARS 251

MATH 101
Calculus I
Credit Hours: 3
Limits and continuity. Differentiation. Applications of derivatives. Integration. Inverse functions. Applications of the integral

Prerequisite:
MATH 004 OR MATH P100 OR Scholastic Aptitude Test-SAT 550 OR American College Testing-ECT 24 OR ( Elementary Algebra 082 AND College Level Math 095 ) AND ( ENGL 042 OR ENGL 111 OR ENGL 250 OR ENGL 201 OR ENGL 202) OR ( Total for Integrated Core 400 AND ESL Language Use 100 AND TOEFL-Inst Testing Prog 500 OR TOEFL-Internet-based Test 061 OR TOEFL-Computer-based Test 173 OR Int Eng Lang Test Syst-400 OR ( ENGL 042 AND ENGL 111 AND ENGL 250 OR ENGL 201 OR ENGL 202) 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 Eng Lang Test Syst-400 OR ( ENGL 042 AND ENGL 111 AND ENGL 250 OR ENGL 201 OR ENGL 202) 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 Eng Lang Test Syst-400 OR ( ENGL 042 AND ENGL 111 AND ENGL 250 OR ENGL 201 OR ENGL 202) 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 Eng Lang Test Syst-400 OR ( ENGL 042 AND ENGL 111 AND ENGL 250 OR ENGL 201 OR ENGL 202)

MATH 102
Calculus II
Credit Hours: 3
MATH 102 is the second course in a three-course calculus series (CALCULUS I-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.

Prerequisite: MATH 101

MATH 103 Intermediate Algebra
Credit Hours: 3
This course 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.

Prerequisite: MATH 103 OR MATH 002 OR MATH 004 OR MATH 021 OR MATH P100 OR American College Testing-ACT 21 OR Scholastic Aptitude Test-SAT 500 OR Elementary Algebra 062

MATH 203 Basic Analysis
Credit Hours: 3
This course is required for the Bachelor degree in Education in the field of Primary School Teaching, with the purpose of preparing the students to teach in primary school. This course deals with reasoning and problem-solving and covers essential logic and methods of proof. Also, it deals with basic set properties, functions, and graphs.

Prerequisite: MATH 100

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 202

MATH 213 Differential Equations
Credit Hours: 3
This course provides an introduction to ordinary differential equations with some applications. Topics to be covered include first and higher order differential equations, eigenvalues and eigenvectors, systems of linear first-order differential equations, Laplace transform and series solutions of linear equations. Upon completion of this course, students should be able to use basic analytic methods to solve differential equations and to model some physical problems.

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 endowments 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 220 Foundations of Mathematics
Credit Hours: 3
This course is required for the Bachelor degree in Education. This course deals with some fundamentals of logic and methods of proof. It also deals with basic set properties, functions, and graphs.

Prerequisite: MATH 100

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 220

MATH 251 Mathematics for Statistics
Credit Hours: 3
Functions of Several Variables. Multiple Integrals. First
MATH 231  OR MATH 232


Prerequisite:
MATH 102

MATH 291

Financial Mathematics
Credit Hours: 3
This course focuses on theory of compound interest and the mathematics of investment and credit. Major topics include measurement of interest, annuities, loan repayment schedules and consumer finance payments in general, sinking funds, yield rates on investments, and valuation of bonds and other securities. Provides background preparation for the professional exam FM given by the Society of Actuaries and the Casualty Actuarial Society.

Prerequisite:
MATH 102

MATH 292
Actuarial Sciences Problems Solving Lab
Credit Hours: 3
This course is designed to equip students with skills and knowledge needed for the professional exams FM and P Society of Actuaries and the Casualty Actuarial Society.

Prerequisite:
STAT 211 AND MATH 291

MATH 312

Calculus IV
Credit Hours: 3
This 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 integrals, Gamma functions, Beta functions and Bessel functions. The prerequisite of this course is Calculus III.

Prerequisite:
MATH 211

MATH 391
Life Contingencies I
Credit Hours: 3
This course introduces the mathematical theory of contingencies where stochastic approach is applied to survival and to costs and risks of life insurances. Topics include insurance, annuities, benefit premiums, and net reserves.

Prerequisite:
MATH 291

MATH 392
Life Contingencies II
Credit Hours: 3
This course is a continuation of the course Life Contingencies I. Major topics include benefit premiums and benefit reserves for life insurance and annuities, and multi-life and multiple-decrement models. On completion of this course, students should be ready to take the professional exam MLC given by the Society of Actuaries

Prerequisite:
MATH 391

MATH 413
Theory of Differential Equations
Credit Hours: 3
This course covers the following major topics: Linear system of differential equations; Nonlinear systems of differential equations; and Stability of linear differential equations.

Prerequisite:
MATH 314

MATH 443
Introduction to Differential Geometry
Credit Hours: 3

Prerequisite:
MATH 231

MATH 466
Numerical Analysis II
Credit Hours: 3
This course covers the following major topics: Iterative methods; Approximation theory; Eigenvalues; Numerical methods, and complex functions; Some special functions, complex numbers and integrals, Gamma functions, Beta functions and Bessel functions. The prerequisite of this course is Calculus III.

Prerequisite:
MATH 211

MATH 365
Scientific Computation and Programming
Credit Hours: 3
This course covers the following major topics: Programming in FORTRAN; Operations; Arrays and subscripts in one dimension; Applications in differentiation and integration; Applications in linear algebra; Applications in numerical analysis; and Applications in mathematics and statistics.

Prerequisite:
MATH 231

MATH 366
Numerical Analysis I
Credit Hours: 3

Prerequisite:
(CMPS 221 AND MATH 102 OR CMPS 223 ) OR CMPS 251

MATH 368
Operations Research I
Credit Hours: 3
This course provides an overview of operations research, linear programming, and the transportation problem.

Prerequisite:
MATH 231

MATH 371
Advanced Mathematical Methods
Credit Hours: 3
This course covers the following major topics: Some special functions; Method of eigenfunction expansions; Integral transforms; and Integral equations.

Prerequisite:
MATH 314

MATH 385
Advanced Mathematics
Credit Hours: 3
Advance Mathematics is a course designed only for electrical 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

Prerequisite:
MATH 365

MATH 393
Life Contingencies II
Credit Hours: 3
This course covers the following major topics: Life Contingencies I. Major topics include benefit premiums and benefit reserves for life insurance and annuities, and multi-life and multiple-decrement models. On completion of this course, students should be ready to take the professional exam MLC given by the Society of Actuaries

Prerequisite:
MATH 391

MATH 413
Theory of Differential Equations
Credit Hours: 3
This course covers the following major topics: Linear system of differential equations; Nonlinear systems of differential equations; and Stability of linear differential equations.

Prerequisite:
MATH 314

MATH 443
Introduction to Differential Geometry
Credit Hours: 3

Prerequisite:
MATH 231

MATH 466
Numerical Analysis II
Credit Hours: 3
This course covers the following major topics: Iterative methods; Approximation theory; Eigenvalues; Numerical
solutions of the initial value problems; Numerical solutions of the boundary value problems; and Numerical solutions of partial differential equations.

Prerequisite: MATH 366

MATH 477 Mathematical Modelling
Credit Hours: 3
This course covers difference equations (Dynamical system 1), difference systems (Dynamical system 2), differential equations (Dynamical system 3), and Applications.

Prerequisite: MATH 314

MATH 496 Capstone Course
Credit Hours: 3
This course is designed to expose students to new material in a current active field in Applied and Actuarial Mathematics and provides an opportunity to students to pursue in more depth, the study of Applied and/or Actuarial Math.

MATH 498 Special Topics
Credit Hours: 3
This course offers an in-depth exploration of a special topic, issue, or current trend in the field of study.

MATH 499 Internship
This internship course adds a significant real-world practical component to students' education

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 500 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 0211 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 related 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.

MCOM 212 Visual Communication
Credit Hours: 3
The course provides an introduction to the primary principals and concepts that professional communicators use to design and produce visually pleasing and effective messages in a variety of media. Includes assignments that apply concepts and introduce visual communication software applications. It focuses on main design principles used in planning communications materials, such as proximity, alignment, repetition, proportion, contrast, balance, unity and rhythm.

Prerequisite: MCOM 103 OR MCOM 101

MCOM 215 Multimedia Report. & Writing 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 103 OR MCOM 101

MCOM 222 Communication Theories
Credit Hours: 3
This course deals with studying the most important communication theories and models, which emerged since the 1920s and their relationship to the practical media practices and applications. The course pays special attention to the powerful effects theories, the selective effects theories, the indirect effects 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 of news stories 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 Communication
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 315 Comm. Research Methods
Credit Hours: 3
This course is designed to train the students in conducting social science research through a hands-on approach that introduces the basic steps and stages of scientific research. The course teaches quantitative and qualitative research methods including descriptive and historical methods; survey and content analysis, sampling procedures, questionnaire construction and analysis of data.

Prerequisite: MCOM 222

MCOM 317 Media Law and Ethics
Credit Hours: 3
The course focuses on the legal and ethical dimensions involved in the practice of journalism, and highlights such issues and concepts like the rights and duties of journalists, freedom of the press, social responsibility, fairness, accuracy, privacy, libel, contempt, obscenity and other legal problems. The course also evaluates Qatar Press Law within the context of international media laws and ethics.

Prerequisite: MCOM 222

MCOM 318 Global Communication
Credit Hours: 3
The course discusses the economic, political and cultural dimensions of global communication. It analyses the political and cultural implications of globalization including the effects of corporate multinational control of global communication and American hegemony of the global scene. Issues covered include global mass communication systems, new communication technologies and their impact, imbalances in media development between the north and the south, imbalances in news and information flow and, finally, the positive and negative impact of globalization on current human communities.

Prerequisite: MCOM 103 OR MCOM 101
This course aims to provide students with a background of news writing and editing with special emphasis on how to conduct face-to-face interviews, telephone interviews, new conferences, as well as preparation and writing of feature stories based on journalistic investigations. The course helps the students publish their work in department's media as well as the local media.

Prerequisite: MCOM 215 OR MCOM 223

MCOM 342 News Reporting, Writing and Editing Arabic Credit Hours: 3

This course is designed to give students a foundation of research, reporting, writing and editing skills that will help them throughout their time in the department and into their professional careers. The course also provides training in advanced journalism skills, including writing reports, columns, editorials, opinion articles and features. The students will have the opportunity of having their reports, news stories, and/or articles published in the local or departmental publications.

Prerequisite: MCOM 215 OR MCOM 223

MCOM 343 Online Journalism Credit Hours: 3

The best way for students to learn the craft of journalism is by doing journalism. Students in this class are expected to start thinking of themselves as real working journalists. Most assignments will take students outside of the classroom, off the campus and into the real world. Also, students will be required to use the latest technology in the field.

Prerequisite: MCOM 342 OR MCOM 341

MCOM 345 Newspaper Design and Production Credit Hours: 3

This course focuses on enabling students to produce content-oriented design, typography and layout. Students will be trained to use the latest desktop publishing software as well as other digital technology. Students will be required to use multi-media and graphic designs for lay out of newspapers, magazines, newsletters and online publications.

Prerequisite: MCOM 222

MCOM 346 Multimedia Reporting and Writing II Credit Hours: 3

This course is designed to provide students with more practical practice of Multimedia Reporting and Writing. 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 347 Investigative Journalism 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 skills in 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 360 Photograph Journalism 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 photography 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 387 Broadcast News Reporting and Writing I 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 388 Broadcast News Reporting and Writing II Credit Hours: 3

This course focuses on more advanced aspects of writing and reporting in the area of broadcast. It specifically able to recognize the difference between bad and good announcing.

Prerequisite: MCOM 215 OR MCOM 223

MCOM 389 Broadcast Production Credit Hours: 3

This course introduces students to the basic concepts of audio and video production. 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 of script and script writing for a variety of radio and TV programs. Students are trained for 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 390 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 391 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 vision composition, and the technical problems involved.

Prerequisite: MCOM 361

MCOM 392 Broadcast News Reporting and Writing 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 Principles 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, as well as explains the stages of successful planning of public relations.

Prerequisite: MCOM 222 OR MCOM 101 OR MCOM 103

MCOM 382 Organizational Communication
Credit Hours: 3
The 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 critique 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 Advertising Copy Writing and 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 non-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 Relations Writing and Presentations
Credit Hours: 3
The course focuses on public relations writing and the preparation of presentations for public relations purposes. The course focuses on writing newsletters, press releases, pamphlets and brochures; as well as the preparation and delivery of presentation for the organization’s audiences. The course teaches students techniques and writing styles that 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 training, and on-site professional experience in local newspapers, Qatar News Agency or Al Jazeera Online. This provides students with a hands-on 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 OR MCOM 344 AND MCOM 342

MCOM 450 Multimedia Journalism - Capstone
Credit Hours: 4
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 456 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: 4
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
This course aims to provide students with knowledge about public opinion, 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

### MCOM 490

**Strategic Communication “Capstone”**

Credit Hours: 4

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 381

### 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. 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. A lot of companies in their efforts to practice social marketing.

**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 impact. Dynamics of systems of particles. Kinematics of rigid bodies. Plane motion of rigid bodies: Forces and accelerations.

**Prerequisite:** MECI 221 AND PHYS 191 AND PHYS 191

### MECI 223

**Solid Mechanics**

Credit Hours: 3


**Prerequisite:** MECI 221 OR MECI 210

### MECI 230

**Manufacturing Processes**

Credit Hours: 3


**Prerequisite:** GENG 231

### MECI 241

**Thermofluids**

Credit Hours: 3


**Prerequisite:** MATH 101

### MECI 321

**Mechanical Mechanisms**

Credit Hours: 3


**Prerequisite:** MECH 210
MECH 342 Thermodynamics
Credit Hours: 3
Prerequisite: MECH 241

MECH 343 Fluid Mechanics
Credit Hours: 3
Prerequisite: MECH 222

MECH 344 Heat Transfer
Credit Hours: 3
Prerequisite: MATH 217 AND MECH 241 AND MECH 343

MECH 361 Control Systems
Credit Hours: 3
Prerequisite: MECH 322

MECH 399 Practical Training
Credit Hours: 3
Practical Training
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 by 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 321 AND MECH 323 AND GENG 360

MECH 425 Finite Element Method
Credit Hours: 3
Prerequisite: MECH 223

MECH 426 Computer Aided Design
Credit Hours: 3
Basic elements of CAD and relevance to current industrial practice. Input and output devices for geometric modeling systems. Representation of curves and curved surfaces. Graphical programming languages, and development of interactive 3-D computer graphics programs. Numerical optimization and its application to parameter design.
Prerequisite: MECH 322

MECH 427 Mechanics of Composite Materials
Credit Hours: 3
Analysis, design and applications of laminated and continuous fiber reinforced composites. Micro- and macro-mechanical analysis of elastic constants, failure and environmental degradation. Design project.
Prerequisite: MECH 223 AND GENG 231

MECH 431 Failure Analysis
Credit Hours: 3
Prerequisite: GENG 231

MECH 441 Energy Systems Lab
Credit Hours: 1
Application of basic measurement techniques and theoretical background gained in energy-related courses in conducting and designing laboratory experiments on complete thermofluid systems. Emphasis is given to parametric effects on the performance of internal combustion engines, compressors, turbines, centrifugal pumps, heat exchangers, air conditioning/refrigeration and similar systems.
Prerequisite: (MECH 342 AND MECH 213) AND MECH 344 Concur.

MECH 442 Refrigeration and AC
Credit Hours: 3
Basic refrigeration concepts, refrigerants. Multistage and cascaded vapor-compression systems, liquid-to-suction

MECH 443 Modern Machining Techniques
Credit Hours: 3
Prerequisite: MECH 230

MECH 445 Corrosion Engineering
Credit Hours: 3
Prerequisite: GENG 231

MECH 446 Modern Manufacturing Processes
Credit Hours: 3
Prerequisite: MECH 230

MECH 447 Computer Aided Design
Credit Hours: 3
Basic elements of CAD and relevance to current industrial practice. Input and output devices for geometric modeling systems. Representation of curves and curved surfaces. Graphical programming languages, and development of interactive 3-D computer graphics programs. Numerical optimization and its application to parameter design.
Prerequisite: MECH 322

MECH 449 Manufacturing Processes
Credit Hours: 3
Prerequisite: MECH 230
centrifugal compressors and fans, impeller and diffuser design, optimum design of compressor inlet, choking in a compressor stage, kinematics. Introduction to manipulator dynamics. Robot sensors and actuators. Control strategies: robot specification and selection, economic justification. Safety and implementation.

Prerequisite:
MECH 343 AND MECH 241

MECH 447 Heat Engines
Credit Hours: 3

Prerequisite:
MECH 342

MECH 448 Design 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 energy standards, realistic constraints that may include economic, environmental, ethical, social, and political, health and safety considerations. Term project.

Prerequisite:
MECH 323 AND MECH 441 AND GENG 360

MECH 449 Fluid Systems
Credit Hours: 3

Prerequisite:
MECH 343

MECH 450 Heat Transfer Systems
Credit Hours: 3

Prerequisite:
MECH 344

MECH 441 Advanced Heat Transfer
Credit Hours: 3
Analysis flow in pipeline networks. Use of commercial software.

Prerequisite:
MECH 343

MECH 442 Heat Transfer Systems
Credit Hours: 3

Prerequisite:
MECH 344

MECH 443 Heat Transfer Systems
Credit Hours: 3

Prerequisite:
MECH 344

MECH 444 Heat Exchangers
Credit Hours: 3
Analysis flow in pipeline networks. Use of commercial software.

Prerequisite:
MECH 343

MECH 445 Fluid Mechanics
Credit Hours: 3

Prerequisite:
MECH 213 AND MECH 361

MECH 446 Turbo Machines
Credit Hours: 3
Classification of turbomachines, dimensional analysis, specific speed, prototype and model testing, basic laws. Incompressible flow turbomachines: centrifugal and axial flow pumps, Euler's theory, characteristics and laboratory testing, cavitition in pumps, hydraulic turbines, and system matching. Compressible flow turbomachines:
**MEDI 102  
Medical Education  
Credit Hours: 3**  
This course introduces students to the knowledge, skills and attitudes needed in order to be a self-directed, life-long learner. Study skills which encourage deep learning should be insculpted and developed at an early stage of education. Students will explore through active learning the broad scope of health and related medical sciences; their future job responsibilities; and competencies they should acquire in order to respond to societal needs and expectations. The context of health and wellness will be used in training the students to apply study skills which support critical thinking and life-long learning.

**MEDI 103  
Human Structure & Function II  
Credit Hours: 4**  
Human Structure and Function II is the second of two-course sequence examining the terminology, structure, function, and interdependence of the human body systems. This course includes a study of the cells, chemistry, tissues, general embryology, and integumentary, musculo-skeletal, respiratory, digestive and urogenital systems. In conjunction with classroom instruction, the anatomy and physiology online lab component for this course requires students to apply knowledge from the classroom to online experiments and critical thinking application exercises.

Prerequisite:  
MEDI 101 Concur.

**MEDI 201  
Introduction to Problem Based Learning  
Credit Hours: 0**  
This course builds on MEDI 102. Students are introduced to the different learning sites in the college and community. The different student centered learning strategies: PBL, TBL, portfolios and the clinical skill lab are revisited.

Prerequisite:  
MEDI 102, MEDI 103, CHEM 101, PUBH 151 (all pre-requisites with concurrency)

**MEDI 202  
Genes to community  
Credit Hours: 7 CH**  
This course is structured around six problems representing from conception, embryonic, newborn, child, adult and elderly. Population health, demography, morbidity and mortality rate and the concept of family health and its relation to community health are introduced. Clinical skills are introduced. Students are introduced to general communication skills, followed by communication with patients, medical interview and history taking skills. Principles of ethics, professionalism and medical law are introduced. Research-based learning is introduced and practiced from day one.

Prerequisite:  
MEDI 102, MEDI 103, CHEM 101, PUBH 151 (all pre-requisites with concurrency)

**MEDI 203  
Body Defense  
Credit Hours: 8 CH**  
Students are introduced to concepts how we protect ourselves, bodily reaction to external risk factors, the internal milieu and homeostasis. It integrates basic concepts from Biochemistry, Genetics, Physiology, Anatomy, Immunology, Pharmacology, Psychology, Pathology and Microbiology. Most of the clinical training takes place in the clinical skill labs with simulated patients. Ethical principles, professional and personal development are continuously revisited. The concepts of healthy lifestyle, health enhancement, and population health are introduced and applied to Qatar health statistics.

Prerequisite:  
MEDI 102, MEDI 103, CHEM 101, PUBH 151 (all pre-requisites with concurrency)

**MEDI 204  
Cardiovascular System  
Credit Hours: 5 CH**  
This unit is structured around five common cardiovascular problems. Students learn basic physical examination and analysis of patient presenting symptoms, clinical examination and management. The concept of risk and risk reduction related to cardiovascular diseases are introduced. Behavior modification, healthy lifestyle, and socioeconomic concept of health are studied. History taking and physical examination skills of the cardiovascular system and vital signs are developed while working with simulated patients and real patients. Students continue their weekly review and critiquing of articles.

Prerequisite:  
MEDI 201, MEDI 202, MEDI 203 (all pre-requisites with concurrency)

**MEDI 205  
Blood  
Credit Hours: 4 CH**  
This course introduces new concepts related to blood as a system. Basic medical sciences related to the process of hematopoiesis, types of anemia and pathophysiology of blood cell malignancies and coagulation disorders. Epidemiological concepts related to diagnostic tests are exemplified through the four problems. Clinical skills related to examination of the lymphatic system and procedures like blood transfusion, ordering and interpretation of hematological investigations will be practiced.

Prerequisite:  
MEDI 201, MEDI 202, MEDI 203 (all pre-requisites with concurrency)

**MEDI 206  
Respiratory System  
Credit Hours: 5 CH**  
This unit is closely linked to the cardiovascular system. The normal structure, function and the underlying pathophysiological concepts related to common respiratory problems are introduced. Students develop the skills of history taking and analysis of common symptoms and signs in patients with respiratory problems. Students continue to develop competence in EBM practice, clinical reasoning and the use of databases. Through the community-based program, students recognize the importance of primary healthcare, preventive medicine and socioeconomic concept of health and illness.

Prerequisite:  
MEDI 201, MEDI 202, MEDI 203 (all pre-requisites with concurrency)

**MEDI 207  
Medicine and the Arts  
Credit Hours: 3 CH**  
This course provides students with the knowledge, skills and attitudes to develop an appreciation for the arts and humanities, and an understanding of their connection to medicine. The course selectively explores elements and genres in visual art, music, poetry, film and drama and considers them in the context of medical themes. In addition to studying a selection of masterpieces in a variety of art forms, the course has a practical component. By engaging students in creative work on medical themes, including activities like acting, drawing, writing poetry, watching and discussing films, the course aims to hone students’ critical thinking skills, creative aptitudes and emotional intelligence. Working in small groups, in a Team Based Learning (TBL) environment, students will also apply and further develop their research techniques, self-learning and presentation skills.

**MEDI 301  
Gastrointestinal system & nutrition  
Credit Hours: 7CH**  
The course introduces to concepts and principles of the gastrointestinal (GI) system, nutrition and metabolism. Biochemical principles related to metabolism and nutrition will revisit. Nutrition and healthy lifestyle are emphasized. Students develop skills in health informatics, data management and critical appraisal. They conduct community-based research through a health promotion project. Clinical skills related to history taking, clinical reasoning, examination of the abdomen and GI track are practiced in skill labs mainly with simulated patients with limited exposure to real patients.

Prerequisite:  
MEDI 204, MEDI 205, MEDI 206 (all pre-requisites with concurrency)

**MEDI 302  
Renal system  
Credit Hours: 5CH**  
The course will introduce the major concepts related to the renal system including normal structure, function and pathophysiology of the renal system. Prevalence and incidence of renal diseases and impact of renal failure on the patient and community, the burden of illness concept, prevention and economies of dialysis and transplantation, will be introduced. Clinical Skills will focus on examination of the renal system and external genitalia, transplantation ethics and EBM practice in relation to the renal system.

Prerequisite:  
MEDI 204, MEDI 205, MEDI 206 (all pre-requisites with concurrency)

**MEDI 303  
Endocrine system  
Credit Hours: 5CH**  
The course introduces to principles of the endocrine system. Clinical skills will focus on examination of patients with skin and endocrine glands. Students learn to identify anatomical features of the hypothalamus, pituitary, thyroid gland and the adrenal gland. Glands and to understand the functions of each gland, its hormonal regulation and the principles and clinical relevance of hormone assays. The student will be able to identify complex ethical issues related to confidentiality, notification and treatment choices that may arise in serious diseases.

Prerequisite:  
MEDI 204, MEDI 205, MEDI 206 (all pre-requisites with concurrency)

**MEDI 304**
Reproductive system
Credit Hours : 5 CH
The course provides a foundational knowledge of the reproductive system and medicine. It builds on the learning in the renal and endocrine systems. Sexually transmitted diseases, prevention, screening and treatment are introduced. Clinical skills focus on history taking and examination related to the reproductive system, examination of pregnant women, and normal delivery. Family planning and sexual health are discussed. In primary healthcare centers, students will learn principles of antenatal care, mother and child health services. The involvement in community based research, critical appraisal, and EBM continue.
Prerequisite: MEDI 301, MEDI 302, MEDI 303 (all pre-requisites with concurrency)
MEDI 305
Musculoskeletal system & neuroscience I
Credit Hours : 9 CH
The course introduces the normal and abnormal structure and function of the musculoskeletal system, spinal cord and peripheral nerves. Students will learn how to take history from patients with a problem related to bones, joints and peripheral nerves. History taking and physical examination of the musculoskeletal system and peripheral nerves constitutes the main bulk of clinical skills training in this unit.
Prerequisite: MEDI 301, MEDI 302, MEDI 303 (all pre-requisites with concurrency)
MEDI 401
Neuroscience II & Mental Health I
Credit Hours : 10 CH
The unit builds on Neuroscience I. It introduces central nervous system, brain normal structure and function and pathology, mental health, normal and abnormal behavior. Clinical skills focus on the examination of the nervous system. Students will be introduced to the importance of mental health, magnitude of mental problems, substance abuse, addiction and behavioral changes. Ethics and rights of patients with a mental disease will be discussed. Critical appraisals of the literature, EBM continue at a more advanced level.
Prerequisite: MEDI 304, MEDI 305(all pre-requisites with concurrency)
MEDI 402
Multi-System
Credit Hours : 5CH
The unit introduces multi-system problems, which covers problems like diabetes, lymphoma and others. Following a holistic approach, this course demonstrates the relation between different body organs and systems. Students at this phase of the curriculum will be able to demonstrate competence in taking focused history and physical examination of all body systems. The problems in this unit cover important concepts of pathophysiology, pathophysiology and pharmacology related to common health problems in different organ systems not previously covered.
Prerequisite: MEDI 304, MEDI 305 (all pre-requisites with concurrency)
MIST 201
Introduction to Management Information System
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: (MAGT 101 or MAGT 112) and (ENGL 250 or ENGL 202 or ENGL 004 or ENGL 040 or ENGL F073 or ENGL 7002 or TOEFL IBT 061 or TOEFL 500 or IELTS 5.5 or TOEFL CBT 173 or (Total for Integrated Core 400 and ESL Reading Skills 100 and ESL Language Use 100))
MIST 301
Introduction to Program 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 Communication & Networking
Credit Hours: 3
This course introduces students to all aspects of current computer networks. 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
MIST 310
Systems Analysis and Design
Credit Hours: 3
This course will introduce various methods to analyse system requirements and design software solutions. It will focus on object-oriented methodologies and provide students with hands-on experience in developing deliverable such as context diagrams, data flow diagrams, use cases, class diagrams, and test plans.
Prerequisite: (MATH 119 OR MATH 101) AND MIST 201
MIST 320
Data & Information Management
Credit Hours: 3
This course covers concepts and methods in design, implementation, and maintenance of the data and knowledge management systems. The course develops an understanding of database development, database administration, and knowledge management.
Prerequisite: MATH 119 OR MATH 101) AND MIST 201
MIST 330
IT Infrastructure and Enterprise Architecture
Credit Hours: 3
This course provides an understanding of the nature and role of the various components of national technology infrastructure. It focuses on different forms of enterprise architectures and provides an overview of the methodologies most commonly used to analyze and manage enterprise architectures. In addition, the course introduces information and systems security and introduce different methods and strategies to manage security risks.
Prerequisite: MIST 201
MIST 331
Enterprise Systems
Credit Hours: 3
This course discusses how modern management information systems are structured, how they are managed and the issues in integrating them to support effective business operations and decision making. Students will learn about the integrated nature of business processes, critical success factors in enterprise system implementation, and gain hands-on experience with a major enterprise system.
Prerequisite: MIST 201
MIST 360
Strategy, Management, and Acquisition
Credit Hours: 3
This course is focuses on developing the ability to critically assess existing IS infrastructures and emerging technologies as well as how these enabling technologies align with and support organizational strategies. It explores the acquisition, staffing, development and implementation of plans and policies to achieve efficient and effective information systems. Students will use various techniques to perform cost-benefit analysis, risk assessment, and other decision-making analysis techniques.
Prerequisite: MIST 201
MIST 390
Special Topics in Information Systems
Credit Hours: 3
This course offers an in-depth exploration of a special topic, issue, or current trend in the information systems field. This course will include special topics or issues that are not addressed in other courses. The topics or issues will be subject to the department approval.

Prerequisite:
MIST 201

MIST 420 Business Intelligence
Credit Hours: 3
This course provides students with an understanding of the principles of decision making in organizations, an appreciation of the concepts of business intelligence systems (BI) across various disciplinary areas, and the acquisition of basic skills in the use and construction of BI systems. Students will gain hands-on experience with major BI applications.

Prerequisite:
MIST 320 OR MIST 302

MIST 440 Applications Development
Credit Hours: 3
This course will introduce the fundamental concepts of application design and development. Students will learn the basic programming skills, program design, program development (including data structures), problem solving, and event-driven programming. It will include the use of logical and physical structures for both programs and data and provide hands-on experience in designing and developing programs and interfaces.

Prerequisite:
(MIST 310 OR MIST 302 ) AND (MIST 320 OR MIST 303 )

MIST 443 Internet Applications Development
Credit Hours: 3
This course will examine how the Internet and the World Wide Web are used for business purposes. Students will learn various tools to develop good websites for organizations and will develop hands-on skills on building websites to market products or services and to establish a simulated business on the Internet. Students will use tools and techniques for project management, project analysis, design, and implementation.

Prerequisite:
(MIST 310 OR MIST 302 ) AND (MIST 320 OR MIST 303 )

MIST 450 IT Governance and Security
Credit Hours: 3
This course provides an overview of the field of information and systems security, defines the key processes and actors, and presents the management framework of information security primarily used by businesses. In this course, students will be introduced to the risk analysis and assessment strategies, concepts, methods, and techniques that enable them to define the scope of protection to meet the objectives of the business organization, and to make sound recommendations, given the risks, legal requirements, and organizational objectives.

Prerequisite:
MIST 330 OR MIST 304

MIST 460 Information Systems Project Management
Credit Hours: 3
This course introduces generic project management methods and techniques (e.g. PML) as well as techniques specific to software projects (e.g. Agile Methods and Extreme Programming) and demonstrates how software projects are different from other types of projects. The course will cover best practices and software project management standards such as Capability Maturity Model Integration (CMMI) as well as the ISO/IEC and IEEE/IEA 10968 and 12207 standards.

Prerequisite:
(MIST 310 OR MIST 302 ) AND (MIST 320 OR MIST 303 )

NUTR 221 Principles of Food Science and Nutrition
Credit Hours: 2
An overview of the interactions among basic disciplines of science and technology which are integrated into the development of more wholesome, stable, and nutritious food products. General principles are stressed using examples which demonstrate the progression of raw agricultural commodities through the integrated technologies which result in commercial food products.

Prerequisite:
NUTR 211 OR MIST 302 OR MIST 303

NUTR 222 Introduction to Dietetic Profession
Credit Hours: 2
This course introduces the student to the profession of dietetics. It provides an overview of the many career directions and opportunities open to dietitians both clinically and in the community. It covers professional trends affecting dietetics and nutrition practice, and current issues affecting dietetics practice. Specific topics include Professional conduct and the Code of Ethics for Dietetics Practice, Evidence Based Practice in Dietetics, and the Nutrition Care Process.

Prerequisite:
CHEM 351

NUTR 231 Human Nutrition
Credit Hours: 3
This course emphasizes the physiological and biochemical aspects of vitamins, minerals, fiber, energy and macronutrients. Students are introduced to topics of current human nutrition interests e.g. antioxidants, ergonomics. Students are trained in this course to use interactive electronic learning and literature searching strategies.

Prerequisite:
CHEM 351

NUTR 319 Quality of Food Production & Equipment
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 of 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 Introduction to Dietetic and Nutrition Practice
Credit Hours: 1
This course introduces students to the profession of dietetics and provides overview of the many career directions and opportunities open to dieticians both clinically and in the community.

Prerequisite:
NUTR 221

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 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 329 Nutrition Education and Communication
Credit Hours: 2
Principles of nutrition communication and education theories applied to individual and group patient education being introduced. This course aims 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
Mechanism 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 Nutrition through the Lifespan
Nutrition Education and Communication

NUTR 353 Nutrition Assessment

Prerequisite:
NUTR 231

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 352 Nutritional Metabolism

Credit Hours: 3
This course covers metabolic pathways and physiological functions of macronutrients (carbohydrate, lipids and protein) at molecular, cellular, tissue, organ and system level. Mechanism of action, metabolism and interaction with other nutrients of water and lipid soluble vitamins, macro minerals, trace elements and ultra trace elements will be discussed.

Prerequisite:
CHEM 351 AND CHEM 352

NUTR 353 Nutrition Education and Communication

Credit Hours: 3
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

NUTR 439 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 441

Food Safety and Quality 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 Management of Food Services 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 Management of Food Services Operations 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 service.

Prerequisite:
NUTR 442 OR NUTR 325

NUTR 450 Medical Nutrition Therapy I

Credit Hours: 3
The course provides detailed information on the role of nutrition in prevention and treatment of disease. This course covers conditions most seen in dietetic clinics; obesity, diabetes, dyslipidemia, iron deficiency anemia, osteoporosis and the more common disease of inborn error of metabolism. The disease process, related biochemical issues, nutritional assessment, medical nutrition therapy and food and fluid issues are discussed in details for each disease.

Prerequisite:
(NUTR 340 OR NUTR 433) AND NUTR 439

NUTR 451 Medical Nutrition Therapy II

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. Cardiac and critical nutrition support are also covered in this course.

Prerequisite:
NUTR 450 OR NUTR 351

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 setups.

Prerequisite:
(NUTR 340 OR NUTR 433) AND NUTR 439

NUTR 455 Professional Issues in Dietetics and 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

Credit Hours: 3

Prerequisite:
NUTR 433 OR NUTR 340

NUTR 460 Food Service Operations

Credit Hours: 3
This course is an introduction to management systems and the effective use of resources in the design and administration of food service facilities. Functions and responsibilities related to the management of these systems, including planning, site design, marketing, human resource management and cost accounting as it relates to equipment, food and labor are also discussed.

Prerequisite:
NUTR 319

NUTR 470 Clinical Pediatric Nutrition

Credit Hours: 3
Nutrition assessment, diagnosis, intervention, and monitoring/evaluation of growth and development of hospitalized pediatric patients and those with special health care needs. Includes acute and critical illness, tutorials, case studies and simulated clinical setups.

Prerequisite:
(NUTR 340 OR NUTR 433) AND NUTR 439

NUTR 456 Professional Issues in Dietetics and 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 467 Public Health Nutrition

Credit Hours: 3

Prerequisite:
NUTR 433 OR NUTR 340

NUTR 460 Food Service Operations

Credit Hours: 3
This course is an introduction to management systems and the effective use of resources in the design and administration of food service facilities. Functions and responsibilities related to the management of these systems, including planning, site design, marketing, human resource management and cost accounting as it relates to equipment, food and labor are also discussed.

Prerequisite:
NUTR 319

NUTR 470 Clinical Pediatric Nutrition

Credit Hours: 3
Nutrition assessment, diagnosis, intervention, and monitoring/evaluation of growth and development of hospitalized pediatric patients and those with special health care needs. Includes acute and critical illness, tutorials, case studies and simulated clinical setups.

Prerequisite:
(NUTR 340 OR NUTR 433) AND NUTR 439
developmental disorders, failure to thrive, inherited metabolic diseases, low birth weight, and chronic diseases.

Prerequisite: NUTR 450

NUTR 490
Capstone Course
Credit Hours: 3
The student is 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: 1
Students learn research methods used in nutrition and dietetics to general pharmacologic and therapeutic designs: 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 of 30-weeks in a 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 proficiencies in a defined set of competencies.

Prerequisite: NUTR 490

NUTR 495
Supervised Dietetic Practicum
Credit Hours: 10
Students spend 15 weeks of a total of 30 weeks of supervised dietetic practice (dietetic internship). The program provides interdisciplinary practicum 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 proficiencies 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 two medicinal chemistry courses. The course has been designed to introduce first year students to concepts required to understand drugs as organic molecules whose biological activities are derived from 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 biological chemical 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 offer 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 relationships on different classes of drugs. The course will cover in details drug groups that are used to treat different diseases, 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 chemical drawing program (Symyx draw) as a learning tools to facilitate the drawing and the memorization of chemical structures.

Prerequisite: PHAR 200

PHAR 210
Pharmacology I
Credit Hours: 3
Pharmacology I (PHAR210) is the first of a series of four (PHAR210, PHAR310, PHAR311, PHAR314) pharmacology courses. This course focuses on physical pharmacy, which 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. The aim of the course Pharmacology I is to provide an insight into a number of physicochemical basics and to explain these within a pharmaceutical context. 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 pharmacological dosage forms, pharmacokinetics and bio-pharmacokinetics which build upon and critically rely on Pharmacology I.

PHAR 220
Foundations of Pharmacology & Pharmacotherapeutics I
Credit Hours: 1
Foundations of Pharmacology and Therapeutics (PHAR220) is designed to provide first year students with an introduction to general pharmacologic and therapeutic principles and concepts, and provides 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 is intended to prepare students for the series of integrated Pharmacology (PHAR220, PHAR321, PHAR420, PHAR421) and Therapeutics (PHAR380, PHAR381, PHAR480, PHAR481) courses that will be delivered during the second and third years of the program.

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 developing 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 and 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 developing competence in the practice of pharmacy.

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
The composition, preparation, performance (both in vitro and in vivo) and the implications and relationship with patient care in relation with solid, semi-solid and gaseous dosage forms are also discussed. The lab component of this course will focus on contemporary compounding prescriptions that will train the student on the pharmaceutical skills and the practical concepts involved in the preparation, use, and evaluation of liquid dosage forms.

Prerequisite: PHAR 210

PHAR 311 Pharmaceutics III
Credit Hours: 2
Pharmaceutics III (PHAR311) is the third of a series of four (PHAR210, PHAR310, PHAR311, PHAR410) pharmaceutics courses and is designed to provide pharmacy students with an understanding of the science of formulation and dispensing of solid dosage forms and their delivery systems. In particular, this course covers an in-depth knowledge regarding tablets, capsules, ointments, creams, suppositories and inhalers, the preparation, performance (both in vitro and in vivo) and the implications and relationship with patient care in relation with solid, semi-solid and gaseous dosage forms are also discussed.

Prerequisite: PHAR 210

PHAR 310 Pharmaceutics II
Credit Hours: 2
Pharmaceutics II (PHAR310) is the second of a series of four (PHAR210, PHAR310, PHAR311, PHAR410) pharmaceutics courses and is designed to provide pharmacy students with an understanding of the science of formulation and dispensing of liquid dosage forms and their delivery systems. In particular, this course covers an in-depth knowledge regarding pharmaceutical solutions, suspensions and emulsions. The composition, preparation, performance (both in vitro and in vivo) and the implications and relationship with patient care in relation with liquid dosage forms will also be discussed. The lab component of this course will focus on contemporary compounding prescriptions that will train the student on the pharmaceutical skills and the practical concepts involved in the preparation, use, and evaluation of liquid dosage forms.

Prerequisite: PHAR 210

PHAR 306 Pharmacy Research, Evaluation and Presentation Skills II (PREP skills II)
Credit Hours: 2
Pharmacy Research, Evaluation and Presentation Skills II (PHAR306) is the second of six (PHAR305, PHAR306, PHAR405, PHAR406, PHAR505, PHAR506) 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 are a primary focus. In addition, oral presentation and debating skills will be developed.

PHAR 305 Pharmacy Research, Evaluation and Presentation Skills I (PREP skills I)
Credit Hours: 1
Pharmacy Research, Evaluation and Presentation Skills I (PHAR305) is the first of six (PHAR305, PHAR306, PHAR405, PHAR406, PHAR505, PHAR506) 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 are a primary focus. In addition, oral presentation and debating skills will be developed.

PHAR 250 Microbiology for Pharmacy
Credit Hours: 3
Microbiology for Pharmacy (PHAR250) is designed to be a general microbiology course which includes the discussion of: bacterial structure and physiology, fungal, viral and viral infectious agents; the response of the host to infection by innate and acquired immune responses; and the control of infectious agents by drug therapy and vaccination.

PHAR 240 428 429
PHAR341, 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 will continue focusing 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, PHAR341, PHAR440, PHAR441) courses. PHAR341 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 will continue focusing 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: 2 Pharmacy Ethics and Law (PHAR350) is a course that focuses on legal, cultural, and ethical aspects of pharmacy practice and medication use. This course is designed to build on concepts introduced in previous courses and is intended to provide the student 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, respiratory system, gastrointestinal system, genitourinary 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, respiratory system, gastrointestinal system, genitourinary 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 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 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. This course is integrated with the courses in pharmacology and pharmacotherapy and is delivered in 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. This course is integrated with the courses in pharmacology and pharmacotherapy and is delivered in 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 373 Pharmacotherapy I Credit Hours: 3 Pharmacotherapy I (PHAR373) is the first of a series of four (PHAR373, PHAR374, PHAR375, PHAR376) 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 disorders. For each system, topics to be covered include pathophysiology, 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 inpatient and ambulatory care. These topics will complement content taught in the balance of integrated 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 neurologic, respiratory, and pain disorders and will apply knowledge gained in the balance of treatment algorithms (including clinical practice guidelines), dosing and pharmacoeconomic considerations. Students will also become familiar with inpatient and ambulatory care. These topics will complement content taught in the balance of integrated courses.

PHAR 390 Integrated Case-Based Learning I Credit Hours: 2 Integrated Case-based Learning I (PHAR390) is the first 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 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 391 Integrated Case-Based Learning II Credit Hours: 2 Integrated Case-based Learning II (PHAR391) is the second 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 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.
in a problem-based learning environment. Patient case complexity increases across the sequentially delivered courses. A variety of courses, emphasis will be 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 390

PHAR 405 Pharmacy Research, Evaluation and Presentation Skills III (PREP skills III)
Credit Hours: 1
Pharmacy Research, Evaluation and Presentation Skills III (PHAR405) is third of six (PHAR305, PHAR306, PHAR405, PHAR406, PHAR505, PHAR506) 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.

Prerequisite: PHAR 306

PHAR 406 Pharmacy Research, Evaluation and Presentation Skills IV (PREP skills IV)
Credit Hours: 1
Pharmacy Research, Evaluation and Presentation Skills IV (PHAR406) is fourth of six (PHAR305, PHAR306, PHAR405, PHAR406, PHAR505, PHAR506) 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.

Prerequisite: PHAR 405

PHAR 410

Pharmacology IV
Credit Hours: 2
Pharmacology IV (PHAR410) is the fourth of a series of four (PHAR210, PHAR310, PHAR311, PHAR410) pharmacology courses and is designed to introduce pharmacy students to the basic principles governing the applications of radio-pharmacy in medical diagnosis and therapy. The status 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 designed to provide a basic understanding of toxicology as it pertains to drugs and common toxins and toxicants likely to be encountered in the 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 agents, drugs of abuse and common toxins and toxicants, and the use of antidotes when available and their mechanisms of action. In addition, students will learn about the availability and use of clinical resources for identifying unknown toxicants and information resources on toxins and toxicants.

Prerequisite: PHAR 420

PHAR 420

Pharmacognosy, Complementary/Alternative Medicine
Credit Hours: 2
Pharmacognosy, Complementary/Alternative Medicine (PHAR420) is the fourth of a series of six (PHAR240, PHAR241, PHAR340, PHAR341, PHAR440, PHAR441) 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 clinical-based pharmacy practice 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 440

PHAR 441

Professional Skills VI
Credit Hours: 2
Pharmacy Professional Skills VI (PHAR441) is the fifth of a series of six (PHAR240, PHAR241, PHAR340, PHAR341, PHAR440, PHAR441) courses. PHAR440 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 440

PHAR 444

Drugs in Sport
Credit Hours: 2
This course is designed to introduce undergraduate
students in healthcare and/or sport-related programs to an
understand how their roles and responsibilities may
be impacted by contemporary healthcare systems and shifts
in technology, practice guidelines, and expectations for
delivery of pharmaceutical care to patients with
complex needs. For this course, emphasis will be 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
previous course and disease management will occur in the context of a virtual health
care environment.

Prerequisite: PHAR 391

PHAR 491
Integrated Case-Based Learning IV
Credit Hours: 2
Integrated 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 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 previous courses and disease management will occur in the context of a virtual health care environment.

Prerequisite: PHAR 490

PHAR 505
Pharmacy Research, Evaluation and Presentation Skills V (PREP skills V)
Credit Hours: 1
Pharmacy Research, Evaluation and Presentation Skills V (PHAR505) is the fifth of six (PHAR305, PHAR306, PHAR405,
PHAR 406
Pharmacy Research, Evaluation and Presentation Skills VI (PREP skills VI)
Credit Hours: 1
Pharmacy Research, Evaluation and Presentation Skills VI (PHAR406) is the sixth and final installment of the 6-course PREP series 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 PREP courses and non-pharmacy statistics and research design courses. In PHAR406, students will be required to moderate one paper session and submit three pharmacy review articles based on preselected scientific journals. The goal of this course is to enhance scientific writing skills. In addition, peer mentoring and critical evaluation of scientific literature skills will be further developed.

Prerequisite: PHAR 405

PHAR 525
Pharmacoeconomics
Credit Hours: 2
The PHAR525 course starts by providing broad understanding of the approach to resource allocation in the health sector. It analyzes the market for health care in terms of efficiency and equity. The bulk of the course then goes to define pharmacoeconomics and to provide an outline for the understanding and application of its concepts at a patient and policy level. It presents various techniques, tools and strategies to evaluate the economic contribution of drug therapies. The course also follows up on some of the concepts in courses PHAR325, PHAR425, PHAR525, PHAR535, regarding pharmacoepidemiology, describing strengths and weaknesses of different epidemiological studies design, including the basic concepts and methods of biostatistics, with a focus on their place in practice as well as the pharmacoeconomics research.

PHAR 530
Structured Professional Practice Experience III
Credit Hours: 4
SPEP III (PHAR530) is the third 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 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 430

PHAR 531
Structured Professional Practice Experience IV
Credit Hours: 4
SPEP IV (PHAR531) 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 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 532
Structured Professional Practice Experience V
Credit Hours: 4
SPEP V (PHAR532) 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 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 533
Structured Professional Practice Experience VI
Credit Hours: 4
SPEP VI (PHAR533) is the sixth 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 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 535
Pharmacy Management
Credit Hours: 2
The Pharmacy Management course aims to provide comprehensive management overview in terms of concepts pharmacy practitioners who are entering employment in any capacity within the field of pharmacy. This involves fostering the acquisition of knowledge and skills required to excel in the areas of entrepreneurship, resource management, business operations, value added services, marketing and risk management. Group discussions with some role models in the field of management will be utilized to enhance learning, facilitate communication, critical thinking, problem solving, and team building skills. The course follows up on some of the contents in courses PHAR450 (Health Care Delivery System) regarding pharmacy administration while giving more focus and details to resource management, risk management and managing value added services.

PHAR 545
Pharmacy Elective III
Credit Hours: 3
Pharmacy Elective III (PHAR545) is the third in a series of three elective courses for P-3 and P-4 students. In 104V, PHAR545 will be delivered as a two-part course lecture to provide the student with an opportunity to enhance their research skills. The first component of PHAR545 will involve the required attendance and participation at the Faculty Research Seminar. The second component will be a research opportunity for students whereby 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. Selected topics in pharmacoeconomics and to further enhance their research projects. 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

PHAR 590
Integrated Case-Based Learning V
Credit Hours: 2
Integrated Case-Based Learning V (PHAR590) is the final course in a series of five (PHAR390, PHAR391, PHAR490, PHAR491, PHAR490) 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 in the content of this course. For this course, emphasis will be on the comprehensive delivery of pharmaceutical care to patients with multiple co-morbidities. In addition, this course will include some didactic lectures on topics which have not yet been addressed in the Pharmacotherapy series. 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, emphasizing using pharmacy patients to enhance the content area with consideration of the social and economic dimensions of medication management.

Prerequisite: PHAR 491

PHIL 100
Logic and Critical Thinking
Credit Hours: 3
In this course, we will study and practice the basic principles and methods of logic and critical thinking.

PHIL 111
Introduction to Philosophy
Credit Hours: 3
This course is an overview to the problems of philosophy throughout ages. It tackles the following topics:

- 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

Critical Thinking
Credit Hours: 3
This class, 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
In this course, we will examine the philosophical 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 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 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 subjects and skill areas, and on problems that are highly relevant to the students' lived circumstances.

Prerequisite: PHIL 100 AND PHIL 110

PHYS 101 General Physics I 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, Basic of Fluid mechanics, Thermal properties of matter, Electrostatics of Electric Circuits, Electricity and the human body, Sound and light, Optical instruments, and Radiation and Radiation protection.

PHYS 111 Practical Physics For Biology Credit Hours: 3

This is the Lab-based course to supplement the lecture material of PHYS 110. 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, students execute a series of experiments on Dynamics of motion, Oscillatory motion, Thermal properties of matter, Electromagnetic optics, Viscosity, Spectroscopy, and Radioactivity. The course includes computer-based experiments in Classical Mechanics.

Prerequisite: PHYS 110 Concur.
energy, capacitors, stored energy in capacitors. The
and lines of force, Gauss's law, potential and potential
charging and induction, Coulomb's law, the electric field
Electrostatics: Electric charges, atomic structure,
PHYS 193
PHYS 191
PHYS 192
Prerequisite:
Oscillatory motion, Thermal properties of matter,
the course students execute a series of experiments
data analysis, and scientific reporting of lab work. During
developing student's skills in experimental techniques,
Focus is given to new developments in public
course deals with microeconomic theory, and the use
to the economic analysis of public policy issues. The
charged particles and electric charges- Classical Physics
magnetic field: the force between parallel conductors
magnetic field and magnetic forces - sources of
Properties of Matter: Magnetic material, molecular theory of
ferromagnetic, hysteresis, Magnetic Fields and Electric Forces: Magnetism and magnetic fields, magnetic flux,
motion of charged particles in magnetic fields, force on a conductor, torques on current loops, Biot-Savart law, force between parallel conductors, Ampere's law, motional
Prerequisite:
Angular Position, Velocity and Acceleration- Rotational Kinematic 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 Fig
Prerequisite: MATH 101
This is the Lab-based 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 students execute a series of experiments on electrostatic fields, Magnetic fields, Induction, DC circuits, and AC circuits.
Prerequisite: PHYS 193 Concur. AND PHYS 191 AND PHYS 192
PHYS 201 Renewable Energy
Credit Hours: 2
Prerequisite: PHYS 102 AND PHYS 103
POPL 100
Introduction to Public Policy and Analysis
Credit Hours: 3
Public policy incorporates policy formulation, analysis, evaluation and management as well as an understanding of the policy process in order to analyse and implement public policy. Through this course, students develop competence in important analytical tools for the study of public policy. Students learn how to evaluate implications of policies for efficiency and equity, and to employ basic research methods to interpret and present data relevant to policy considerations. The course also establishes the conceptual foundations and craft skills relevant to policy analysis. Students learn how to define policy problems, determine goals, design policy alternatives, and systematically assess trade-offs to make recommendations
POPL 200
Ethical Development of Public Policy
Credit Hours: 3
The course examines major moral controversies in public life and seeks to help students develop the skills required for thinking and writing about the ethical considerations that ought to shape public institutions, guide public authority, and inform the public's judgments
POPL 210
Disaster Planning and Crisis Management
Fundamentals
Credit Hours: 3
Disaster planning focuses on understanding evidence based best practices for disaster operations and all aspects of disaster resilience. If center on the role leadership plays in guiding disaster operations and policy across all phases of the disaster life cycle from preparedness to response, recovery and future risk reduction. Specific topics covered include organizational theories of disaster management, logistics/supply chain management, decision analytic frameworks and methods, approaches and issues related to protection of beneficiaries and staff, and advocacy in crisis management settings. Learning objectives focus on developing student competencies in these areas
POPL 221
International Energy Issues
Credit Hours: 3
Economic growth requires constantly growing use of energy, the Middle East plays a vital role as exporters of hydrocarbons to the rest of the world. The course will cover: 1) Global energy demand and supply scenarios and the role of the Middle East; 2) The functioning of the global oil market and the potential role of major oil exporters; 3) The resource curse, economic diversification, and the experience of the Gulf countries; 4) Oil, accountability, and corruption; and 5) Nuclear energy
POPL 228
Introduction to Energy Law and Policy
Credit Hours: 3
This course will cover the major types of regulation and market oversight that apply to energy systems. Topics covered will include extraction of oil and gas; siting and regulation of infrastructure; operations and control of the international market for crude oil and products; basic principles of rate regulation and public utilities; regulatory reform in electricity and gas; stranded costs such as nuclear power investments; major environmental regulations that apply to the energy sector and the implications of new climate change and renewable energy mandates for the electric power sector. Most of the course will be empirical, but attention will be given to major theories of market failure as well as policies and political economy that explain when, why, and how governments regulate energy systems, as well as how energy issues are entangled in deeper social and environmental contexts
POPL 229
Public Finance
Credit Hours: 3
This course provides a wide treatise in the 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
Prerequisite: MATH 119
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 agreements will also be included, as well as equity considerations on a global level
and planning at local, regional, and state levels, participation, new urbanism concepts, equity concerns, comprehensive and strategic planning, community planning roles. Students will focus their studies on planning models, planning decisions, and alternative analyses and discussions are devoted to urban planning perspectives. 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 analytical techniques used in impact assessment.

This course addresses legal systems and criminal justice policy is examined. In the context of theoretical paradigms, this course will provide the necessary tools for participatory in the policy process through a combination of writing and oral presentation assignments. Course topics will be explored through reading and discussion of both scholarly work and case studies.

This course addresses legal systems and criminal justice policy. Emphasis is on the examination of media and public relations as mechanisms to shape criminal justice responses and policy initiatives. In the context of theoretical paradigms, the impact of race, class, economics, and gender on development of criminal justice, legal systems and public policy is examined.

This course focuses on the international frameworks for managing risk management; environmental risk management, and risk financing for the energy sector. The course uses a different aspect of Public Policy or public services. This course focuses upon topics such as economic growth and personal well-being; economic policy inequality and poverty; intra-housing risk allocation and gender inequality; population change, credit markets and microfinance; labor markets and trade policy.

This course offers an intensive analysis of the major public policy issues and methodological problems encountered in the production, financial, and consumption of housing. Students will examine and evaluate current housing issues in the context of the rapid urbanization, and an emphasis on the issues of: housing inventories, residential location, residential financing, household movement, housing densities, design types, public specific housing policies, and the social, economic, and political aspects of housing for minority groups. The future of housing and housing research needs are stressed.
provide students with a comprehensive overview of the economic, social, and regulatory forces that influence land use and investment decisions in urban regions. As both regional and global environmental issues are beginning to influence the long range planning of metropolitan areas worldwide, the course will consider the role of emerging transportation and telecommunications technologies in the development of a sustainable model for urban growth. Particular attention will be focused on the implications of urban air pollution, water quality and availability, and climate change for regional land use and transportation planning.

Prerequisite: POPL 245

POPL 370 Urban Sustainability Credit Hours: 3

This course involves a reappraisal of urban development, as well as environmental, socio-economic policies against an examination of the role of cities in global environmental change. The role of cities are examined regarding how they play in the larger question of sustainability and also in the preservation of heritage. Moreover, the course provides students with an understanding of the different theories regarding sustainability in an urban environment and how they have evolved.

Prerequisite: POPL 221

POPL 387 Energy Conservation Credit Hours: 3

This course provides an examination of how governments can provide clean, safe, environmentally sustainable energy supplies. The course examines communities through the perspective of sustainability and how they might be used more efficiently. Students will examine and investigate various renewable energy sources.

Prerequisite: POPL 210

POPL 392 Post-Disaster Recovery and Planning Credit Hours: 3

This course examines reconstruction planning in areas, countries or regions that have experienced crises or disasters. The course also examines reconstruction area characterized by week governance and infrastructure. This course is applied through a case study approach.

Prerequisite: POPL 340

POPL 400 Public Leadership and Policy Development Credit Hours: 3

This course will consider the ethical, legal, and operational frameworks for effective, responsible public leadership. Students will review relevant literature from history, politics, organizational theory, and human resource management; discuss the central policy issues in each case; and evaluate the decision making processes exemplified by the leaders in each case. Students also will consider fundamental leadership questions, such as: What do leaders actually do? What kinds of traits are important for successful leadership? How do followers influence the behavior of leaders? And what impact does exercising power have on your personality? The course draws from classical political theory, current leadership literature, and case studies of decision making.

POPL 420 Energy & Global Security Credit Hours: 3

This course prepares students for rigorous, policy relevant research of the major threats to international and national security in the 21st century and the relevant forces that will confront those threats. Topics of study will include terrorism; proliferation of weapons of mass destruction; national and regional and global distributions of capabilities; insurgency, civil war, and regional political instability; military force composition and capability; civil military relations; and new innovations in military technologies.

Prerequisite: POPL 221

POPL 431 Economic Policy Approaches to Sustainability Credit Hours: 3

This course analyses current policy options for addressing sustainable development from an economic perspective. The focus of the course is on understanding the two main alternatives for a comprehensive market based environmental policy: cap and trade and carbon taxation. These policies will be compared to each other and to regulatory approaches, and the various design details necessary to implement such a system will be discussed. The course will also analyse existing policies in the transportation, agricultural, and energy sectors.

POPL 432 Sustainability Planning and Protection of Cultural Resources Credit Hours: 3

The course links together theoretical debates about sustainability and the protection of cultural resources with the practical dimensions of environmental policy formulation and its implementation. The planning system is taken as a reference point because it provides one of the most sophisticated mechanisms for regulating environmental change. Students gain an insight into problem definition and the application of leading edge solutions to those problems by business, government, and regulatory bodies.

Prerequisite: POPL 230

POPL 439 Environmental Impact Assessment Credit Hours: 3

This course seeks to introduce students to environmental impact assessment. Particular attention will be given to the concepts used in understanding how to interpret relevant laws and regulations in this regard. The course will adopt a case study approach through and will offer students a project based assessment where an environmental impact assessment is developed.

POPL 450 Urban & Regional Economics Credit Hours: 3

Urban economics is the study of cities, of the economic activities therein, and of the determinants of these activities. This course studies the main economic forces that lead to the emergence of cities and regional agglomeration, and the effects on worker productivity, urban amenities, and congestion. Students will discuss the problems in measuring these urban characteristics, the methodologies to do it, as well as the design of optimal urban policy. Students also will study the economic theory and evidence on the internal structure of cities, as well as the policies that can enhance urban living. Finally, the course analyzes the role cities play in aggregate economic development.

POPL 452 Urban Planning & Development Credit Hours: 3

Planning professionals define, analyze, and solve urban problems on many different scales. The planning process engages businesses, communities, citizens, and elected officials to define, organize, and conduct work in the physical, natural and social environments. Urban planning aids public administrators in making better decisions about problems related to: land use, transportation, housing, economic development, and appearance and design of communities.

Prerequisite: POPL 353

POPL 470 Communication Fundamentals for Leaders in Public Policy Credit Hours: 3

This course provides an overview of major theories, key concepts, application strategies and research methods of communication theories and the interplay among leaders in public policy, the mass media, society, and individual citizens. It covers: 1) both classic communication theories and new approaches as related to multimedia and online communication; 2) the operation, process, and effects of the media and related communication industries; 3) various research methods in mass, interpersonal, organizational and intercultural communication; and 4) the interrelationship among communication, media and society.

Prerequisite: POPL 245

POPL 485 Public Policy and Knowledge based Economy Credit Hours: 3

This course provides a wide treatment in the 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 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.

Prerequisite: POPL 245

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.

Prerequisite: POPL 245

POPL 488 Public Policy Planning and 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, visual 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.

Prerequisite: 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.

POPL 499
Capstone
Credit Hours: 3
This Capstone course allows students to explore their workplace interest, produce an original report that meaningfully contributes ideas to their respective workplace area of interest—such as in government and the non-profit sector. This experience opportunity for students to explore their career interests with greater intensity than is possible in a single course. Through development of a report, students demonstrate their experience with design, execution, analysis, and presentation of ideas within their respective chosen profession.

PSYC 201
Fundamentals of Psychology
Credit Hours: 3
This course is intended for the scientific study of the behavior of the organism that aims to familiarize students to the history, theories and applications of psychology and its various fields of study as well as the research methods that explain the behavior. This course offers a large number of topics including: research methods in psychology, statistics, biological bases of behavior, learning, memory, sensation and perception, personality, normal and abnormal behaviors. This course is a step for the specialization in the field of psychology.

PSYC 202
Health Psychology
Credit Hours: 3
This course is intended for the scientific study of the behavior of the organism that aims to familiarize students to the history, theories and applications of psychology and its various fields of study as well as the research methods that explain the behavior. This course offers a large number of topics including: research methods in psychology, statistics, biological bases of behavior, learning, memory, sensation and perception, personality, normal and abnormal behaviors. This course is a step for the specialization in the field of psychology.

PSYC 206
Introduction to Social Psychology
Credit Hours: 3
Social Psychology is the scientific study of the way in which people's thoughts, feelings, and behaviors are influenced by the real or imagined presence of other people. This course will focus on three major categories: (a) thinking about the self and the others, (b) evaluating persons and relationship, and (c) interacting with other people. Thinking about the self. Evaluating persons and relationships involves attitudes, attitude change, prejudice, interpersonal attraction, and close interpersonal power, and groups.

Prerequisite:
PSYC 201

PSYC 207
Developmental Psychology
Credit Hours: 3
An overview of the psychology of human life span development including intellectual, social, and emotional aspects of the normal individual, with a major emphasis on childhood and adolescent development.

Prerequisite:
PSYC 201

PSYC 303
Abnormal Psychology
Credit Hours: 3
In depth study of classifications, symptoms, and etiology of psychological disorders and behavior pathology.

Prerequisite:
PSYC 300

PSYC 304
Cognitive Psychology
Credit Hours: 3
An examination of theory and research on attention, memory, language, comprehension, reasoning, problem solving, and decision making. Course includes recitation and laboratory.

Prerequisite:
PSYC 206

PSYC 306
Emotion & Motivation
Credit Hours: 3
This course surveys research findings and theories in the field of motivation and emotion. Animal and human studies are examined and the interaction between motivation and emotion with a heavy emphasis on their psychological foundations.

Prerequisite:
PSYC 206

PSYC 400
Prin. of Cognitive Beha Therapy
Credit Hours: 3
This course includes students with the basic principles of cognitive behavior therapy as an important model of therapeutic intervention. The course allows students to review and apply the fundamental aspects of cognitive therapy.

Prerequisite:
PSYC 304

PSYC 401
Psychological Helping Skills
Credit Hours: 3
This course introduces students to basic helping skills used by mental health professionals and explores empirically supported models of the helping and change process. Students are given opportunities to apply the skills learned.

Prerequisite:
PSYC 303 AND PSYC 304

PSYC 402
Counselling Over the Lifespan
Credit Hours: 3
This course covers counseling strategies to enhance human development, strategies based on major findings of developmental theories and research from infancy to late adulthood.

Prerequisite:
PSYC 401

PSYC 403
Psychophysiology
Credit Hours: 3
Examination of the anatomy and physiology of several physiologic systems, the relationships between behavior and physiology, and the importance of individual differences in physiological responses.

Prerequisite:
PSYC 301

PSYC 404
Psychology of family relations
Credit Hours: 3
The course invites students to think about the family unit in terms of its systemic and relational processes. It discusses the reciprocal relationships between family functioning and child development. The course introduces students to types of families and helps them to identify and to distinguish between functional vs. dysfunctional families and family processes. It also introduces family measurement issues in clinical practice and research while remaining sensitive to family variability (ethnic, socioeconomic, structural, and special needs).

Prerequisite:
PSYC 206

PSYC 405
Practicum
Credit Hours: 6
This 250-clock hour’s field practicum placement builds on the competencies and skills student gained during their academic training in Psychology. Students in their field placements will engage in professional activities and events that will help develop essential Psychology
practice skills. The field practicum is educationally directed, coordinated, and monitored for all students. Structured learning activities are tailored to 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 other psychology course.

Prerequisite: PSYC 221 and PSYC 400 AND PSYC 401 AND PSYC 403

PSYC 406 Capstone
Credit Hours: 3
Building on their coursework and mentoring, students take a Capstone Experience in which they apply their knowledge and critical thinking to everyday psychological challenges facing clients in real world settings. They may take their field experience with such professionals as counselors, therapists, clinical psychologists, and school psychologists.

Prerequisite: PSYC 221 AND PSYC 405 Concur. AND PSYC 403 AND PSYC 401 AND PSYC 400

PSYC 410 Social Psychology
Credit Hours: 3
Social Psychology is the scientific study of the way in which people perceive, judge, and react to others. Social psychology is the study of social influences on people. This course covers various topics, such as research methods in social psychology, group dynamics, social interaction, attitudes, values, prejudice, socialization process, anti-social/ pro-social behavior, and social power.

PUBH 101 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 151 Biostatistics for Health Sciences Credit Hours: 3
This introductory course provides students with the foundational knowledge and skills of biostatistics as tools for understanding statistical information presented in published research or needed to conduct research. It demonstrates the link between principles of sound research methods, biostatistics, and epidemiology in the critical appraisal of research. It starts by introducing basic principles of research methods and epidemiology followed by the application of biostatistics as related to health and medical sciences and includes a practical component which introduces students to the basic skills related to the use of statistical software (SPSS) and its application in describing, summarizing, and drawing inferences.

PUBH 200 International Health and Global Society 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 dealing with their challenges. Students will take an active role in analyzing international health organizations and come away with an understanding of the effectiveness of global health on 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 diseases are related to billing and payment

PUBH 207 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 the 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 evaluation 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 Biostatistical Methods for Public 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 Concur.

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 205 Research Methods for Public 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
The revolution in information technology has affected health topics, the course will address mass media and health. Skills in oral and written public health-specific communication and their application to the field of health.

This course will examine the basic theories of needs assessments and health education planning. Students will engage in an intensive study of the processes involved in conducting financial management and formulating financial policies.

Prerequisite: PUBH 303 AND MAGT 101

PUBH 390 Field Experience Credit Hours: 3
This field experience is an internship experience designed to integrate public health theory, knowledge, and skills in a practice setting, which results in a written report that demonstrates problem solving skills, is overseen by a faculty member, and is designed around a major issue in one of the core disciplines in the degree.

Prerequisite: PUBH 101 AND PUBH 205

PUBH 420 Design of Program Evaluation Systems Credit Hours: 3
This course provides content in theory, concepts, and research design, 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 also will 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 for Women Credit Hours: 3
This course focuses upon women's health concerns, 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 303 AND NUTR 221

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.

PUBH 101

PUBH 101 AND PUBH 205

PUBH 499 Capstone Credit Hours: 3
Building on the field experience, the Capstone Project represents the culmination of a major practice or research activity. The Capstone consists of: a formal written manuscript that reflects scholarly research and analysis of a discrete and societally relevant topic in public health and that will become part of the Public Health Sciences archives; a formal public presentation open to students and faculty; and an oral defense, consisting of questions by the student's committee. The Capstone Project also is consistent with the career goals of the student, and it should be viewed as a culminating display of ability. Demonstrating that the graduate is prepared to become a professional in the field of Public Health Science.

Accordingly, the Capstone Project is intended to familiarize students with the rigor of preparing a quality presentation in professional journals, major policy reports, and in meeting excellence requirements in writing and oral presentation, all of which reflect comp.

Prerequisite: PUBH 303 AND PUBH 390 AND (PUBH 222 OR MAGT 101)

SOCI 120 Introduction 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 on how individuals navigate and negotiate the different social and economic 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, cultural anthropology, linguistic anthropology, and archaeology). This course will also be capstone experience for the major in anthropology, providing an opportunity for students to integrate and apply the knowledge and skills they have acquired in their coursework. Students will be expected to demonstrate proficiency in using the appropriate methods and tools for conducting anthropological research. This course will focus on the development of research skills and the critical analysis of anthropological data, with an emphasis on fieldwork and the collection of primary data. Students will be required to engage in an independent research project that involves the design, execution, and analysis of their own anthropological research.
linguistic anthropology, archaeology, and sociocultural anthropology). The central focus of this course will be on the last of those sub-disciplines. Students will explore the historical development of anthropology, the primary theoretical frameworks it has developed, and the methods anthropologists utilize in the field. Students will also have 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 the Arabian 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 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:** SOCI 120 OR SOCI 203 OR SOCI 247 OR SOCI 241 OR SOCI 121

**SOCI 262 Qualitative Methods Credit Hours: 3**

Qualitative methods provide a second methodological frontier in the social sciences and a key complement to quantitative research. In this course, students will be trained in qualitative research methods, focusing on ethnographic methods. Ethnographic methods, frequently utilized by anthropologists, geographers, political science, sociologists, international development specialists, and many other disciplinary practitioners, take a holistic approach to social research. In this course, students will have the opportunity to practice these methods in the field, and to deploy their training in the implementation of an independent research project of their own design. Field-based projects and exercises are central to this course.

**Prerequisite:** SOCI 120 OR SOCI 203 OR SOCI 247 OR SOCI 241 OR SOCI 121

**SOCI 263 Bedawi 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 livelihood of Bedouin nomads, the pastoral mode of production, and the traditional interconnections between these nomads and the villages and towns of the Arabian Peninsula. In the second portion of the course, students will evaluate the impact of modernization and urbanization upon the Bedouin peoples, changes in the pastoral livelihood, and the intricate relations between Bedouin peoples and the state. This course includes a significant independent research project.

**Prerequisite:** SOCI 120 OR SOCI 247 OR SOCI 241 OR SOCI 121

**SOCI 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 over place. In this course, students will investigate the wide range of strategies and kinship systems to 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:** SOCI 203 OR SOCI 247 OR SOCI 241 OR SOCI 120

**SOCI 265 Population & Migration Credit Hours: 3**

Demography and populations studies have long been important to 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 social and cultural 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:**

**SOCI 120 OR SOCI 203 OR SOCI 247 OR SOCI 241 OR SOCI 121

**SOCI 267 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 urbanism and urbanization. Specific attention will be given to what those theorists have 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:** SOCI 120 OR SOCI 247 OR SOCI 241 OR SOCI 121

**SOCI 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 analyze the organization of 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:** SOCI 120 OR SOCI 203 OR SOCI 247 OR SOCI 241 OR SOCI 121

**SOCI 269 Sociological Theory Credit Hours: 3**

This course is an in-depth survey of the enduring core theories and works 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 constructed 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:** SOCI 120 OR SOCI 203 OR SOCI 247 OR SOCI 241 OR SOCI 120

**SOCI 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 surveyed 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 tradition), 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:** SOCI 121 OR SOCI 203 OR SOCI 247 OR SOCI 241 OR SOCI 120

**SOCI 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 worlds that continue to characterize our world. In this course, students will utilize the comparative approach to build an understanding of social and cultural difference through the analysis of different social and cultural systems. Students will explore how these cultural differences come about, the factors that either foster or prevent cultural change, and the various theories scholars use to grapple with culture and cultural change.

**Prerequisite:** SOCI 120 OR SOCI 203 OR SOCI 247 OR SOCI 241 OR SOCI 120

**SOCI 363 Ethnicity Credit Hours: 3**

Ethnicity is typically defined as common identity based upon a presumed or real common heritage, recognized
by both the group in question and others in the world. At the same time, however, the concept of ethnicity has a long and complex historical and cultural evolution, and 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 race. While the focus of the course will be global, many case studies will be drawn from Qatar and the other Gulf States.

**SOCI 364 Violence**

**Credit Hours:** 3

In its many forms, violence seems to be an enduring facet of human society. This course focuses specifically 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 criminology, human trafficking, and much more. While the focus of the course is global, students will have the opportunity for the practical application of these ideas in analyses of Qatar.

**Prerequisite:** SOCI 121 OR SOCI 203 OR SOCI 247 OR SOCI 241 OR SOCI 120

**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 initially on how groups divide labor between men and women: how they construct ideologies and social frameworks to maintain and naturalize these social divisions, and how both men and women experience gender, endure and challenge the gender-based constraints in the contemporary world. While the focus of this class is global, 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 203 OR SOCI 247 OR SOCI 241 OR SOCI 121

**SOCI 366 Language & Communication**

**Credit Hours:** 3

This course explores the role of the media in the contemporary social, cultural, and political landscape. Our focus, while broad, will devote special attention to Arab media in general, and Qatari Media in particular. The course also investigates the overarching issue of globalization and the impact of western media on non-western cultures. This investigation will include analysis of the proliferation of the Internet, the impact of media upon body image, and the cult of celebrity.

**Prerequisites:**
- SOCI 120 OR SOCI 203 OR SOCI 247 OR SOCI 241 OR SOCI 121
- SOCI 367 Comparative Religion

**Credit Hours:** 3

This course approaches religion as a cultural system which provides a model of reality, a framework for organizing that reality, and the architecture of the individual’s relationship 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.

**Prerequisites:**
- SOCI 120 OR SOCI 203 OR SOCI 247 OR SOCI 241 OR SOCI 121
- SOCI 368 Law & Society

**Credit Hours:** 3

This course examines the interaction of law with the various aspects of society in the contemporary world. Students will explore the organization of legal institutions, doctrines, and practices on other social phenomena, 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.

**Prerequisites:**
- SOCI 120 OR SOCI 203 OR SOCI 247 OR SOCI 241 OR SOCI 121

**SOCI 460 Statistics In The Social Sciences**

**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.

**Prerequisites:**
- SOCI 360 OR SOCI 340 OR SOCI 341 OR SOCI 340 AND (SOCI 360 OR SOCI 392 ) OR SOCI 344 AND (SOCI 262 OR SOCI 443 ) OR SOCI 343 OR SOCI 242

**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, 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

This course examines the overarching issue of change in the Arabian Peninsula, have undergone significant and rapid change over the last decades. This course utilizes the sociological and anthropological toolkit to grasp the scope and breadth of that change. Themes explored in this class include, but are not limited to, shifting gender roles and the place of women in Arab society, youth and youth culture, family and kinship in the contemporary era, migration and urbanization in the Gulf States, the impact of globalization upon the peoples and cultures of the Arabian Peninsula, and the role of media in Arab cultural change.

**Prerequisite:**
- SOCI 120 OR SOCI 342 OR INTA 306 OR SOCI 340 OR SOCI 341 OR SOCI 262 OR SOCI 243 OR SOCI 240 AND (SOCI 360 OR SOCI 342 OR SOCI 247 ) OR SOCI 241 OR SOCI 203 OR SOCI 121

**SOCI 463 Labor & Class-Petrol Society**

**Credit Hours:** 3

This course explores the history of the concept of a “Petroleum Society” and its implications for the Gulf’s economic future. The course begins with an exploration of 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 social, political and social factors shaping work expectations among Gulf locals.

**Prerequisite:**
- SOCI 360 OR SOCI 340 OR SOCI 341 OR SOCI 304 OR SOCI 342 OR SOCI 204 OR SOCI 243

**SOCI 464 Social Policy & Planning**

**Credit Hours:** 3

This course is designed to introduce students to the study of 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, conceptual and methodological toolkit they’ve developed over time to address the problems in human society and, more specifically, in Gulf Society.

**Prerequisite:**
- SOCI 360 OR SOCI 340 OR SOCI 341 OR SOCI 304 OR SOCI 342 OR SOCI 204 OR SOCI 243

**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 frameworks to explore the social organization 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.
The first of two social work research courses, this course introduces various social work research methods and tools. 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 OR STAT 101 AND STAT 153

SOWO 361 Society & Human Rights Credit Hours: 3
The course discusses social work between the concept universality 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 United Nations in dealing with the social issues.

Credit Hours: 3

SOWO 370 Children and Family Practice & 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 interventive approaches, managing cases to optimally meet children and family needs.

Prerequisite: SOWO 101

SOWO 400 Social Welfare Policy & Services II Credit Hours: 3
As the second of the two social work 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

Prerequisite: SOWO 410

Social Work Research Methods II Credit Hours: 3
As the second of the two social work research courses, this course gives the 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 Work Generalist 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 families. This course emphasizes the basics of communication, interviewing, relationship building and professional use of self. This course examines problem solving, interviewing, professional relationships, intervention planning and skills, and ethics. Content on values, ethics, diversity, social and economic justice and populations at risk are infused throughout the course.

Prerequisite: SOWO 350

SOWO 430 Social Work Generalist Practice III Credit Hours: 3
As the third generalist practice course, this course expands further 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. 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 430 AND SOWO 400

SOWO 441 Social Work Practicum Credit Hours: 12
This is a 120 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 learning opportunities 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 100 Basic Spanish Credit Hours: 3
This course provides an introduction to Spanish communication, with a focus on speaking and listening comprehension. Students will learn key vocabulary and basic Spanish grammatical structures. Students will learn to conduct simple social work practice as they hear and read authentic language relating to familiar topics. To boost their listening comprehension skills, students will be exposed to multiple authentic audio-visual materials in the language lab.

Credit Hours: 3

SPAN 101 Spanish 1 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 110 Intermediate Spanish I Credit Hours: 3
This course provides students with a thorough grounding in the four language skills: reading, writing, speaking and comprehension. It will also introduce the culture of Spain and the Spanish-speaking world. Aided by state-of-the-art language learning software, students will learn and practice Spanish for practical purposes, such as communicating in basic social situations, meeting routine travel needs, obtaining food and lodgings, carrying out simple transactions, and giving biographical details. The course provides an introduction to Spanish-speaking cultures and literatures. Students will also learn to write short messages and well-articulated sentences in Spanish on familiar topics, and by the end of the course the student can be expected to display appropriate everyday culture in the Spanish-speaking world.

Prerequisite: SPAN 100

SPAN 111 Intermediate Spanish II Credit Hours: 3
This course reviews and reinforces the language skills learned in Intermediate Spanish I to help students develop proficiency in the four skills: reading, writing, speaking and comprehension. This course is intended to increase students' proficiency in the language and broaden their understanding of Spanish-speaking cultures and literatures. It will help student to develop vocabulary, improve pronunciation, learn new idiomatic expressions and increase understanding of basic language structures. Students will be expected to broaden vocabulary for both reception (listening and reading comprehension) and production (speaking and writing). The course focuses on use of the language in context, and will therefore include use of authentic readings, discussion in Spanish, and film clips.

Prerequisite: SPAN 110

SPAN 200 Language, Culture and Society Credit Hours: 3
This course offers a study of the history of Spanish-speaking countries with emphasis on political, social, intellectual, and artistic aspects of Spanish civilization. It includes various analyses of the role of Spain on the international scene and includes study of articles drawn from the Spanish press, recent films, and current Spanish television news. Students will deepen their knowledge of the chronology of Spanish civilization and identify the major intellectual and artistic movements, their defining characteristics and contexts. Students will be given an overview of the most important movements and authors in the Spanish literary canon and taught to
place literature in a meaningful cultural and historical context. Students will be taught how to analyze and make connections between events, movements, and ideas for the time periods covered in this course.

SPAN 210
Spanish for Oral Communication I Credit Hours: 3
This course develops students' speaking ability in Spanish by providing opportunities for conversation practice. The main emphasis will be on oral practice but attention will also be paid to grammar, written production and presentation as well as discussion of various topics of general interest in Spanish. Students will learn and practice Spanish for practical purposes, such as communicating in basic social situations, meeting routine travel needs, obtaining food and lodgings, carrying out simple transactions, and giving biographical details. The language lab will be used to enhance students' learning experience through specific self-study exercises aimed at boosting communication skills.
Prerequisite: SPAN 110

SPAN 211
Spanish for Oral Communication II Credit Hours: 3
This course focuses on developing practical vocabulary, idiomatic expressions, professional terminology and cultural interactions on a variety of topics such as language for use in a variety of professions. It will improve students' ability to use Spanish in real-life situations and for real-life purposes, as well as focusing on special topics, cultural events, and cultural issues currently in the news. It will give an overview of contemporary Spanish culture and business practice, and guide students through practical processes such as organizing travel and tourism in Spanish-speaking countries, navigating Spanish social systems and bureaucracy, and interacting with the Spanish.
Prerequisite: SPAN 210

SPAN 221
Spanish Composition I Credit Hours: 3
This course develops students' writing and speaking ability in Spanish through models of style, related grammar, composition exercises, and the World Wide Web. It also reinforces the language skills presented in Intermediate Spanish I and II through an intensive review of grammar, written exercises, an introduction to composition, lexical enrichment, and spoken skills. Comprehension and speaking are developed through the use of cinema, music, conversation, and other developing technologies. By the end of the course students will be able to create elaborated utterances in Spanish and group them into paragraphs and narratives.
Prerequisite: SPAN 110

SPAN 222
Spanish Composition II Credit Hours: 3
This course develops and refines written expression through a review of complex grammatical structures and idiomatic expressions. Students practice guided compositions and creative writing using factual reporting techniques and literary models. Students will improve their written Spanish and gain advanced training in comparative grammar and organizational structures. Students will be assessed on their ability to write about a variety of writing situations (for example, diaries, transcripts, narrations, letters and emails), as well as their fluency of usage in the written language. The course also focuses on the distinction between spoken and written styles.
Prerequisite: SPAN 221

SPAN 310
Spanish Phonetics Credit Hours: 3
This course provides an introduction to the sounds of Spanish, paying close attention to their place and manner of articulation (phonetics) as well as how they pattern with respect to each other and as influenced by morphological and syntactic factors (phonology). It teaches students basic phonetic rules in Spanish, including the phonetic alphabet and phonetic transcription. Specific language lab exercises will provide students with the opportunity to correct defects in pronunciation and intonation and give them a better understanding of the differences between the Spanish and English systems.
Prerequisite: SPAN 100

SPAN 311
Introduction to Spanish Literature Credit Hours: 3
This course offers a study of the history of Spain with emphasis on political, social, intellectual, and artistic aspects of Spanish civilization. It includes various analyses of the Spanish literature on the international scene and includes study of articles drawn from the Spanish press, recent films, and current Spanish television news. Students will learn to demonstrate knowledge of the chronology of Spanish civilization and identify the major intellectual and artistic movements, their defining characteristics and contexts. Students will also be given an overview of the most important movements and authors in the Spanish literary canon and taught to place literature in a meaningful cultural and historical context. Students will be taught how to analyze and make connections between events, movements, and ideas for the time periods covered in this course.
Prerequisite: SPAN 110

SPAN 321
Business Spanish Credit Hours: 3
This course focuses on introducing functional language skills in the world of Spanish business and business cultural competence. Students will be given further practice of specialized oral and written communication, as well as developing a commercial vocabulary dealing with the varied activities of a commercial firm (for example, advertising, transportation, banking). The course provides students with simulated business situations and exposure to authentic written and spoken materials, as well as teaching them the rules and formulas of formal business correspondence. Students will study the economic and business environment, and learn key technical terms and useful idiomatic expressions.
Prerequisite: SPAN 110

SPED 301
Foundations of Special Education Credit Hours: 3
This course provides broad knowledge and skills in special education covering: models, theories, philosophies, history, legal provisions, ethical and professional considerations, assessment, identification procedures, instructional strategies, and using the individualized education program (IEP) for students with disabilities.

SPED 302
Survey of Exceptionalities Credit Hours: 3
An introductory course covering the conditions and psychological characteristics of exceptional children. The course provides a foundation of basic knowledge about the range of disabilities that can adversely affect students' learning and schooling covering intellectual, language, speech, auditory, visual, behavioral, neurological, and physical impairments.

SPED 303
Behavior Management in Special Education Credit Hours: 3
This course focuses on identifying, recording, evaluating, and changing social and academic behaviors of special and diverse populations. The course presents best practices in classroom and behavior management – from organizing time, materials, and classroom space to strategies for managing individual and group student behaviors, transitions, lab activities, and other arrangements for classrooms in general and special education.

SPED 304
Collaboration with Families and Professionals Credit Hours: 3
This course provides candidates with knowledge and skills of collaboration and consultation in special education. Among topics covered are historical and current roles
of parents, family characteristics, communication and consultation skills, and resources in special education. The course emphasizes school violation, family interview, and developing skills necessary to pinpoint problems facing special persons with disabilities and their families when interacting with schools and community resources.

**SPED 305: Inclusive Practices through Special Education**
**Credit Hours: 3**
This course examines the social/emotional and academic services for students with disabilities in inclusive settings across age spans. The primary goal of this course is to introduce key strategies, and approaches that will assist in making the special education classroom more inclusive for all students. Topics covered include characteristics of disabilities, inclusive classroom practices, collaboration models, response to intervention, and the use of the individualized education program (IEP) to support students’ meaningful participation in general education.

**SPED 306: Educational Psychology for Special Educators**
**Credit Hours: 3**
This course introduces students to research-based concepts and principles about human learning, development, and motivation and how that knowledge is applied to classroom teaching. Topics covered include child and adolescent development, learning, motivation, information processing with special emphasis on study of the exceptional learner.

**SPED 307: Assistive Technology**
**Credit Hours: 3**
An introductory course which is designed for special education students. The primary goal of the course is to help prospective teachers learn about the basics of assistive technology and instructional technology in general applied to exceptional learners. It includes hardware for augmentative communication devices and adaptive tools and software designed to support the participation of individuals with disabilities in the school or larger community setting.

**SPED 308: Promotion of Mental Health in Children and Youth**
**Credit Hours: 3**
This course focuses on the assessment and educational and community support of children and youth with mental health disorders across different age spans, including disabilities and special needs with adjustment and approaches to services. The course helps students recognize and understand different disorders that they may encounter in their work as special educators, providing coverage of assessment and instructional approaches appropriate to their roles as educators and for general and special education settings.

**SPED 410: Infant, Toddlers, and Young Children with Disabilities**
**Credit Hours: 3**
This course examines typical and atypical child development from conception through the early years; all developmental domains, cognitive, social/emotional, physical and communicative will be addressed. The course will draw on theory and relevant clinical and empirical literature in the examination of the development of infants and toddlers with sensory, motor, cognitive and/or affective disabilities.

**SPED 411: Assessment in Early Childhood Special Education**
**Credit Hours: 3**
This course is designed to investigate assessment in early intervention and to apply knowledge of assessment instruments, curriculum and instructional strategies and program evaluation methods to intervention settings for infants, toddlers, and young children with disabilities. The course includes strategies of observation and assessment, identifying strengths, individualizing instructional plans, and adapting natural and classroom environments, curriculum and instructional methodologies to support the highest level of achievement for young children with disabilities.

**SPED 412: Curriculum and Methods in Early Childhood Special Education**
**Credit Hours: 3**
This course covers methods of teaching young children with intellectual disabilities. The course will provide an overview of curriculum and teaching models and strategies for addressing learning processes, motivation, communication and classroom management.

**SPED 413: Planning and Programming in Early Childhood Special Education**
**Credit Hours: 3**
The purpose of this course is to provide knowledge and skills necessary for planning intervention for young children with disabilities and children at risk for disability. Family guided intervention suggests that families are able to determine child family strengths, needs, important outcomes, and necessary services. The role of the interventionist or educator is to assist the family to achieve their outcomes by providing information, support and resources so that optimal services and programs can be provided.

**SPED 414: Early Childhood Language and Communication**
**Credit Hours: 3**
This course covers basic communication principles and anatomy as well as more complex hearing and language deficits. Students will learn how language is acquired, used, and the effects on communication with various typical and language disorders. The course examines the relationship between early childhood curriculum and language learning and how that applies to supporting the educational and development needs of children with communication disorders will also be addressed.

**SPED 415: Early Childhood Social and Emotional Development**
**Credit Hours: 3**
This course will address issues of social learning and behavior in childhood education with specific attention given to addressing the needs of and services for young children with social and emotional disorders. Various models of learning and motivation will be explored. The course emphasizes curriculum and models for educators to develop strategies that support and assist students in developing social and pro-social skills. This course will highlight current research regarding assessment and intervention considerations in communication, social interaction, and social skill building.

**SPED 416: Early Childhood Motor Learning**
**Credit Hours: 3**
This course will address physical disabilities in young children with specific attention given to classroom dynamics and strategies for addressing the motor needs of children with motor disabilities. The course is structured to engage students in developing and implementing strategies that support and accommodate the child’s physical needs. This course will highlight current research regarding assessment, intervention and accommodation.

**SPED 420: Children and Youth with Disabilities**
**Credit Hours: 3**
This course is an introduction to special education with implications necessary for planning intervention for children with disabilities. Emphasis is given to addressing the needs of and services for young children with motor disabilities. The course is structured to engage students in developing and implementing strategies that support and accommodate the child’s physical needs. This course will highlight current research regarding assessment, intervention and accommodation.

**SPED 421: Assessment for School-Based Special Education**
**Credit Hours: 3**
This course provides students with knowledge of current concepts and issues in the area of assessment in special education, with knowledge and skills in standardized assessments as well as curriculum based measurement. Current issues in assessment such as assessing students from diverse backgrounds and response to intervention (RTI) will be covered. The focus is on assessment for school-based special education.

**SPED 422: Curriculum and Methods for School-Based Special Education**
**Credit Hours: 3**
The purpose of this course is to prepare pre-service teachers to deliver academic instruction to students with disabilities in school-based settings. Specifically, participants in this course will develop a knowledge base of curricular approaches, and instructional strategies and techniques to meet the diverse learning needs of students with disabilities in primary, preparatory, and secondary schools. In addition, course participants will develop a repertoire of teaching skills to provide instruction to children and youth with disabilities.

**SPED 423: Planning and Programming for School-Based Special Education**
**Credit Hours: 3**
This introductory course addresses strategies for the development, implementation, and monitoring of Individualized Education Programs (IEPs) and related instructional planning for P-12 students with disabilities within the general curriculum (high incidence disabilities) or adapted curriculum (low incidence disabilities). Through this course, students are expected to demonstrate proficiency in applying the general education curriculum to develop appropriate IEPs and lesson plans for instruction.

**SPED 424: Prevention and Early Intervening in Schools**
**Credit Hours: 3**
This course will provide students with a working knowledge of the history and legal precedence for providing early intervention (EI) and early childhood special education (ECSE) services, characteristics of young children with special needs and their families, and effective instructional practices for working with this population. Students participate in field experiences throughout the semester providing services.
SPED 425 Special Education Support for General Education Credit Hours: 3
The course provides the knowledge and skills required in working as part of a multidisciplinary team to provide comprehensive wrap-around services for individuals with disabilities in general education settings. Assessment and instructional strategies to provide services that support standards-based education which meets students’ needs.

SPED 426 Interventions for Behavior Problems in School Settings Credit Hours: 3
The purpose of this course is to develop a knowledge and skill base of effective interventions, supports and materials to provide instruction to children and youth with disabilities who demonstrate behavioral problems. This course builds upon the information students have mastered in the characteristics, assessment and general procedures courses.

SPED 427 Transition Planning Credit Hours: 3
This course covers modifications of and additions to school programs to ensure that they are appropriate to the needs of adolescents with disabilities. Content includes coverage of medical and compensatory program models, transition programming, career and vocational education, post-secondary educational options, recreation and leisure, independent living, and self-determination and advocacy.

SPED 430 Students with Autism and Intellectual Disabilities Credit Hours: 2
Introduction and an overview of characteristics of individuals with autism or intellectual disabilities, particularly at the severe or profound level, and educational and behavioral adaptations for these individuals in diverse educational and community-based settings. Content includes definitions, etiology, and educational implications of these conditions. A major emphasis of this course is placed on the practicum experience. These experiences will allow the student to observe and participate in the use of a variety of teaching models with diverse populations.

SPED 431 Students with Physical, Health, and Sensory Disabilities Credit Hours: 3
This course explores the major physical, health, medical, visual, and auditory conditions that may adversely affect students’ performance in schools and so require the need for special education services. Coverage of definitions, causes, characteristics, potential impact on learning and school attendance, educational considerations, and instructional approaches for each set of disabilities across the age span.

SPED 432 Assessment Practices for Severe and Profound Disabilities Credit Hours: 3
Models and practices of assessment focusing on the range of unique needs of students with severe and profound and other low incidence disabilities in academic, social/ emotional, functional, adaptive behavior, and other domains. Use of formalized assessments and criterion-based and curriculum-based measures.

SPED 433 Curriculum and Methods for Severe and Profound Disabilities Credit Hours: 3
Models of curriculum and instructional approaches that balance standards-based education and individualized education supporting the functional needs of students with severe and profound disabilities and other low incidence disability conditions across a range of educational settings. Emphasis on data-based decision-making in the provision and revision of instruction and evaluation of student learning.

SPED 434 Planning and Programming for Severe and Profound Disabilities Credit Hours: 3
Application of assessment data, curricular models, and instructional methods to develop individualized educational plans and programs to realize those plans for students with severe and profound disabilities and other low incidence disabilities. Consideration of the balance between education appropriate to needs and education provided in inclusive settings. Identification of community-based resources that can support and advance the education and services provided to such students and their families.

SPED 435 Applied Behavior Analysis for Instruction Credit Hours: 3
This course focuses on the basic principles and procedures of applied behavior analysis; on identification of factors that contribute to behavioral problems and improved performance; and on procedures that can be used to minimize behavioral problems, to improve performance, teach new behaviors, and increase probability of behaviors occurring under appropriate circumstances.

SPED 436 Communication for Severe and Profound Disabilities Credit Hours: 3
Introduces professionals to augmentative and alternative communication (AAC) for individuals with severe speech and language impairments. Addresses the knowledge and skills needed to assess the potential AAC user, make team decisions, develop and implement instruction, and evaluate the effects of instruction, aimed at motivating, building, and expanding communication, choice making, and social interaction.

SPED 481 Student Teaching: Early Childhood Special Education Credit Hours: 9
This course will provide ongoing mentoring and reflection during a semester-long Student Teaching experience with young children with disabilities. Topics for study will emerge from intern’s 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 special education teacher in an educational setting or program. This course requires a significant number of field hours.

SPED 482 Student Teaching: School-Based Special Education Credit Hours: 9
This course will provide ongoing mentoring and reflection during the semester-long Student Teaching experience with students with disabilities in school-based settings. Topics for study will emerge from interns’ 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 special education teacher in a school-based setting or program. This course requires a significant number of field hours.

SPED 483 Student Teaching: Severely and Profound Disabilities Credit Hours: 9
This course will provide ongoing mentoring and reflection during a semester-long Student Teaching experience with students with severe and profound and other low incidence disabilities. 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 special education teacher in an educational setting or program. This course requires a significant number of field hours.

SPSC 101 Traditional and New Games Credit Hours: 3
The course focuses on the knowledge and understanding of traditional and new 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 200 Theory and Practice Individual Sports I Credit Hours: 3
The course introduces students to a typical example for individuals sports, selected amongst, e.g., athletics, swimming, judo, skateboarding, inline-skating etc. Through practical experience and theoretical reflection the students should develop their knowledge, skills and understanding of such an individual sport (one in course I and a further one in course II). The students will examine a range of issues that currently influence teaching, learning and promotion of individual sports by this selected example of an individual sport. In addition, they are acquainted with the necessities of acquiring coaching and judging competences in this individual sport.

SPSC 201 Theory and Practice (Team Sports) I Credit Hours: 3
The courses introduce the students to an example of a team sport. Through practical experience and theoretical reflection the students should develop their knowledge, skills and understanding of the chosen team 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 competences.

SPSC 202 Theory and Practice (Team Sports) II Credit Hours: 3
The courses introduce the students to further team sports, which should complement the experience by course I, e.g., co-active like in team-rowing or inter-active like in handball or inter-active like in tennis. Through practical experience and theoretical reflection the trainees should develop their knowledge, skills and understanding of the chosen team 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 competences by learning about similarities and
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 neurological control of movement, hormonal and basic 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 Theory and Practice Individual 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 complimentary experiences, e.g., process orientation like gymnastics or result orientation like athletics. Through practical experience and theoretical reflection the theoretical knowledge about athletic 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 competences in this selected example of an individual sport.

Prerequisite: SPSC 203
SPSC 206 Research Methods in Exercise Science and 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.

Prerequisites: MATH 103 OR MATH 101 OR MATH 119
SPSC 209 Biomechanics and Movement 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 Principles of Training and Coaching I Credit Hours: 3
The course introduces to general and specific theoretical principles 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 differences 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 and different levels of intensity, duration, and frequency. Different target groups are considered.

Prerequisite: BIOM 215
SPSC 305 Sport Marketing and Management 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. Social and cultural context of sport. Sport Sponsoring. Conclusions of the sport marketing specialties for sport management (planning, organizing, staffing, directing, controlling).

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
To understand facts and concepts of physiological functions of human body during physical activity and exercise, in children, adolescents and adults to include cardiovascular, respiratory, muscle and neurological control of movement, hormonal and basic biochemistry of exercise in hypobaric and hyperbaric environments, ergogenic aids and performance, sports nutrition, control and maintenance of body weight, sex differences and cardiovascular disease, and physical activity.

Prerequisite: SPSC 203
SPSC 308 Sport Psychology Credit Hours: 3
Examines the psychological, behavioral, social, cognitive, and humanistic perspectives in psychology of sport. The course focuses on all sports settings and includes topics such as optimal performance, correlation, motivation, co-action effect, self-actualization, psycho-behavioral techniques, self-efficacy, self-concept, self-esteem, and the general psychological health benefits of sport participation.

Prerequisite: PSYC 205
SPSC 309 Exercise and Aging Credit Hours: 3
Personal and social aspects of aging. Typical diseases and their consequences for physical activity of sport. Basic information on the psychology of old age. Aims and tasks of sports for seniors; basic principles of the theory of training of sports for seniors. Main emphasis of practical experience: planning, conduction and evaluation of fitness programs for aged people (people advanced in years).

Prerequisite: BIOM 215
SPSC 310 Principles of Training and Coaching 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 recreationally oriented athletes. Knowledge of physiological, motor and biomechanical principles as they apply to simple and complex movements in sports that directly involve performance 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 athletics 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 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
This 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 and effects 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 conditions 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
Understanding and potential causes of developing heart disease and/or hypertension. Thorough knowledge of physiology and pathophysiology. Appropriate exercise prescription for heart disease 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 rehabilitatory 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 the life span by exercise and sports.
Prerequisite: SPSC 206

SPSC 407 Sport Governance & Economics I
Credit Hours: 3
Examines sport governance with a focus on both professional and amateur governance structures and processes. The aim of the course is to develop students’ knowledge of the sporting sector and the policy, operational and leadership frameworks in which it operates. The course will emphasize structure and governance of sport within a variety of areas including professional team-sport leagues, the Olympic movement, and international sport associations.
Prerequisite: SPSC 407

SPSC 408 Sport Governance and Economics II
Credit Hours: 3
Examines sport organizations with a focus on both professional and amateur governance structures and processes. The aim of the course is to develop students’ knowledge of the sporting sector and the policy, operational and leadership frameworks in which it operates. The course will emphasize structure and governance of sport within a variety of areas including professional team-sport leagues, the Olympic movement, and international sport associations.
Prerequisite: SPSC 407

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 399

SPSC 450 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. Teacher candidates will recognize and understand how individuals at that age participate and respond in different situations and subsequently be able to introduce 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.
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 students the chance to experience the whole life cycle of development, design as well as experiencing effectively the realization of a sport science project.

**Prerequisite:** SPSC 206

**SPSC 499** Internship
**Credit Hours:** 6
This internship is a supervised student teaching action at primary and secondary or high school school settings. Students will spend 6 weeks in a primary, another 6 weeks in a secondary or high school. This internship provides field-based experience in selected areas of physical education in Qatar or international school settings. Students teaching includes to perform content knowledge, pedagogical knowledge and disposition as their final opportunity.

**Prerequisite:** SPSC 449 AND EDEC 411 AND SPSC 475

**STAT 101** Statistics I
**Credit Hours:** 3

**Prerequisite:** STAT 101 OR STAT 153

**STAT 151** Introduction 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
Statistical 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 AND STAT 152 OR STAT 153 )

**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:** ( MATH 103 or MATH 119 or MATH 101 ) and ( ENGL 111 or ENGL 202 or ENGL 204 or ENGL 040 or MATH 073 or ENGL 072 or TOEFL IBT 96 or TOEFL 500 or IELTS 5.5 or TOEFL CBT 173 or (Total for Integrated Core 400 and ESL Reading Skills 100 and ESL Language Use 100) or TOEFL Int Test Prog 500 or TOEFL Internet-based Test 601 OR TOEFL Computer-based Test 173 OR Int Eng Lang Test Syt-IELTS 5.5 OR ENGL 004 OR ENGL 111 OR ENGL 250 OR ENGL 201 OR ENGL 202

**STAT 231** Mathematical Statistics I
**Credit Hours:** 3

**Prerequisite:** STAT 211 AND MATH 251 OR STAT 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, non-parametric statistics, time series analysis and business forecasting applied to sales, demand, revenue, consumption, share prices, exchange rates, basics of discriminate analysis and factor analysis applied to marketing research.

**Prerequisite:** STAT 220 OR STAT 155

**STAT 231** Applied Regression Analysis
**Credit Hours:** 3
Simple Linear Regression; Residual Analysis; Autocorrelation; Multiple Regression; Parameter Estimation and Testing; Model Selection Procedures; Polynomial Regression; Indicator Variables; Multicollinearity; Outliers and Influential Observation. Statistical software like Minitab, SPSS and R are used.

**Prerequisite:** STAT 102 OR STAT 251 AND STAT 211

**STAT 241** 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 242** Demography
**Credit Hours:** 3
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
Actuarial models, classifying and creating distributions. Frequency and severity with coverage models, deductibles, policy limits and subrogance. Aggregate loss models, compound models, computing aggregate claims distributions, comparison between the various computing methods. Discrete and Continuous time run models.

Prerequisite: STAT 102 OR STAT 251 AND STAT 211

STAT 343
Applied Survival Analysis
Credit Hours: 3
Censored data, types of censoring, examples of survival data analysis, the survival function, the hazard function, Nonparametric Methods, Life tables, the Product-Limit Estimator of the survival function, comparing two survival distributions (Mantel-Haenszel test), Parametric Survival Distributions and Inference, Goodness of Fit for Survival, Parametric Regression Models, Cox’s Proportional Hazards Model. Statistical software like Minitab, SPSS and R are used.

Prerequisite: STAT 102 OR STAT 258

STAT 344
Quality Control
Credit Hours: 3
Analysis of Control Charts for Variables and Attributes; Histogram Analysis; Process Capability; Standard Acceptance Sampling Plans; Process Reliability. Statistical software like Minitab, SPSS and R are used.

Prerequisite: STAT 102 OR STAT 251 AND STAT 211

STAT 361
Sampling Methods
Credit Hours: 3
Principles of sampling; questionnaire Design; Simple random sampling; Stratified and Cluster Sampling; Ratio and Regression estimation; Systematic Sampling; Multistage and Multivariate Sampling; Determination of the sample Size; Non-response and Non-sampling Errors Adjustment.

Prerequisite: STAT 102 OR STAT 251 AND STAT 211

STAT 371
Statistical Packages
Credit Hours: 3
Detailed use and full exploitation of Statistical Packages such as SPSS, MINITAB, R and SAS in working with Data; Topics include Data Entry, checking, manipulation and Analysis. Comparison between the different packages, their advantages and disadvantages. Weaknesses and strengths are discussed. Effective use of statistical packages in solving real life problems. Advanced features of statistical packages.

Prerequisite: STAT 231 OR STAT 258

STAT 434
Generalized Linear Models
Credit Hours: 3
The Exponential family of distributions, Properties of distributions in the Exponential family, Generalized linear models. Examples, Inference in Generalized Linear Models, Model Adequacy and Diagnostics, The deviance statistic, The residuals, modifications of the residuals and model checks based on the residuals. Special Cases of Generalized Linear Models, Normal theory linear models, Binary logistic regression, Nominal and ordinal logistic regression, Poisson regression and Loglinear models. Statistical software like Minitab, SPSS and R are used.

Prerequisite: STAT 322

STAT 442
Generalized Linear Models
Credit Hours: 3

Prerequisite: STAT 341

STAT 445
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 221
STAT 464 Environmental Statistics
Credit Hours: 3
Prerequisite:
(STAT 312 OR STAT 452) AND (STAT 361 OR STAT 357)

STAT 481 Multivariate Analysis
Credit Hours: 3
Organization of Multivariate Data; Multivariate Distributions; Mahalanobis Distance; Hotelling's T2; Multivariate Analysis of Variance and Regression; Data Reduction Techniques; Discriminant and Classification Analysis; Canonical Correlation Analysis. Statistical software like Minitab, SPSS and R are used.
Prerequisite:
STAT 322 AND MATH 231

STAT 482 Bayesian Statistics
Credit Hours: 3
Nature of Bayesian Statistics, Prior and posterior distributions. Joint informative priors. Jeffreys rule. Conjugate priors. Bayesian Inference, Quadratic loss distributions; Mahalanobis Distance; Hotelling's T2; Bayesian methods, Markov chain Monte Carlo methods and the Gibbs sampler.

STAT 497 Independent Study
Credit Hours: 3
Designed for students who wish to pursue further reading in a particular aspect of current interest in Statistics under the guidance of a faculty member. Each student is required to present analytical evaluation of his/her reading to his/her faculty supervisor.

STAT 498 Special Topics
Credit Hours: 3
Studies topics in statistics that are not part of the regular offerings. Topics will be selected by statistics faculty members as appropriate

STAT 499 Senior Project
Credit Hours: 3
A number of skills learned throughout the curriculum are combined by expecting students to work through a variety of case studies. Students are expected to collect data, analyze the data individually, and write research reports of suitable format and content.

TRAN 201 Principles & Strat. of Trans.
Credit Hours: 3
The course provides advanced training in principles and methods of translation from English to Arabic and vice versa. A set of primary theories and basic principles will be introduced and a variety of text types are covered, ranging from legal to journalistic genres, in order to train students how to apply these theoretical concepts to different texts. Primary theoretical positions on translation equivalence are presented, assessed and related to the practical task of translating.

TRAN 202 Theoretical and Practical Models of Translation
Credit Hours: 3
The course introduces students to more advanced theoretical models of translation: Formal equivalence (Cattord), Dynamic equivalence (Nida), Pragmatic (Koller), Textual and Contextual (Beaugrande). These are used in translating a variety of text types 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.

TRAN 301 Media Translation I
Credit Hours: 3
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, a language and government structure. Students will explore translation strategies related to the media and be encouraged to examine practical problems, which are regularly encountered in the process of translating news reports, editorials and headlines

Prerequisite:
TRAN 201 AND TRAN 202

TRAN 302 Specialized Translation I
Credit Hours: 3
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 student input from the area of Terminology and its application in these fields.

Prerequisite:
TRAN 201 AND TRAN 202

TRAN 303 Intercultural Communication
Credit Hours: 3
With globalization increasingly impacting on many aspects of our life, communication across cultural boundaries is becoming part of the necessary skills for educated individuals to increase mutual respect and minimize antagonism. Culture is a complex semiotic system with its sophisticated vocabulary of symbols, beliefs, attitudes, values, customs and norms of behaviour. Since language is enmeshed in culture, it is therefore impossible to translate between languages without a clear awareness of the cultural issues involved in every translation assignment. This course provides an in-depth view of the way in which cultures influence communication, and how diverse cultures encode and decode messages differently. Topics covered include perception differences, worldview, identity, verbal and non-verbal communication styles in both high and low context cultures, and the effect of bias and conflicting value systems on cross-cultural communication.

Prerequisite:
TRAN 201

TRAN 310 Functional Arabic Grammar for Translators
Credit Hours: 3
This course aims to develop the student's proficiency in using the two languages correctly from the aspects of focusing on grammar, functional syntax, and the use of language in everyday transactions, government and administrative cooperation, development and business dimensions. The course enables the student to derive verbs according to various verbs according to semantics and to derive the various forms from the root and determine sentence structure and various connotations of meanings resulting from different concepts of grammar. Such as: morphology, syntax, verbal and syntactic and semantic aspects in order to evaluate and improve the quality of translated texts.

TRAN 311 Functional English Grammar for Translators
Credit Hours: 3
This course targets English grammar points from a translation perspective. It emphasizes that formal grammar must be seen as embedded in communicative contexts to help students internalize English structures. It will develop an understanding of the major characteristics and basic details of English grammar and lexis in context, together with the necessary skills required in applying syntactic and semantic aspects in order to evaluate and improve the quality of translated texts.

TRAN 312 Linguistic Comparison of Arabic & English
Credit Hours: 3
The course deals with how English and Arabic compare and contrast at various levels of linguistic organization: phonology, morphology, syntax and semantics. A discourse pragmatic perspective, together with a functional approach to the lexicogrammar, is promoted throughout to enable students look at the way texts are organized functionally.

TRAN 313 Discourse Analysis for Translators
Credit Hours: 3
This course is designed to introduce students to the principles and skills of text analysis, allowing them to apply their training in formal linguistics in the analysis of a variety of texts. The notions of text and textuality, as well as form and content, will be introduced. Analysis will include written and spoken texts. Students will also do a computer aided text analysis using a variety of techniques. Students are encouraged to design the text producer's intentions, and methods of expressing and/or obscuring such intentions. Explicit and implicit attempts on the part of the text producer to flout established communicative maxims are related to the process of translation. Cultural manifestations in the structure and the functions of texts are also analyzed and related to the act of translation.

Prerequisite:
TRAN 201 AND TRAN 202

TRAN 314
This course builds on Media Translation I, focusing on non-primed media (film, television). It aims to provide students with grounding in the functioning of audiovisual translation (dubbing, subtitling, voice-over) and translation technology while helping them develop critical awareness of the wider cultural and ideological implications of media translation. Current debates in media and translation studies will also be examined, with particular emphasis on the use of intercultural translation in the global media.

Prerequisite:
TRAN 301

TRAN 315
Specialized Translation II
Credit Hours: 3
The course provides focused training in the translation of texts in the fields of business, science and technology from and into English and Arabic. The treatment of such texts will be guided by theoretical input covered in TRAN 302 and more importantly by input from the area of Terminology and its application in these fields.

Prerequisite:
TRAN 302

TRAN 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.

TURK 101
Turkish I
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 100
First Year Seminar
Credit Hours: 3
The First-Year Seminar course is designed to equip first-year students with the knowledge and skills needed for their personal, moral, and academic success, while transitioning from high school to university. The course is designed on three components: learning about the self, the university environment, the society and world. Students will be engaged in activities that promote critical thinking skills through common reading, civic engagement and research topics related to the Qatari community. This is to emphasize students’ role as citizen scholars in society and to develop skills necessary for lifelong learning.

UNIV P100
Skills for University Success
Credit Hours: 1
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 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 306
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
Contemporary Studies in Quran and Sunna
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 Takheer 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 surahas Baqarah, Al-Ma’aida and the views of scholars of various 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’ 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.