## Undergraduate Student Catalog

2016-2017

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## A MESSAGE FROM THE PRESIDENT

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

The contents of this document highlight the central pillars of Qatar University's mission, namely the provision of highquality 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 professiona associations, has been crafted with a view to cater to the needs of the labor market and the country's ambitious development course. Over sixty specializations from 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 life-long learning and growth.
I hope you will take full advantage of this catalog to learn all about the University and its programs and services, which are designed to serve 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 program

## Chair

 Deputy Emir

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Managing Director, Qatar Center of Leadership and Vice Chairman of Board of Regents and CEO

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## General Secretary

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

## President

Dr. Hassan Rashid AI-Derham
Qatar University's 6th President, Dr. Hassan Rashid AI 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 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 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, Qatar Road Safety Studies Center, Qatar Mobility Innovations Center, KINDI Lab for Computing Research, Laborator Animal Research Center, and the Biomedical Researc 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

Construction Engineering and Management. He is also a member of several professional international societies and organization

## Vice Presidents

## Dr Khalid Al-Khater

Vice President and Chief Financial Officer
The VP and CFO is responsible for the general supervisio QU's administrative and financial affairs. Dr. Al-Khater 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 Director of the MBA program from 2003 to 2005, as to 2005, and as the Vice Dean from 2000 to 2005 . He is currently the Dean of Academic Affairs at Ahmed bin Mohamed Military College. He received the State Incentive Award in 20 in the field of accounting. He has participated in many committees at Qatar University.

Dr. Al-Khater's research focuses on accounting development in Qatar and he conducts seminars and workshops on a variety of accounting topics and education. Dr. Al-Khater is an active member in some professional accounting associations such as the Qata Public Accounting Association, American Accounting GCC Accounting \& Auditing Organization.

Vice President and Chief Academic Officer
The VP and CAO is responsible for the general supervisio of all QU academic programs, research, continuing ducation and libraries. In February 2013, Dr Hasna was enure as Dean College of Engineering (CENG). He earlie held the positions at the College of Assistant Professor, and later, Head Electrical Engineering Department and Associate Dean for Academic Affairs
Dr Hasna received his BSc degree in 1994 from Qatar University, an MSc from the University of Southern alifornia an Mgo, and a PhD in 2003 from the Universit communications engineering

## 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 development and success. Dr. Khalid Mohamed Al-Kh President for Student Affairs at Hald the position of Vic University in 2012 where he monitored and oversaw student affairs administration, including recruitment,
admissions and registration 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 Aljazeera Network, and before
hat, was the Director of the Student Counselling Center at Qatar University where he worked as an Assistant Professor at the Department of Psychological Sciences Dr. Al-Khanji received his bachelor degree in Education from Qatar University, masters in Counseling and Human Resource Development from University of Colorado at Denver, Ph.D. in Counseling Psychology from Temple He has extensive experience in higher education, studen affairs, strategy development and management, corporate and organizational development, human resource development coaching, training and counseling.

## Professor Mariam Al-Ali Al-Maadeed

 Vice President for Research \& Graduate StudiesProf. Mariam Al-Ali Al-Maadeed was the Director of the Center for Advanced Materials at Qatar University (QU) and Founder Coordinator of the master's program in and Founder Coordinator of the master's spogram in
Materials Science and Technology at QU. She received a doctorate 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 as well as in the field of nanocomposites technologies,
and nanotechnology expertise. She has more than 120 research papers in international journals and conference in addition to a series of book chapters, books and patents. Prof. Al-Maadeed has received many research grants, and she is the lead principal investigator in several projects with a number of universities and institutions around the globe, and with national and international companies. She is an active member of distinguished associations in the field of science and administration

She has taught several courses at the graduate and postgraduate level in addition to supervising many graduate dissertations at Qatar University and other international Universities. Prof. Al-Maadeed gave many consultations and presented several workshops for
a variety of organizations throughout industries, the ministries and society. She chaired several conferences,
was invited as keynote speaker to several international conferences and was member of several committees in the Country and abroad. Prof Al-Maadeed has also worked as a reviewer for many scientific journals and conferences.

Among the awards received by Prof. Al-Maadeed are the State Prize in Physics in 2010, Plastic Excellence Award from the Gulf Petrochemicals and Chemicals Association in 2014, and Leadership Excellence Award for Women Middle East in 2015 . She is also a leading member the Albairaq team, having won the World Innovation Summit for Education Award (WISE) in 2015.

## Dr Darwish Abdulrahman H Al-Emadi Chief Strategy and Development Officer

Dr. Darwish Alemadi's career in higher education spans over three decades spent mostly at Qatar University in variety of academic leadership positions.
After graduating from the University of Edinburgh Stiand, with a Ph.D. in Linguistics in 1986, Dr. Alemadi was appointed Assistant Professor (1986)
and subsequently Associate Professor (1992) in the Department of English and Modern European Languages, During that time, Dr. Alemadi also assumed a number of senior academic leadership roles at Qatar University, cluding vice Dean (1992-2000) and Dean (1995-2000) ff the Graduate School (2000-2003). It was during his tenure that the first graduate program was launched at Qatar University, the Master in Business Administration (MBA) in 2002. In 2008, Dr. Darwish became the founding Director of the Social and Economic Survey Research Institute at Qatar University, a thriving research center with a mandate to conduct high quality academic surveys in areas of interest to Qatari society. In 2014, he assume Operations overseeing the operation of five research centers. In 2015 Dr. Alemadi was appointed Acting Vice President for Research at Qatar University. In 2016 Dr. Alemadi has been appointed as Chief Strategy and Development Officer.
Beyond Qatar University, Dr. Alemadi was the Director of the Education Institute at the then-newly established supreme Education Council between 2003 and 2004, into a 200 employee-strong organization with several departments.
Dr. Alemadi's research interests, publications, an conference presentations reflect his interest in sociolinguistics, and more recently in the area of survey
research. He is currently the Chair of the Scientific Advisory Committee of the World Values Survey Committees of the Arab Barometer initiative and the European University Institute.

## Dr Egon Toft

Vice President for Medicine and Health
Dr. Toft brings to Qatar University valuable experience in the establishment and leadership of colleges of medicine of Medicine at Aalborg University from 2010 to 2014 the newest medical school in Denmark). He was also Associate Dean at the College of Engineering, Science and Medicine at the same university, where he established he Medicine track with Industrial Specialization (2006), Sports Science program (2007) and a Master of Clinic Science and Technology program (2008).
He played a leadership role in Aalborg University Hospital since 1996, most importantly as the Head of the Research since 1996, most importantly as the Head of the Res established a case-based bachelor's degree program with an integrated curriculum and clinical placements beginning from the first semester, and a case-based, problem-based 3 -year master's degree program.
Dr. Toft is a qualified specialist in cardiology (1994) and Iso holds a PhD (Dr.Med. Sci. 1995) from Copenhagen University.


| Offices | Number | Email |
| :--- | :--- | :--- |
| Qatar University Main Line | 44033333 | info@qu.edu.qa |
| SESRI Call Centre | 44033030 | sesr@qu.edu.qa |
| Talabati Services | 44035555 | talabati.support@qu.edu.qa |
| Emergency Services | 44036666 |  |
| BOD Helpdesk | 44033636 | cfd.helpdesk@qu.edu.qa |
| Student Call Center | 44034444 | studenthelp@qu.edu.qa |
| Academic Programs and <br> Learning Outcome Assessment | 44034007 | aploa@qu.edu.qa |
| Admissions Department | 44033737 | admissiondir@qu.edu.qa |
| Admission Section | $44033733 / 3741$ | admission@qu.edu.qa |
| Graduate Admission Section | 44033750 | graduate@qu.edu.qa |
| Recruitment \& Orientation Section | $44033751 / 2752$ | studentrecruitment@qu.edu.qa |
| Scholarships Section | $44033747 / 3748$ | scholarships@qu.edu.qa |
| Transfers Section | $44033744 / 3745$ | transfer@qu.edu.qa |
| Alumni Relations Section | $44033059 / 3071$ | alumni@qu.edu.qa |
| AVP for Facilities \& Information | 44033107 | avpadmin@qu.edu.qa |
| Technology | 44036300 |  |
| AVP for Faculty Affairs | 44037900 | avpstudentlife@qu.edu.qa |
| AVP for Student Life \& Services | 44035902 | avpaem@qu.edu.qa |
| AVP for Admissions and Enrollment <br> Management | 44033882 | avp.ssd@qu.edu.qa |
| AVP for Student Success and |  |  |
| Development office | 44033875 | caar@qu.edu.qa |
| Academic Advising Center | 44033883 | careerservices@qu.edu.qa |
| Career Services Center | 44033870 | learningcenter@qu.edu.qa |
| Student Learning Support Center | 44033755 | studentcounseling@qu.edu.qa |
| Student Counseling Center | $44035106 / 3854$ | specialneeds@qu.edu.qa |
| Inclusion and Special Needs Support <br> Center | 44033500 | bodhelpdesk@qu.edu.qa |
| Business Operation Department | 44033927 | clu@qu.edu.qa |
| Central Laboratory Unit |  |  |
|  |  |  |


| College of Arts \& Science | 44034500 | cas@qu.edu.qa |
| :--- | :--- | :--- |
| Arabic for Non-Native Speakers Program | 44034584 | arabicprogram@qu.edu.qa |
| Department of Arabic Language | 44034820 | headdeparabic@qu.edu.qa |
| Department of Biological \& Environmental <br> Sciences | 44034530 | biology@qu.edu.qa |
| Department of Chemistry \& Earth Sciences | 44034650 | headdepchemistry@qu.edu.qa |
| Department of English Literature and Linguistics | 44034900 | malghadeer@qu.edu.qa |
| Department of Health Sciences | 44034800 | health@qu.edu.qa |
| Department of Humanities | 44034700 | headdephumanities@qu.edu.qa |
| Department of International Affairs | $44034957 / 4941$ | iap@qu.edu.qa |
|  <br> Information Science | 44034860 | headdepmasscommunication@ <br> qu.edu.qa |
| Department of Mathematics, Statistics \& Physics | 44034600 | math-physics@qu.edu.qa |
| Department of Psychological Sciences | 44035200 | psych@qu.edu.qa |
| Department of Social Sciences | 44034750 | headdeptsocsci@qu.edu.qa |
| Sports Science Program | 44034960 | sportscience@qu.edu.qa |
| College of Business \& Economics | 44035000 | bus-econ@qu.edu.qa |
| Department of Accounting and Information | 44035051 | accounting@qu.edu.qa |
| Systems | 44035080 | fin-econ@qu.edu.qa |
| Department of Finance and Economics | $44035033 / 5034$ | manmark@qu.edu.qa |
| Department of Management and Marketing | 44035100 | Dean-Edu@qu.edu.qa |
| College of Education | $44034100 / 4104$ | dean-eng@qu.edu.qa |
| College of Engineering | 44034340 | architecture-urban@qu.edu.qa |
| Department of Architecture and Urban Planning | 44034130 | che@qu.edu.qa |
| Department of Chemical Engineering | 44034170 | civil@qu.edu.qa |
| Department of Civil Engineering | 44034240 | cs@qu.edu.qa |
| Department of Computer Science and |  |  |
| Engineering | 44034200 | electrical@qu.edu.qa |
| Department of Electrical Engineering | 44034300 | mecheng@qu.edu.qa |
| Department of Mechanical Engineering | 44035252 | law@qu.edu.qa |
| College of Law | 44035550 | pharmacy@qu.edu.qa |
| College of Pharmacy | 44034400 | shariadean@qu.edu.qa |
| College of Sharia \& Islamic Studies | 44034450 |  |
| Department of Islamic Culture and Dawa |  |  |
|  |  |  |
|  |  |  |


|  |  |  |
| :--- | :--- | :--- |
| Department of Islamic Studies | 44034470 | islamicstudies@qu.edu.qa |
| College of Medicine | 44037800 | medicine@qu.edu.qa |
| Environmental Studies Center | 44033939 | esc@qu.edu.qa |
| Enrollment Services One Stop Section | 44037979 | onestop@qu.edu.qa |
| External Relations Department | 44033050 | ccer@qu.edu.qa |
| Faculty Senate | 44034018 | fs22@qu.edu.qa |
| Finance Department | 44033111 | Finance@qu.edu.qa |
| Fire Emergency | 44033999 |  |
| Food \& Catreing Services | 44033865 | foodservices@qu.edu.qa |
| Gas Processing Center | 44034370 | gpc@qu.edu.qa |
| Health Clinic | 44033285 | hhashad@qu.edu.qa |
| Health Emergency | 44035050 | hhashad@qu.edu.qa |
| Housing Department | 44033160 | housing@qu.edu.qa |
| Human Resources Department | 44033240 | hroffice@qu.edu.qa |
| Human Resources Helpdesk | 44033366 | hrdesk@qu.edu.qa |
| Continuing Education Office | $4403-3925$ | continuingeducation@qu.edu.qa |
| Core Curriculum Program | $44034043 / 4044$ | quccprogram@qu.edu.qa |
| Faculty and Instructional Development | 44034030 | ofid@qu.edu.qa |
| Foundation Program | 44035300 | foundation@qu.edu.qa |
| Honours Program | 44034990 | quhonors@qu.edu.qa |
| Library | 44034050 | library@qu.edu.qa |
| Information Technology Services | 44033400 | helpdesk@qu.edu.qa |
| Internal Audit Department | 44033097 | internal-audit@qu.edu.qa |
| ITS - Helpdesk | 44033456 | helpdesk@qu.edu.qa |
| Legal Office | 44033010 | labibg@qu.edu.qa |
| Materials Technology Unit | 44033988 |  |
| Office of Academic Research | 44033919 | olfat@qu.edu.qa |
| Office of Quality Management | 44033913 | oqm@qu.edu.qa |
| Scholarships \& Partnerships Office | $44034009 / 3156 / 4010$ | quscholarships@qu.edu.qa |
| President's Office | 44033000 | president@qu.edu.qa |
| Procurement Department | 44033222 | Procurement@qu.edu.qa |
| Registration Department | 44033777 | registrationdir@qu.edu.qa |
|  |  |  |
|  |  |  |
|  |  |  |


| Records and Archiving Section | $44033796 / 3775$ | records@qu.edu.qa |
| :--- | :--- | :--- |
| Registration Section | $44033740 / 3789$ | registrations@qu.edu.qa |
| Schedules Section | $44033791 / 3785$ | schedules@qu.edu.qa |
| Security Emergency | 44036999 |  |
| Social and Economic Survey Research Institute <br> (SESRI) Office | 44033020 | sesri@qu.edu.qa |
| Student Activities Department | 44033800 | studentactivities@qu.edu.qa |
| Aquatic Center | 44033830 | Aquatic@qu.edu.qa |
| Sports and Recreational female Section | 44033828 | sports@qu.edu.qa |
| Student \& Campus Activities Section | 44037933 |  |
| Student Organizations | 44037944 | studentorganizations@qu.edu.qa |
| Student Exchange | 44037956 | annualevents@qu.edu.qa |
| Events and Campus Activities | 44037933 | studentexchange@qu.edu.qa |
| Volunteerism \& Community Services Section | 44033811 | Volunteerteam@qu.edu.qa |
| Student Helpdesk Section | 44034444 | studenthelp@qu.edu.qa |
| Parents Program Unit | $44033768 / 5967$ | parents@qu.edu.qa |
| Student Services Department | 44033838 | studentservices@qu.edu.qa |
| International Students Section | $44033868 / 3869$ | internationalstudents@qu.edu.qa |
| Primary Services Section | $44033862 / 3790$ | primaryservices@qu.edu.qa |
| Student Fund and Financial Aid Section | $44035972 / 5963$ | studentfund@qu.edu.qa |
| Textbooks Section | $44033840 / 3849$ | textbooks@qu.edu.qa |
| Student Helpdesk Section | 44034444 | studenthelp@qu.edu.qa |
| Parents Program Unit | $44033768 / 5967$ | parents@qu.edu.qa |
| Transportation Office | 44033666 | transportation@qu.edu.qa |
| Vice President and Chief Academic Officer | 44034000 | vpacademic@qu.edu.qa |
| Vice President and Chief Financial Officer | 44033100 | vpadmin@qu.edu.qa |
| Vice President for Institutional Planning \& | 44033670 | vpipd@qu.edu.qa |
| Development | 44033900 | vpr@qu.edu.qa |
| Vice President for Research | 44033700 | vpstudents@qu.edu.qa |
| Vice President for Students Affairs |  |  |
|  |  |  |



## UNIVERSITY TERMINOLOGY



## Common Examination

Examinations for courses with multiple sections scheduled 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 ocus on a particular aspect of the major field of study.

## Core Curriculum Requirement

Requirements common to all undergraduate students deigned to provide both breadth and specialization in their academic degree programs.

## Co-requisite

A course required to be taken simultaneously with another course.

## ourse

A unit of study that may utilize lecture, discussion, labora ory, seminar, independent study, internship, or other milar 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, ut 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 requir 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 aca-
demic 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, the departas, and tuition holds. The student should se 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

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

Asecondary curriculum component of an academic proram intended to provide a limited depth and/or breadth -study in a discipline or a professional field of study.

## Non-degree Studen

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, 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 les

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

## Readmission

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

## Re-enrollment

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

## Registration

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 Studen

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 istruction followed by an examination period into which the academic year is divided. A summer session is decide and offered on an annual basis.

## Student Classification

QU students are classified as either regular degree-seek QU students are classified as either

## Student Schedule

Alisting 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 hat is accepted at QU and which may or may not be applicable toward a specific QU degree

## Transfer Student

Astudent who previously attended another university and has been admitted to QU after satisfying the QU transfer admission requirements. Credits completed at the student都

## rition

The fees charged for courses each semester.

A student who is Sorking 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 or 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 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 or 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
Withdrawing from all registered courses for the semester of withdrawal.

## Withdrawal from the University

Suspends enrollment in QU for a period not to exceed fou semesters.


The Undergraduate Catalog is intended to reflect current academic policies, procedures, degree offerings, course descriptions, and other information pertinent to undergraduate study at Qatar University. This catalog identifies the minimum University requirements. Individual programs may prescribe additional requirements. Students should consult with their respective college and/or program director for a comprehensive listing of major/programmatic requirements. tudents and Qatar University; more current or complete information may be obtained from the appropriate college, academic department, or administrative office. The QU Undergraduate Catalog contains the most accurate and recent information available for s niversity. 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 Qata
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.

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## CHAPTER 1

## ABOUT THE UNIVERSITY

Since its inception in 1973, Qatar University (QU) has served as Qatar's prominent national institution of higher ducalion, and sodemic and esearch excellence in the region.

Serving over 15000 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 Sciences (CAS), Business and Economics (CBE),
Education (CED), Engineering (CENG), Law (LAWC), 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 conomy 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 Gurre.

They are distributed by college
Arts and Sciences: PhD in Biological \& Environmental Sciences; PhD in Gulf Studies; Masters' in Biomedical
 and Arabic Literature \& Language
Business and Economics: MBA; Master's in Accounting and Master of Science in Marketing.
Mation: M. Edin Ed Markeing. dian. M. Ed in Educational Leadership; M. Ed in decial Education, Master of Ars in innculum, Instruction nd Assessment. Diploma programs include Early Education, and Special Education Education, and Special Education
; Masters in Civi ngineering, Electrical Engineering, Mechanical Engineering, Computing, Engineering Management, Environmental Engineering, and Urban Planning \& Development.
aw: Master of Law in Public Law; Master of Law in Private Law:
edicine: Medical Doctor (MD)
Pharmacy: MSc Pharmacy, and Doctor of Pharmacy

## PharmD

ria and Islamic Studies: Masters in Ouranic Sciences a Exegeses, and Figh \& Usul Al Figh

QU has committed considerable resources to upgrading its classroom and campus infrastructure with modem echnology-enabled resources such as Lecture assistive technology; advanced research labs, new and environmentally-friendly buildings, and well-equipped brary facilities. These have made a positive impact on earning earning.
diverse student body at QU comprises over fifty-two nationalities, the majority of which are Qatari nationals. population.
QU has an alumni body of over 33,000 graduates and oasts a vibrant Alumni Association comprising 15 Misnad, 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 he 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 prograts that prign qually undergraduate destined to shape the future of Qatar. The university destined to shape the future of Qatar. The university and conduct research, which addresses relevant local and egional 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

with the goal to building a workforce of competent and skilled graduates in line with labor market needs and National and the National Research Strategy

Intrinsic to QU's position as an institution of academic and research excellence, best practice and international standard, is its adherence to preserving the language, history, and cultural traditions of Qatar and the Islamic world.

## QU Reform

Qatar University embarked on a comprehensive reform project in 2003, with a focus on three main goals: autonomy, academic reform, and administrative and financial reform. The objective was to modernize its academic programs, and upgrade and decentralize its administrative processes and procedures with a centra objective towards overall efficiency and creating an students.

The project was led by then-H.H. the Heir Apparent Sheikh Tamim Bin Hamad Al-Thani, QU President Prof Sheikha Abdulla Al-Misnad, 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 reformulated Foundation Program, amended policies on student academic probation and retention 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 teacher-student mentoring, and counseling services. They form part of the organization's growth strategy which
puts each student's interests at the heart of its plans by actively supporting the improvement of their learning skills and so advancing their compeititiveness
later as graduates in the labor market.

Student participation in the life of the campus comes in the form of the Qatar University Student Representative Board QUSRB), which was established to serve and act in the interest of the students and the QU community.

## 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 in addition to a summer session. Credit hours
stablished 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 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 oining Arabic-taught programs are exempt from Foundation requirements, and additional degree programs are being offered in Arabic, including International Affairs, and Business \& Economics

Arabic remains the official language of administrative communication at the organization.

The University strives to provide as many course hours as possible, based on the capacity within the different disciplines. Admission to all QU programs continues to be based on student competitiveness and program capacity. $t$ is, however, compulsory that students enroll in core urriculum 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 the programs offered by the College of
Sharia \& slamic Studies, the Arabic Language departmen
in College of Arts \& Sciences, and at celebratory event 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-lon 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 unctions and communicative skills of speaking, reading, writing and listening comprehension.

## Research

The institution considers research a priority area to develop and expand for the benefit of its students, faculty, the university as a whole and the Qatari community in general. This is evidenced by the incorporation of research every aspect of the academic experience -- a fact eflected in its research funding, which amounted to USD 200 million in 2011-20.

The institution's commitment to promoting a culture of esearch is also emphasized through its annual Qatar University Research Forum (QURF), and the introduction a research complex and several specialized research enters of excellence. These centers, which today number 12 , focus on a wide range of research areas, such and statistical analysis, road and traffic safety materials processing, mobility innovations, laboratory management and safety, and educator development.
nitiatives such as a ground-breaking biofuel project, a esalination plant, and water reuse study are among he research projects at QU that are geared towards ddressing issues that present themselves in a country

U continued to be top winner in the award cycles of the National Priorities Research Program (NPRP) and Undergraduate Research Experience Program (UREP) Inder the Qatar National Research Fund (QNRF). In the 7 th NPRP cycle, QU researchers won the highest number
of awards-62 (38.3\%) -out of 162 awarded proposals awards-62 (38.3\%)-out of 162 awarded 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 parlayed 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

## 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 olunteerism, civic responsibility, and leadership.

QU students actively participate in a wide range of nationa events and community service activities such as the Qatar Career Fair, planning and execution of Eid charity projects, organization of the National Day parade at QU, as well as many academic societies and clubs. A number of studen events and extracurricular activities, such as the Cultural Village, Sponsorship and Internship Day, as well as Clu Day, have become staples on the academic calend

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

In line with the organization's commitment to Qatarization he 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 distinquished scholars to join QU's ranks atter graduation and contribute their expertise to the organization's teaching and learning environment.

Today, 52 national scholars are studying at universities abroad and 20 are in preparation for their scholarship journey to pursue a wide range of studies which will be of have joined OU 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, academic and social import, and advance the institution's
reputation for talented studentship
QU also supports exchange visits with foreign universities, QU also supports exchange visits with foreign universities, and study and training trips abroad for iss students

## 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 to the teaching/learning experien

In addition, experts appointed to Chair positions at QU facilitate graduate research and training activities in conjunction wi industry with hands-on experience at

## 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 (201116). 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 The wide range of community service activities by at the institution, coliege, department, student and
faculty level include national capacity building, alum 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 thas 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. adaction to the main campus, the University has QU's main campus is built on a total area of approximately 8 square kilometers, with architecture that integrates distinction and modernism with the ideals of traditional Qatari design. Students are readily provided with a wid range of services offered on campus to enrich their th during the day and

## INFORMATION TECHNOLOGY

Information Technology Services is committed to the provision of the best infrastructure, applications, and services to faculty, students and staff of Qatar University. Ill QU students, faculty and staff are given secure access the following University services
myQU: myQU is the University's web portal, a webbased tool that provides centralized access to email, calendars, administrative services and classroom tools, information through a single username and password. To access myQU, users can direct their web browser to http://my.qu.edu.qa and log in with their QU credentials.
myBanner: Banner is an effective information system providing students, faculty and staff with online access schedules, grade viewing, and online tuition payment.

- Email: The University provides all students, faculty and staff with a University email account. This account can be accessed via standard email clients as well as through e mQU portal. he QU email account is the olicial employees.

Blackboard: The Blackboard Learning System is a ourse management system that provides students with course materials, discussion boards, virtual chats, online assessment and a dedicated academic resource center. Students can log in to Blackboard using their QU credentials at: mybb.qu.edu.qa

Wireless Network: The campus wireless network is the largest wireless network at any campus in Qatar and
allows students, faculty, and staff to connect to the interne rom any location on campus

Help Desk: The IT Services Helpdesk assists students, faculty and staff with questions related to laptop and desktop computing, QU licensed software/applications installation, remote access issues, connecting to the QU network, password and login information, email, viruses and spy-ware, among many other issues.
Lecture Capture System: To enhance the university eaching and learning experience, many classrooms are inped whe Lecture Capture system 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 during their tenure at QU.
BYOD: Students, Faculty and Staff can use "Bring Your Own Device services au. Users can register and WiFi sytem.

T Helpdesk contact information:
Phone: (+974) 4403-3456
Email: helpdesk@qu.edu.qa
Website: http://its.qu.edu.qa
Operating Hours:
Sunday - Wednesday; 7:30 am - 7.30 pm
aturday: $8: 00 \mathrm{am}-3: 00 \mathrm{pm}$

## FACILITIES AND RESOURCES

Athletics
Qatar University provides students, faculty, staff, and the Qatari community with a wealth of athletic and recreationa acilities to enrich their academic experience. Equipment, pastimes QU supports several sports facilities including the stadium, the aquatic complex which offers a variety of cardiovascular machines, free weights, and weight machines, and a women's sports facility that hosts a wide range of games and activities, and contains a gymnasium All facilities are open weekdays from 8:00 am to 10:00 pm. For further information, please contact the Sports and

Banking
Students and employees are offered convenient access to banking services through two local bank branch offices and several ATM machines in key locations on campus. Qatar National Bank (QNB) and AI-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 aides, paint and art materials, and books in Arabic and English, as well as magazines and computer equipment. For more information, please general_services/index.php

## Copying and Printing Centers and self service

## hotocopying

rovided for students at several locations around the en's and women's sections of campus. For more details about the services offered and prices, please visit us . htp://www.qu.edu.qa/students/services/general services/copy_center.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 8.00 am to 5:00 pm. For more information, see: http://www. php

## Lockers

atar University provides lockers in various buildings in enen's and women's sections.
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 caretaking 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

## extbooks

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

Food Services
Qatar University offers extensive dining facilities across is campus, with services catering to a large variety of lastes 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 Lea and Costa.
Main office: Food Court, Mezzanine Floor, Office \#z
Phone: 4403-3865 /5970/5975
mail: foodservices@qu.edu.qa
Twitter: @QUFSS
acebook: www.facebook.com/QUFSS Working hours (Food Services Section): Sunday Thursday, 7:30am-2:30pm
Dining Outlets:
Working hours (Dining Outlets):

| Cafeteria |  | Opening and Closing Time |  |
| :---: | :---: | :---: | :---: |
| Women |  |  |  |
| Women's Main Building | Rm 106 | 7:00 am | 7:00 pm |
|  | Rm 161 | 7:00 am | 6:30 pm |
| College of Arts and Sciences | Rm 1 | 7:00 am | 7:00 pm |
|  | Rm 2 | 7:00 am | 4:30 pm |
| Women's Activities Building |  | 7:00 am | 4:30 pm |
| Parking Lot |  | 7:00 am | 7:00 pm |
| Sports Facility Building |  | 7:30 am | 4:00 pm |
| College of Business \& Economics |  | 7:00 am | 8:30 pm |
| College of Education |  | 7:00 am | 7:00 pm |
| Women's Activities Building |  | 7:00 am | 4:30 pm |
| Food Court |  | 7:30 am | 7:00 pm |
| New Library |  | 7:00 am | 9:30 pm |
| Men |  |  |  |
| College of Engineering: Corridor 08 |  | 7:00 am | 8:00 pm |
| Men's Main Building | m 135 | 7:00 am | 7:00 pm |
|  | m 138 | 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 |

## Computer Labs

A large number of academic computer laboratories are available throughout campus for student research and assignments. Students should contact academic individual college computer labs and resources.

## Student Campus Card

The Student Campus Card is part of the One Card program, and is used on campus for identification and other important purposes, such as: accessing university
facilities, borrowing library materials, purchasing facilities, borrowing library materials, purchasing
Textbooks, using the copy and print self-service, and accessing many other services at QU. For additional accessing many other services at Qu. For adaitional visit their website at: http://www.qu.edu.qa/students/ services/campus-card

## Mosque

The University mosque serves not only as a religious and spiritual center, but a striking visual landmark at the edge of the campus, and a beautiful reminder of the country's
traditions and heritage. Although the women's campus does not have a central mosque or prayer facility, praye rooms are available in many of the buildings. These rooms are appropriately furnished for prayer services and reserved for women.

## Post Office

The on-campus Post Office is the branch of Q-Post, which offers a variety of solutions to meet the student or faculty mailing needs, whether they are sending urgent or valuable mail, parcels or international mail. This office is located in the Women's Activities Building.
RESEARCH UNITS, CENTERS AND INSTITUTES
Qatar University has a number of research centers and units which are highly active, both for university academia, Qatar and the scientific community at large.

## Center of Advanced Materials (CAM)

The Center has been established as a multi-disciplinary research and resource center, bringing together state-of the-art instrumentation, facilities and expert personnel. research activities in Qatar, with the goal to develop a knowledgebase in design, synthesis, and characterization, as well as intelligent processing of advanced materials.

Driven by the needs of potential technological applications, CAM concentrates on applied research in the areas of

Nanotechnology, Composites, Corrosion, Construction materials and life cycle assessment. The Center also implemented an integrated graduate training program that techniques covering a broad spectrum of materials and experimental probes. Furthermore, CAM offers community services as well as professional training courses to industry, for which details and applications are available at the Center's website. http://www.qu.edu.qa/offices/ esearch/CAM/index.php
Environmental Studies Center (ESC) The ESC conducts many aspects of environmental The ESC conducts many aspects of environmental
analysis on the important natural flora and fauna of the region. The Center is often contracted by government or private agencies outside QU for consultation and potential impact assessment of industrial development. The Cente utilizes a large range of technical equipment, including a modern ocean vessel for conducting experiments and gathering data.

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

KINDI Center for Computing Research (KINDI) The KINDI Center facilitates and supports Computer and Information Science and Engineering research at Qatar University by fostering quality research programs to tack elevant issues, while engaging the QU critical mass of researchers and students, and leveraging existing local
and international partnerships. KINDI conducts worldclass research while serving the QU community, as well as Qatari Society. The name KINDI is an acronym for Knowledge Intelligence, Networked Data and Interdisciplinary research, which are the broad themes of he Center. KINDI is also the name of a renowned Muslim Scientist (أبو يوسف يعقوب إبن إسحاق الكندي) who was a physician wo KINDI areas of strength in bio/health informatics and cyber security.

## Central Laboratory Unit (CLU)

The CLU provides analytical and technical support and consultancy to serve research activities and testing needs.

The Unit also works to optimize and upgrade the practical performance of technical staff and students, as well as provide hands-on exper.ence

## 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 Vice President for Research, the senior management and staff of centers and units affiliated with the Office of VP for Research, the OQM seeks to enhance the organizational effectiveness, expand its capability, and engender a culture of continual The OQM was established to ensure consistencent
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, 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 conduc high quality survey research on issues related to the development and welfare of Qatari society in the social,
economic, and cultural areas. With a sophisticated Survey Operations Unit and an experienced staff of researchers and research assistants, SESRI conducts national and regional studies utilizing best practices in survey research. It provides faculty and interested students with a plattorm to collaborate on diverse projects with topics ranging from education and values to gender, health and labo migration
Students wishing to pursue research at the university are encouraged to visit and learn more about the centers, and work with their instructors to develop projects and funding resources offers a number of grants presence in obtaining external grants and recognition from organizations such as NPRP and UREP. Additional
information is available on the QU 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 disease and testing new treatments and therapies for the wellbeing of humans and animals. The LARC offers basic training programs in humane use and care of laboratory animals. All operations and procedures at LARC are regulated by standard international, local and institutional ethical egulations.

CENTER of Continuing Education (CCE)
The CCE is a link between the University and society. The Center identifies and meets the actual training needs of society through specialized training programs, in addition to preparedness programs for professional and international certifications. It enables the greater community to benefit from the expertise, experience and esources available at the university.

Since its inception in 1995, the CCE has provided ailor-made continuing education courses and training departments. For years, these training programs, based on actual needs of society, reflect the growing demand by individuals and institutions for further programs established by the office.

## The following programs are offered:

## Genera

Training courses are offered in English), and/or Arabic In addition, the Center offers Spanish, Turkish and French languages. These are available to both the QU community and the public at large. Registration and course

## Contract (Special)

specific training courses and programs that are tailored for government or private agencies.

Certification Programs
number of helpful preparation for certification programs CMA, GCPA, CIPD, ICDL, etc.) are available for proficiency. These are available to the public, and may be studied for individually, at home
For more information on these programs and how to apply, please visit the Center of Continuing Education Website: www.qu.edu.qa/offices/ceo/

## LIBRARY

As an institution committed to academic excellence, as well as the preservation and expansion of Arab and as culture, Qatar University maintains a robust library system to meet the needs of students, faculty, employees, and the Qatari community as a whole.
The new Library building was inaugurated in October 2012, and was designed to meet the QU community's ver-growing needs in support of the University's continua ncrease 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 literan volumes. The ground and first floors are designed for female students, faculty members, staff, and visitors, while he second floor is designated for male users.
he University faculty, staff and students are able to heck out, reserve, and request books from other libraries through interlibrary loan services. Photocopying and 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 hroughout the year, where students learn essential surces and how to avoid plagiarism.
The QU Library also features a prominent set of
E-Resources, including subscriptions to many renowned urnals, e-books, and other electronic publications. Thes 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 medica are to students, faculty and staff of the University, in accordance with of Health.

A team of dedicated staff is constantly on hand, working secure the safety and well-being of the university's attendants, as well as awareness programs
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 3. Routine medical procedures for patients, including medical checkups, diagnosis and prescription of treatments.
3. Antenatal healthcare to promote the health of the mother
and her fetus during pregnancy.
4. Healthcare program to the children at the Childhood Center.
. Referral of patients to different specialist clinic approved by the Supreme Council of Health.
5. Medical support during the exam periods, campus . Contributing to University required. awareness programs. wareness programs.

## ocation, Working Hours, and Contact numbers

## Emergency number: (974) 44035050

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; anyon ay call the clinic to request support at their location. Working hours: 7:30am -7:30pm hone: (+974) 4403329 Fax: (+974) 44033286

College of Arts and Sciences Clinic: Located in the women's College of Arts and Sciences building (at the main entrance), where nurses are available to provide basic medical services.
Working hours: 7:30am - 2:30pm
e. (+974) 44033295

Men's Clinic: Located in the Men's Student Activitie building (on the ground floor), where nurses are available provide basic medical service Phone: hours: 7:30am-2

## STUDENT HOUSING

Students attending Qatar University are eligible to apply for student housing. The University provides a safe and secure environmay from sudens to enjoy their academi the-art student housing and learning community is und 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 universit. Rooms are fully furnished and offer comfortable and practical living space for active students. Lounges and enabling students to get together for studies and recreation. A computer lab is also available. In order to ensure the best possible experience fo 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 premises wherever possible.

## CAMPUS SECURITY \& SAFETY

The Department of Security and Safety is committed to providing students with a safe learning environment while keeping the university community informed about campus security. Visitor permits are issued to individuals, companies, alumni and conference attendees. Car permits
are also issued for all students. For additional information, are also issued for all
htp://www-qusdu.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. 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
index.php

## CHAPTER 3

STUDENT SUPPORT AND SERVICES

## COMMUNITY ENGAGEMENT AND SERVICE

 EARNINGQatar University fosters collaboration with the community by investing student and academic resources toward he enrichment of life in our local, national, and glob and projects in which community-based partnerships are entral to learning outcomes; enhancing existing courses and projects by integrating community engagement into he experience; and creating new initiatives that bring multiple disciplines together to work on shared community based projects that promote positive social engagemen into practice, and understand the complexities of practical problem solving in real-world situations. Through their articipation, students are prepared to be effective civic aders 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 g invaluable skills and experiential knowledge that they will continue to develop during their time on campus and with us at: studentactivities@qu.edu.qa

## STUDENT LIFE

## Campus Event

All students are encouraged to develop their unique personal as well as academic potential by participating a wide variety of university-sponsored student earning, 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 pportunities that are publicized on campus throughout the year. Get involved and bring your learning to life with campus activities and events.
Sports and Recreation

QU offers students, alumni, faculty and staff a wide range of opportunities for competitive and recreational sports. hroughout the year, stud are given the opportuni universities, or the community.
These programs are designed to promote a teamoriented 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 raining 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 stadium for men, and indoor sports complex for omen. The aquatic complex includes a diving pool, an the size pool, and a children's/raining pool. A variety of sports can be played in the outdoor courts, including eld and athletic track aske ball. in addion, a year foob $A$ -ll $q$ unped gymasium has for indor sports and recreation events and opportunities.
able tennis, biliiards, 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 students participating in QU-sponsored programs. The Departmen Iso provides a diverse to itries like Indonesia China Nepal and other places around the world.
umerous and diverse off-campus opportunities are available, including
Academic/research conferences where students epresent Qatar University by presenting and defending heir research in various forums, both regionally and iternationally.
University students vis excursions where select Qatar University students visit reputable educational institutions An example of this type of program is the program with Peace College located in North Carolina, USA.
basis regionally or internationally in sports, recreational or educational activities. Currently, QU students regulari aricipate in he Culural and Scienc week MENA countries like Egypt and Oman

- For-credit study abroad and exchange programs.

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

## QU LEADS: Leadership Education and Development

 for StudentsThe LEADS Program at Qatar University is a unique, integrated and transdisciplinary certificate program for
students, offered through the Department of Student Activities in collaboration with academic departments, other universities, governmental organizations and entities and other content experts. The program is designed to meld together traditional concepts of student leadership development, learning and student life to create an experience that prepares students to engage actively in a
world that is dynamic, integrated, globally interconnected and full of challenge. The QU LEADS Program prepares students "who can get things done in the world and are prepared for effective and engaged citizenship" at all levels of society (Learning Reconsidered, 2004).

The QU LEADS Program is comprised of four key components: a four-level Leadership Certificate Course;
Alumni Mentoring and Leadership Alumni Mentoring and Leadership Development; and International Partnerships and Programming The Qi LEADS program partners with universities, embassies, programs, etc. around the globe to provide a wide rang of international opportunities and experiences for QU students. These experiences are open to students at all levels of the QU LEADS Program who demonstrate a keen interest and dedication to leadership developmen and practice at
communities.

The majority of the QU LEADS Program courses are offered in Arabic. Translation is made available when the programs are delivered in another language. Contact the QU LEADS office at quleads@qu.edu.qa for more information.

## Academic Support Services

The Student Learning Support Center (SLSC) provides academic support services to undergraduate and Foundation Program students at QU. The SLSC is a welcoming environment where students can seek assistance with academic coursework, writing assignments,
transitioning to college academic life, and other academic issues. SLSC services include: peer tutoring, the English Writing Lab, the Arabic Writing Lab, the Math Lab, the skills and writing workshops. The SLSC's Supplementa 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 o help students become independent and successful learners by improving study skills and self-confidence,
increasing knowledge of course material, encouraging a positive attitude toward education, and preparing students for lifelong learning.

The SLSC Section of Academic Support houses three units: the Math Lab, the Language 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 Language Lab is available skills in both English and Arabic Languages. The Academic Success Lab provides additional support for students enrolled in core curriculum courses and historically difficult science courses, as well as for students needing help with study skills.
The SLSC Section of Writing Support houses the Arabic Writing Lab and the English Writing Lab. The main goal of by providing tutoring sessions that focus on enhancing by providing tutoring sessions that focus on enhancing every stage of the writing process, from generating ideas to completing the final draft. The services provided do not include editing, proofreading, marking, or doing homework for the students. However, specialists and peer tutors will guide and talk them through their concerns regarding ertain assignments or homework.

The SLSC is located in the Faculty Building and the Women's Activities Building, and all services are fre of charge to QU students. For additional information on academic support services at QU, visit the Student Learning Support Center website:
http://www.qu.edu.qa/students/services/slsc/index hp.

## Career Services

The Career Services Center provides counseling, training and professional development services and helps to prepare students to engage and compete for the best students with student employment during their study
at QU. Additionally, the Center assists students with sponsorship, internship and full-time job opportunities and provides numerous career-related resources, programs Services Center website at:
Services Center website at:

## Counseling Services

The Student Counseling Center provides the QU community with a variety of counseling and psychological services, which include individual and group counseling sessions that help students overcome any impediments and social growth via sessions and groups on selfdevelopment, marriage, community outreach programs top readers, role models and First Year Success. The 1st Year Success sessions help freshman students adjust to the demands of college in their first year of studies. All students receive training in time and stress management, study skills, achieving academic success, personality assessments, goal setting, relationship issues, building Readers Program promotes a reading culture, critical thinking, and acceptance among students. The Center also offers various other workshops that enhance students' self-development. Literature on self-help topics is available at the Center, as well as contacts in the community if needed.
Confidentiality is very crucial; no student's information will be exchanged with other parties unless the student taken during counseling sessions is not part of the student academic record.
Students can book their appointments online, in person or via phone. For additional information regarding these services, please visit the Student Counseling Center website at: http://www.qu.edu.qa/students/services/ scc, twitte
QUSCC.

## Enrollment Services One-Stop Section

Enrollment Services One-Stop provides QU applicants, students and graduates 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
解 Ground Floor of the Admissions and Registration Building

## Student Helpdesk

The Student Helpdesk provides students with a single point of 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 a campus tour 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
or more information, please see:


## Reception Desk

The Reception Desk responds directly to the walk-in students in any general questions. The desk is also helping students to ease any procedures that they may ace difficulty with, in addition to trying to find the best solutions to complicated problems that need study and ollow-ups.
The Reception Desk is located in the Admission and Registration building, on the ground Floor.

## the Student Center

 current or graduate students, parents, and any external stakeholders, and provides them with answers on issues elated to all services offered by the University, and direct hem to the related departments as necessary. working hours: weekdays 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 eviy admitted students, current students and studer know its buildings and services through well-organized, informative and entertaining tours.

## Parents Program

The Parents Program provides communication between 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 or 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 arents can contact the Parent Program at 4403-3768 4403-5967, or via email: parents@qu.edu.qa

## ternational Students

The International Students Section provides support services designed to assist international students with any academic, personal, financial and immigration elated questions or issues, and presents students with opportunity to become solud the QU community. countries. The International Students Section is responsible the welfare of the students whose residency pernation students to secure their entry visa, residency permit, nd exit permit; issue annual airline tickets for eligible holarship students; issues formal sponsorship letters, and coordinate accommodation with the QU Housing artment
The International Students Section also oversees admission to the Arabic for Non-Native Speakers Program or additional information, please visit their website a: http://www.qu.edu.qa/students/services/is/index/php.

## ew Student Orientation

New Student Orientation is a full-day event designed assist new Foundation Program and undergradua 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 onnect with their academic advisors, college peers, and ultimately, with Qatar University

Attendance at the New Student Orientation is mandator for all new Foundation Program and undergraduate tudents. Students who fail to attend their assigned rientation day may not be able to attend Qatar Univer and will need to re-apply for admission in a future semester. For more information, please visit the New fudent Orientation website at: http://www.qu.edu.qa dents/admission/new student orientation.php

Special Needs
Qatar University is committed to providing all academically qualified students with educational opportunity. Every fffort is exerted to ensure fair and appropriate access to programs, services, facifities, and activities for students with special needs. The Special Needs Center provides
services and support technologies that are tailored to the dual students throughout their tenure at the University.
urrently 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 assisive technology, studnote-takers/note taki priority registration- and advocacy with faculty to ensure appropriate academic accommodations.

For additional information on services offered by the Special Needs Center, please see
htp://www.quedu.qa/students/services/special needs/index.php


## CHAPTER 4

## ADMISSION

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

## HIGH SCHOOL REQUIREMENTS

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

1. General Secondary Schools

The 12th grade final high school percentage is used when The 12th grade final high school percentage is used when

## 2. Independent Schools

Effective from the 2009/2010 academic year, graduates from independent schools are considered for admission according to Qatar Senior School Certificates (QSSC) on
the basis of the total rer the basis of the total result for the final year of high school the 2009/2010 academic year will be considered on the basis of the table of score equivalency in the respective academic year.

## PRIVATE AND INTERNATIONAL SCHOOL

## CERTIFICATES

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

1. Grade Point Average (GPA) System

Agraduate of an American secondary / high school or holder of an AP (Advanced Placement) certificate mus Earned with a High School Diploma Curriculum with a minimum cumulative a General Studies 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 English Language course during the Junior or Senior yea
2. British Secondary School Certificates A student who has sat for one of the British Secondary School Examinations must have fulfilled the following equirements:

- Completed grade 12 or year 13, depending on th system from which the applicant has graduated.
Passed at least five "GCS
Passed a minimum
A) or (AS) level, or a combinjects at the Advanced 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, a least two of 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. As the official results for this school system will be released after QU has announced admission decisions, applicants may submit predicted grades by the submission deadline. Applicants who submit predicted high schoo
. 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 Exam fo Assessment in Higher Education, achieving the minimum grade percentage required by their major/program of choice.

EARLY CONDITIONAL ADMISSION Early conditional admission is provisional admission pending successful completion of the final year of high school and submission of all admission requirements. It will be considered for all Qatari applicants and applicants with a Qatari parent in their final year of high school,
regardless of their high school system. The students wil 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.
2. Applicant should submit all required docum

## 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:
Copy of applicant's 11th year transcript.
Copy of applicant's 12th year, first semester transcript. submit predicted grades using the QU form, in addition to official result certificates

- Photocopy of the applicant's Qatar ID card


## Important Notes

All applicants are required to satisfy all admission requirements and submit all other required admission documents including a final, official and certified high conditional admission is provisional admission pending successful completion of the final year of high school while maintaining the advertised minimum high school percentage $85 \%$ and satisfy all admission requirement ( $90 \%$ for the College of Medicine ).
All applicants who do not satisfy the minimum
requirements for Early Conditional Admission will still be considered for regular admission upon submission of their final and official high school results and according to Admission criteria.

## Provisional Admission

As official results for the British Secondary School system (IGCSE, AS, and A-Level results) and the International announced admission decisions, in-progress applicants from these two school systems will be considered for Provisional Admission based on predicted grades. The Provisional Admission process allows applicants from the British Secondary School and the International Baccalaureate systems to be considered for admission based on anticipated results of coursework that is currently in progress. Students granted Provisional Admission must formal admission to QU. Provisional Admission is limited to applicants from the British and International Baccalaureate school systems only.

HIGH SCHOOL PERCENTAGE EXCEPTION

Applicants who do not satisfy the initial high school percentage requirements listed above may still apply the college of their choice by completing 12 years of requirements: equirements: Economics, Education, Law, and Sharia:
Competency $\quad$ 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 gainst the quality and depth of the applicant pool, the vailable capacity within the applicant's intended majo and high school subject grades.

## TRANSCRIPT REQUIREMENTS

Qatar University requires that all transcripts submitted in upport of an admission application be final, official and

Qatar Government and Independent High Schools
All applicants who attended a government or independen high school located in the State of Qatar must ensure that he following transcript requirements are met:

1. The transcript must be final.
2. The transcript must be official.
. 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
. 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. Education and Higher Education for Privanistry of

International Private High Schools
All applicants who have attended a high school outside of Qatar, must ensure that the following transcript requirements are met

1. The transcript must be final. 2. The transcript must be officia 3. An Arabic or English translation of the final transcript other than Arabic or Engliscript if it is issued in a language Ather than Arabic or English Ministry of Education or the must be certified by either the the country in which the school is located.
2. The Transcript must be certified by either the Qatari Embassy in that country or the embassy of that country located in Doha

## UNIVERSITIES LOCATED IN 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 officia
3. The transcript must be stamped and signed by an appropriate university official.
by the Qatar Ministry Education (no Ministry stamps required from universities nown to be recognized)

## UNIVERSITIES LOCATED OUTSIDE OF QATAR

1. The transcript must be final
2. The transcript must be officia
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 required.
requred.
5. If the university is not accredited internationally, the transcript must be certified by the Ministry of Higher university is located The transcript must also be celtie by either: The Qatari Embassy in that country; or embassy of that country located in Doha.

## UNDERGRADUATE APPLICATION CATEGORIES

Applicants are offered undergraduate admission to Qatar Applicants are offered undergraduate admission to Q

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 equired to submit the following
e-payment of QR 200.

- Final and official high school transcript.

Health certificate issued inside Qatar.
Photocopy of the applicant's Qatar ID card (Non-Qatari applicants must also submit a copy of their passport). - Two (2) recent, identical, passport-size photographs with a white background.

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

All applicants who are currently attending or have previously attended another university and passed Qatar University's requirements and conditions are considered transfer applicants and may apply for transfer admission to Qatar University. Transfer credit may only be considered the applicant is admitted as a Transfer student. Transfer applicants may apply for either Fall or Spring semesters dar

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 an Higher Education or equivalent authority in that country 3. Met Qatar University's English competency
equirements by satisfying either of the following
Submit official English test score reports taken within the last two years.
Completed a minimum of 24 credit hours and two semesters at an institution of higher education where proving this must be submitted at the time of application order for exemption to be considered pplicants who do not satisfy these equirements are not eligible for Foundation Progra admission.
3. Met Qatar University's Mathematics competency
equirements. Applicants who do not satisfy these competency requirements are not eligible for Foundatio Program admission
.Applicants who were subject to disciplinary action or non-academic dismissal at a prior university/college may 6. Submitted required documents before the admission deadline.

Transfer applicants are required to submit the following documents to the Admissions Department:

- Complete Online Admissions Application with an
-payment of QR 200
Official English and math university transcript
Onficial English and mathematics competency scores (if
applicable).
- Photocopy of the applicant's Qatar ID card (Non-Qatar 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 QU undergraduate transfer admission requirements for the semester of intended admission, and must submit all appropriate application materials and supporting documents to the Admissions Department by the admission deadline

## Requirements for Transfer of Credit

## Transfer credit may be considerd for evaluation aft

passing the following criteria: Applicant has su

1. Final, official and certified university transcript.
2. Detailed course syllabus stamped from the registrar's
3. Detailed course syliabus stamped from the registrar's university (syllabus sample)

- A minimum grade of C is needed for any credit hours been completed within the last five years.
- A maximum of $50 \%$ of required credit hours for the submitted program may be considered for transfer cred evaluation; the colleges will individually determine the exact number of credit hours that may be transferred and applied towards their specific degree programs.
- Grades and quality points earned in courses accepted for transfer will not be included in the grade point average to 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 dmission to limited number of ar University degre rogra

## Requireme

University:
. To be considered 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 de
Business Management (Accounting)
Business Management (Human Reso
Business Management (Marketing) Electrical Engineering Technology "power and controls" - Mechanical Engineering Technology

Instrumentation Engineering Technology Telecommunication Engineering Technology Internet Applications Developer
Programmer Analyst (Business)
2. Applicants must submit all required documents by the admission deadline.

To be considered for admission to Qatar University under his articulation agreement, applicants must submit the ollowing:
Complete Online Ad
epayment of QR 200
Final, official and certified CNA-Q transa
Health Certificate issued inside Qatar
Photocopy of the applicant's Qatar ID card (Non-Qatari
applicants must also submit a copy of their passport). Two (2) recent, identical, passport-size photographs with white background.

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

Applicants who were subject to disciplinary action or noncademic dismissal from a prior university/college may no cadly or enroll as a transfer student
ransfer of Credit from CNA-Q
Transfer credit may be considered for evaluation after passing the following criteria:
Appicant has submitted the final, official and certified transcript from the College of the North Atlantic - Qata

- 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.
program may be considered for transfer credit submitted the colleges will individually determine the exact number of credit hours that may be transferred and applied towards their specific degree programs.
- Grades and quality points earned in courses accepted fo transfer will not be included in the grade point average to be maintained at Qatar University, but the credits will coun toward the total number required for graduation.


## TRANSFER FR QATAR (CCQ)

All applicants who attended the Community College of Qatar (CCQ) and who have earned at least 24 credit hours are eligible to apply for transfer admission to Qatar University. Transfer applicants from CCQ may apply for Her Foring semest

Transfer Admission Requirements (Graduates) Associate in Arts (AA) or Associate in Science (AS) degre and who meet the following minimum criteria will be considered for admission to Qatar University:

1. Successfully completed either an Associate in Arts (AA) or Associate in Science (AS) degree from CCQ.
undergraduate coursework from CCQ with a minimum cumulative GPA of $2.50 / 4.00$.
2. Only CCQ graduates with an AS degree are eligible for Science-based majors at Qatar University.
3. Submit required documents by admission deadline. AA and AS degree graduates from CCQ are exempted from QU's English and mathematics competency requirements.

Transfer Admission Requirements (Non-Graduates) Applicants who wish to transfer from CCQ before Appmpleting their AA or AS degree must satisfy the following minimum criteria in order to be considered for admission to Qatar University:

1. Have completed a minimum of 24 credit hours of undergraduate coursework, with a minimum cumulative GPA of 2.50/4.00 at CCQ
2. Met Qatar University's English and mathematic 2. Met Qatar University's English and mathematics
competency requirements, if applicable. Transfer applicants to colleges that require the Foundation Program who fail to satisfy the minimum English and mathematics competency requirements are not eligible for admission to the Foundation Program. Applicants who were subject to
disciplinary action or non-academic dismissal from a prio university/college may not apply or enroll as a transfer tudent.
required documents by the admission

## deadline

Transfer of Credit from CCQ
Transfer credit may be considered for transfer credit evaluation if it passes the following criteria
A minimum grade of C is needed for any credit hours submitted for transfer credit evaluation, and must have been completed within the last five years.
Subaximum of $50 \%$ of required credit hans transt A maximum of $50 \%$ of required credit hours for submitted the colleges will individually determine the exact number of credit hours that may be transferred and applied towards heir specific degree programs.
Grades and quality points earned in courses accepted for transfer will not be included in the grade point average to be maintained at Qatar University, but the credits
toward the total number required for graduation.

## 3. Visiting Students

Applicants who are currently attending another university and who do not intend to graduate from Qatar University may be considered for admission as a visiting student. Visiting admission is available for the Fall, Spring and/or Summer semesters and visiting students may register in a maximum of 48 credit hours or 4 semester
at Qatar University, whichever comes first.
Al visiting applicants who meet the follow
criteria will be considered for admission to Qatar University:

1. Have earned a minimum cumulative GPA of 2.00 Applicants who have been admitted to a university for a future semester and who wish to take classes at QU before enrolling at that university are required to provide a copy of the
2. Must submit all appropriate application requirements to he Admissions Department by the admission deadline.

In all cases, the home university must be accredited by an international accrediting association or by the Ministry of Higher Education or equivalent in that country

## Visiting Admission Requirements

All visiting applicants are required to submit the following documents to the Admissions Department:
Complete Online Admissions Application with an
e-payment of QR 200
admission certified university transcript or letter of admission to their home university if not yet enrolled

Health certificate issued inside Qatar Photocopy of the applicant's Qatar ID card (Non-Qatar applicants must also submit a copy of their passport). who (2) recent, identical, passport-size photographs with white background.

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

Visiting students may be eligible to apply for transfer admission to Qatar University. To be considered for transfer admission to Qatar Unive
satisfy the following requirements

1. Have completed a minimum of 24 credit hours of undergraduate coursework with a minimum cumulative GPA of 2.50 out of 4.00 from a university accredited by an Higher Education or equivalent authority in that country. 2. Have completed a minimum of 24 credit hours of undergraduate coursework in residence at Qatar University with a minimum cumulative GPA of 2.00 out of 4.00 . 3. Met Qatar University's English and Mathematics competency requirements as required by the respective college.
2. Satisfy all QU undergraduate transfer admission requirements for the semester of intended admission and supporting documents to the Admissions Department by the admission deadline.

Visiting students, who are granted transfer admission to Qatar University and who satisfy the following guidelines, may be eligible for transfer credit consideration towards a QU degree:

1. A maximum of 36 undergraduate credit hours earned at Qatar University in courses passed with a grade of "D" or higher may be applied. granted transfer admission to QU may also seek to transfer undergraduate course credit from prior universitie to their Qatar University degree. All transfer of credit regulations apply.

## 4. Non-Degree Students

The University offers non-degree admission to a limited number of individuals who may enroll in undergraduate credit courses at QU but who are not considered pursuing an undergraduate degree program. Non-degree stu
may register in a maximum of 48 credit hours or 4 semesters of course work at Qatar University, whichever
comes first.
All non-degree applicants who meet the following minimum criteria will be considered for admission to Qata University:

1. Have earned an undergraduate degree with a minimum cumulative GPA of 2.00 from a university accredited by an international accrediting association or by the Ministry of Higher Education in that country.
2. Satisfy all QU undergraduate admission requirements or the semester of intended admission and must submit Il appropriate application materials and supporting admission deadline.
All non-degree applicants are required to submit the following documents to the Admissions Department Complete Online Admissions Application with an -payment of QR 200.
Final, official and certified university transcript. Health Certificate issued inside Qatar.
hotocopy of the applicanis Qar ID card (Non-Qatari Two (2) recent identical passortsize phassport) t-size photographs with

Non-degree applicants must satisfy all QU undergraduate admission requirements for the semester of intended admission, and must submit all appropriate application materials and supporting documents to the Admissions Department by the admission deadline
At Qatar University, non-degree students may apply a second bachelor's degree. Non-degree students ma apply a maximum of 48 undergraduate credit hours earned at Qatar University in courses passed with a grade of "D" or higher toward a second bachelor's degree. All second bachelor's degree requirements apply.

## 5. Second Bachelor's Degree

A student who has previously earned a bachelor's degree and wishes to pursue further undergraduate work in a different major, may apply for admission to a second bachelor's degree at Qatar University.
All applicants seeking a second bachelor's degree who meet the following minimum criteria will be considered for admission to Qatar University:

1. Earned bachelor's degree with a minimum cumulative GPA of 2.00/4.00 from a university accredited by an Higher Education or equivalent authority in that country. 2. Met Qatar University's English competency
requirements by satistying either of the following Submit official English test score reports taken within the last two years.

Earned a previous undergraduate degree from an stitution of higher education in a program where English proving this must be submitted at the time of aplication of application in Applicants who do not satisfy thes requirements are not eligible for Foundation Progran admission.
3. Met Qatar University's mathematics competency
requirements. Applicants who do not satisfy these competency requirements are not eligible for Foundation Program admission
4. Pursue a different major than was earned in the first bachelor's degree.

## Required Documents:

All second bachelor's degree applicants are required to submit the following documents to the Admissions Department:

- Complete Online Admissions Application with an e-payment of QR 200
- Final, official and certified university transcript
- Official English and Mathematics competency test scores - Health Certificate issued
- 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.
The Qatar University cumulative Grade Point Average (GPA) and earned credit hours will be assessed continuously through the period of study of the student at the Undergraduate level. Qatar University will assess appropriate tuition and associated fees for all students degree.


## RE-ADMISSION

Readmission is the process by which applicants previously admitted and enrolled in at least one semester at Qatar University request their return to QU. Applicants seeking readmission are required to apply to their intended college of study by submitting the QU online admission application and requirements by the admission deadlines.
Eligible applicants for readmission to Qatar University 1. Previously admitted students who officially withdrew from the university. (students placed under the "withdraw
from university" status). 2. Previously admitted students who were absent from the university for more than four consecutive regular semesters without prior approval (students placed under the "Long Absence" status).
3. Previously admitted students enrolled in the Foundation

Program who were absent from the university for more than two consecutive regular semesters (students placed under the "Foundation Absence Suspension" status).
4. Previously admitted students enrolled in the Founda Program who did not complete the program requirements within four regular semesters of enrollment (students placed under the "Foundation Academic Suspension" status).
.Previously admitted students who academically .Previously admitted students who academically
dismissed from the university. (students placed under the
"Academic dismissal" status).

## Academically Dismissed Students

Academically Dismissed Students
Students who are academically dismissed from Qatar
University may seek re-admission by applying as a Firs Year (with new High School certificate) or as a transfer applicant satisfying QU's transfer admission requirements. Courses and grades earned prior to the student's academic dismissal will remain on the QU transcript but the student's attempted hours, earned hours, and cumulative grade point average will start fresh upon repossible transfer credit according to QU's transfer credit rules.

## Termination of Admission

Students admitted to Qatar University who are not registered in classes by the end of the Drop/Add period for the semester of their admission are considered terminate students, resulting in their admission being revoked and 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 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 |  |  |
| :--- | :---: | :---: |
| Tests |  | Minimum <br> Score for <br> Exemption |
| Test of English <br> as a Foreign <br> Language <br> (TOEFL) |  |  | Paper Based (pBT) | Internet Based (iBT) |
| :--- | 600

## 2. Mathematics Competency

| Standardized Test | Minimum Score for <br> Exemption |
| :--- | :--- |
| Scholastic Aptitude Test SAT <br> (General Math component) | 500 |
| American College Test (ACT) | 21 |
| ACCUPLACER Math- APL <br> Elementary Algebra | 82 |

- 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 test. SAT and ACT scores are valid for 5 years. Students 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 acceept applications after the published
application deadline. A comprehensive listing of admission
application deadlines can be found on the Qatar University website at: www.qu.edu.qa.
Qatar University offers three terms within the Summer semester and welco $U$ visiting students. Visiting applicants dates for each of the three summer terms.

## STUDENT CLASSIFICATION

Students are classified according to the following categories 1. Regular Degree-Seeking Students
to an academic program at QU that leads to a degree.
minimum load of 12 credit ho expected to maintain a 2. Visiting and Non-Degree Students

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

## NEW STUDENT ORIENTATION

The New Student Orientation is a two-day event which aims to introduce new Foundation Program and undergraduate students to the programs, support services and extracurricular activities provided by Qatar University.
assigned to smaller groups, allowing them to become familia with their peers in their academic programs, student mentors and college faculty. Students will also meet their academic advisors and rece. egistration options.
all new Foundation Program Ond Orientation is mandatory for Students who fail to attend their assigned orientation days will not be able 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 thei admission file destroyed. Terminated students who wish to attend Qatar University in a future semester will need to reapply for admission.


For all Undergraduate and Foundation Program stuFor all Undergraduate and Foundation Program stu-
dents admitted starting from Fall 2015 and onward

| Course Major | Tuition Fees Per Credit <br> Hour |
| :--- | :---: |
| Arts | 400 |
| Business and Economics | 500 |
| Education | 400 |
| Engineering | 600 |
| Foundation Program | 500 |
| Law | 400 |
| Pharmacy | 600 |
| Science | 500 |
| Sharia and Islamic Studies | 400 |

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

| Course Major | Tuition Fees Per Credit <br> Hour |
| :--- | :---: |
| Arts | 400 |
| Business and Economics | 500 |
| Education | 400 |
| Engineering | 600 |
| Foundation Program | 500 |
| Law | 400 |
| Pharmacy | 500 |
| Science | 500 |
| Sharia and Islamic Studies | 400 |

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 ProgramTuition fees for students enrolled in the Arabic for NonNative 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 thei bachelor's degree requirements by the following credit hour limits will be assessed tuition fees for all additional credit hours taken until graduation:

| Student Category | Credit Hour Limit |
| :--- | :--- |
| Undergraduate students | Graduation with a <br> maximum of one major <br> and one minor + 12 credit <br> hours. |
| Students who changed <br> their major and/or minor <br> after being admitted at the <br> undergraduate level | Minimum credit hours re- <br> quired for graduation in the <br> declared major and minor <br> (if any) + 12 credit hours. |
| Transfer students | Credit hours remaining <br> (beyond the transferred <br> credit) for one major and <br> one minor (if any) + 12 <br> credit hours. |

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.

| Semester | Time of Drop or <br> Withdrawal after <br> End of Add/ <br> Drop Period | Penalty |
| :--- | :--- | :--- |
| Fall or Spring <br> Semester | Up to 2 weeks <br> After 2 weeks <br> and up to 4 <br> weeks <br> After 4 weeks <br> and up to 8 <br> weeks <br> After 8 weeks | $20 \%$ |
| $50 \%$ |  |  |
| Summer <br> Semester | Up to 1 week <br> After 1 week and <br> up to 2 weeks <br> After 2 weeks | $155 \%$ |

If a full week falls within an official holiday, it is no counted in the weeks shown in the above table. able apply to both tuitionpaying 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 ID card first issue is free of charges and the
student is obligated to pay 50 QR. 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.

Qatar University provides a variety of financial aid options to students. These programs are available to 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 nonrefundable. The section announces a book selling table before each semester, which is made available to students and faculty. For more information, please see: http://www.qu.edu.qa/students/services/textbooks/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 wards. All schors may also include one or morer, ore of the - 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 Countries (Embassies)

GCC Countries (Embassies)
These scholarships are awarded to GCC nationals who earn their Qatari secondary certificate or equivalent from a country other than the State of Qatar, and should be scholarships are exempted from tuition fees and receive free accommodation from the University.

## GCC Qatari Certificate Student

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 ees and there are no other benefits.

## Children of Qatari Nationals

hese 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 ther are no other benefits.

## Qatari Husband Scholarships

These scholarships are offered to non-Qatari female scholarships are to Qatari Nationals. Recipients of these no other benefits.

## Children of QU Employees

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:

slamic and Other Countries
These scholarships are available to students from the Slamic world and countries other than those of the GCC. These competitive academic scholarships are awarded to two categories; internal and external scholarship, 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 accommodation from the University, and receive a student visa under QU sponsorship.


## H.H. Emir Scholarship for Academic Excellence

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 uitions and book fees only

## Outstanding Performance

hese competitive scholarships are awarded to the highest achieving students enrolled at QU who have shown outstanding academic performance in their coursework a Qu. Recipients of these scholarships are exempted from fuition fees. No other benefits are granted.

## QU Honor Program

he Honors scholarship targets active Honors students a Qatar University who have shown outstanding academic 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

## peakers)

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.

## he following additional conditions apply to these

## three scholarship categories:

Slamic Countries and other Countries Scholarship
Academic Excellence Scholarship
Outstanding Performance Scholarship

## Foundation Program

Complete the Foundation Program in a maximum of emesters (one year).
2. If the student did not complete the Foundation Program 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 esponsible for his/her tions The student will be e-activatedup the 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.

## Undergraduate Students:

After completing the Foundation Program, the following
conditions must be fulfilled:
. Must satisfy the maximum duration condition illustrated above.
Must register and pass 15 credit hours in each regular semester. In extenuating circumstances, the student may equest an exception through his/her college accompanied by written approval from the student's Academic Advisor. 3. Must maintain a minimum cumulative GPA of 2.50 out of 4.00
4. If the student does not fulfill either of the 2 conditions above (2\&3), the student will receive a Scholarship Warning
5. If a student receives 2 Scholarship Warnings (from the same type) or exceeds the maximum duration condition: 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
esponsible for his/her tuition and fees.
b) External Scholarships for International Students: The scholarship will be terminated. In cases where Qatar visa and residency will be canceled and the student will be 6. After the student's scholarship has been canceled, he student will not be eligible to receive that scholarship again, regardless of whether the situation is amended. 7. Recipients of the Honors Program Scholarship are esponsible 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: index.php.


## 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 allow each other 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 al students at QU with clear standards of behavior. By registering as a student, all students acknowledge their 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 representative fte University (such as conferences, or athletic events club activities,
QU ex
QU expects its students to adopt and abide by the highest tandards of conduct in their interaction with professors, peers, staff members and the wider University commun responsibly in their relationships with others. Every studen expected to assume the obligations and responsibilities required from them for being members of the QU ommunit
As such, a student is expected not to engage in behaviors hat 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 alliance with policable policies, rules and laws adopted by the

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 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 ducational environment.
Show respect to other individuals at QU; Faculty,

- 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 nd regulation
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 hese 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 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 externa agencies sponsoring him/her require the release of these ecords to such agencies, the student must sign a releas orm/ orw dmitted 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 information, 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 workin 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:
Disruption of discipline includes any disruptive behavior during classes as well as any behavior
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. cheating from another student during examination; 4. copying from another's paper, giving unauthorized assistance,
4. obtaining unauthorized advance knowledge of examination questions, through the use of mobiles or other electronic devices
. obtaining false scores on machine-graded examinations; any material prepared by or purchased from papers.

Work completed for one course and submitted to another
In general, any work for one course should not be presented or another course. Similarly, the students are reminded projects, they must refer to such previous work. Academic
that when incorporaing their own past research in current assignments include research; statistical data; research interviews; homework and assignments.

## Category Three includes:

## Impersonation

Impersonation is the state in which a student or any other Impersonation is the state in which a student or any other
person fraudulently attends an exam or any academic activity or obligation in place of another student.

## Deliberate falsification of data

This involves the deliberate act of falsifying any kind of data or manipulating/distorting any supporting documentation for coursework or other academic activities.

## Complicity in academic dishonesty

Complicity in academic dishonesty means helping or Complicity in academic dishonesty means helping or academic dishonesty. This includes but not limited to doing work for another student; designing or producing a project for another student; wilfully providing answers during an exam or quiz; contacting a student on a mobile device while taking an exam and providing information; providing a student with an adivante at the site of an exam or test: and altering outcome

Intellectual Property (IP) violations / Plagiarism Respect for original intellectual creativity is vital to academic discourse. This principle applies to works of all authors and publishers in all forms. This encompasses respect for the right to acknowledgement; the right to privacy and the right to determine the
distribution.

As a general rule, copying, distributing, making derivative work, displaying, or performing copyright-protected
work requires the permission of the copyright owner. work requires the permission of the copyright owner.
For purposes such as discussion, analysis, comment, For purposes such as discussion, analysis, comment, leaching, scholarship, or research, copyrighted work may be used without permission and will not be considered an
infringement of copyright, provided that the source has infringement of copyright, provided that the source has
been acknowledged. Since electronic information is easily reproduced, respect for the work and personal expression of others is especially critical in electronic media. Violations of authorial integrity, including plagiarism, invasion of privacy, unauthorized access, and trade secret and copyright violations may constitute grounds for disciplinary actio
against any member of the academic community
Plagiarism applies to all student assignments or submitted work and it includes the use of the work, ideas, images 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, fopartment head, dean of the college, and the Vice Presiden with the Student Judiciary Committee (SJC), which a 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 Vice 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, wil observe:
a. The concepts of procedural fairess, and
b. The existing University Code of Conduct.
This will be accomplished by considering 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 th college in which the alleged academic offense took place should consult with the college's Student Affairs committee to may lead to a student's dismissal from the University should be forwarded to the Vice President for Student Affairs, who shall communicate the decision to the Vice President 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 urisdiction 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 will be treated seriously, with special attention given to repeated offences. 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 the following:

## Category One

students will be asked to resubmit the work assigned cond mernber, or to submit additional work for the course in which the offense occurred.

- A lowered grade or loss of credit for the work found to be in violation of the integrity code.


## 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 (WF) or denial of credit for the course in which the offense occurred
- Suspension for one term from the university followed by macademic privileges (Dean's list and VP list of honors)
Reprimand from the dean of the college, a reprimand is the deas statement of disapproval of behavior issued by 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 Univers
that the act misconduct could result in additional disciplinary action.
- Suspension for two consecutive terms
- Expulsion from the University.

Temporary suspension of granting the Academic degree - Cancelation of the Academic degree granting decision granting the degree.

## RROCEDURES AND GUIDELINES

1. The immediate responsibility for dealing with instances of academic dishonesty, plagiarism, disruption in classroom and other academic violations rests with the faculty member In any case of academic offense committed by a student, the aculty member should fill out the relevant form of student the student's personal file in the college's archives and within the office of the VP of Student Affairs (VPSA). This action will allow the University to monitor and record multiple cases of student offenses at the university level
2. In the case that a faculty member is convinced that the alleged offense has resulted from a lack of judgment on the student's part rather than an intended dishonesty, the faculty member shall require the student to submit an acceptable 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. 3. In the case that a faculty member is convinced that he alleged offense is intentional, the following options are possible:

- Asks the student to apologize and continues the work with honesty and confirmation to rules.
- Deduct the student's grade during the assignment or test - Asks the student to hand in the paper to be graded - Askade of Zero

4. The faculty member who is reporting an allegation of dishonesty must report such action within 3 working days from the date of occurrence or discovery of the alleged offense. The form "Offense Record Form" should be forwarded to the VPSA and the Department Head in which the alleged offense took place.
5. 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.
6. The form is then forwarded to the dean of the college for either the final decision, or to be forwarded to the Vice President for Student Affairs. At the college level, the dean's decision must be based on the recommendations given by selected at the beginning of the academic year.
selected at the beginning of the academic year.
7. In all cases, offenses must be recorded and sent to the Vice President for Student Affairs for monitoring purposes. 8. In all cases, the student must attend any meetings requested by the college in which the offense has taken place, or by the University, for hearing purposes. Failure to do so may result in making decisions based on available facts. 9. In cases where the faculty member is not satisfied with the decision of the College Committee, he/she may appe 10. A student does not have the right to drop or withdraw from the course in which he is subject to investigation for violation. In case the course was dropped, the University has the right to re-register the student in the course and implement the suggested measure by the committee that is
looking into the case or the judicial committee.

DEFINITIONS OF NON-ACADEMIC VIOLATIONS Non-academic violations of QU's code of conduct are divided into three categories:

## Category one includes:

1. Illegal trespassing or entering on any University property, including any building, structure or facility. 2. Any inappropriate behavior that negatively affects the educational environment within QU Campus including traffic vobstructions of traffic.
2. Damaging, destroying or defacing university property or 3. Damaging, destroying or defacing university p
that of any person while on university premises. 4. Unauthorized possession, duplication or use of keys of university buildings, facilities, or property.
3. Unauthorized entry into or use of university facilities o property, including computer hardwares and softwares. of signs, notices, flyers, banners, and announcements.

## Category two includes

1. Aggressive, disruptive, destructive, or abusive behavior towards faculty members inside the classrooms or even outside the campus or through channels of social media 2. Harassment (verbal or physical) and/or intimidation of peers, faculty, and university visitors and employees in person or through channels of social media or emairs. 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 QU campus.
2. Violation of Qatar University Dress Code: QU recognizes cultural diversity and respects the requirements needed for a productive learning environment. Students, both males of the local Qatari culture and traditions as well as the 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.
3. Using any social media channel to defame QU or posting pictures of any of the QU staff, faculty members, or students without their consent.
4. Violation of the Confidentiality policy by unprofessiona exploitation of any Student Employment position in any information about any member of QU faculty staff or student. It also includes illegal use of any senvice.

Category three includes:

1. Any behavior that would threaten the lives of others physically or morally 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 segregation. Violations of this respect of norms includes as well inappropriate behavior including verbal or physical harassment 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 while on university premises or in connection 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 th violations and their impact on all involved parties and they include:

Category one:

## 1. Reprimand.

2. Written or oral warning

Loss of muder en loyment eligibility
Loss of merit scholarship
5. Restitution: reimbursement to the University for any
damage or misappropriation of university property atte the campus Facilities department values the magnitude of damage.
6. University Service: A student may be required to do a number of service hours, engaging in light work tasks, such as the maintenance of college/university property and/or clerical work.

Category two:

1. Written Warning: in case there is a clear violation of QU dress code and incongruent with the expectations of Qatari society such as sleeveless shirts or short skirts/pants. It applies to an extreme level of Makeup in case of female students.
2. Restriction by exclusion from participation in socia activities, which includes but is not limited to being prohibited from: representing QU in any official activity or event, be it cultural or athletic; entering any of university facilities; or serving as an officer of any student organizations.
3. Dismissal for one semester or more
4. Strongly advised to attend treatment or counseling, as determined by the director of the Student Counseling Center, in consultation with the VPSA.
5. Loss of merit scholarship
. Expulsion from University

## Category three

. Restriction by exclusion from participation in social activities, which includes but is not limited to being prohibited from: representing QU in any official activity or event, be t cultural or athletic; entering any of university facilities; or serving as an officer of any student organizations.
Dismissal for one semester or more in case the same Strongly advised to
3. Strongly advised to attend treatment or counseling, Center, in consultation with the VPSA.
4. On or off campus Service duty: A student may be required to do a number of service hours, engaging in light work tasks, such as the maintenance of college/university property and/or clerical work
Expusion from univessity especially in case of repetition of violations or the enormity of the violation.

As for non-academic offenses, any member of the university community may file a charge of misconduct against any student. The concerned party should fill out a non-academic offense record form within three days of the occurrence of the
incident. Charges are to be filed with the Vice President for Student Affairs who will notify the student of the offense with the Code has been violated and decide an appropriate esponse. The University keeps the right to inform the parents or custodians of the student at any time during the investigation process.

## RROCEDURES AND GUIDELINES

The following procedures are to be followed in case of noncademic offenses by students:

1. Fill the form of non-academic violation
2. Send the form to the office of the VP of student affairs. complaint, check the student's record and record the complaint.
3. The discipline officer will decide if the complaint should be referred to the judicial committee or to be dealt with in the VP office.
4. 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 in VP office, the discipline officer will recommend the appropriate
5. 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.
6. The office of the VP of student affairs will inform all concerned parties about the decision such the registration
department, activities 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 confidentia fecords in the office of the VPSA and the respecive dean graduates or ceases to be a student. Suspension and expulsion charges will become part of the student's official ranscript 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 should appeal against the disciplinary decision recommended by the judicial committee during the first 15 days after being nformed 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

## RESOLVING STUDENT DISPUTES

atar University is committed to a policy of fair treatment of students in their interactions with all other members of the University community.

## ACADEMIC DISPUTES

Academic disputes may include, but are not limited to: admission, grades during the academic semester, academic uspension, charges of dishonesty, plagiarism, deliberate orgery of data, work completed for one course and submitt Grade change appeal is excluded from this section pleas 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 faculty member in light of the academic process For example, it applies to disputes over grade assignments or degree requirements or 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 is reasonably possible after the student becomes, or should become aware of the matter. If the student and faculty should discuss the objection with the faculty member's department head. If the complaint remains unresolved, the student should discuss it with the College Dean. In these informal discussions, the department head or dean is encouraged to mediate the dispute. In particular, he/she should talk to both the student and the faculty member, separately or together, and should examine any relevant evidence, including any documentation the parties wish to head or the 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 locatio
of the incident. The student will be informed of the decision of the incident. The student will be informed of the decision
by e-mail within ten (10) business days of the complaint's submission. Note that this process is confidential.
2. If the student is not satisfied with the outcome, he/she has the right to appeal the decision within ten (10) business days of its announcement. The result of the appeal will be e -mailed to the student within ten (10) business days of submitting the appeal
3. In all cases, if the student does not receive a formal response within ten (10) business days of the complaint mission, he/she should consider the request rejected
were not propely the student believes that the procedures the decision to the Vice President for Student Affairs. The appeal must be filed within ten (10) business days of the date of the decision. The Vice President for Student Affairs shall review all documentation relating to the appeal and make ad fintil $A$ and final and forther appeal so avaliable.
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, informed of the withdrawal Complaints which have been closed may not be withdrawn.

## NON- ACADEMIC DISPUTES

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

SCOPE
This section sets forth the procedures which should be ollowed 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.

## NFORMAL RESOLUTION

The student should first try to resolve the complaint informally as soon as reasonably possible after the student becomes, should become aware of the matter. If the matter involves reach an agreement, the student shall discuss it with the stafl member's supervisor. Similarly, if the matter involves a faculty member, and the student and the faculty member cannot
reach agreement, the student shall discuss the grievance with the faculty member's department head. Although udents are encouraged to rosive he complain inormally process be bypassed.

## ORMAL RESOLUTION

. Submit the official online application through myBanner within ten (10) business days of the incident outlining the complaint, the individuals involved, the date and location of the incident
. The Vice President for Student Affairs will review and direct the complaint to the appropriate department. The ensure confidentially. The student will be informed of the decision via email within ten (10) business days of the complaint's submission.
3. If the student believes that the procedures have not been properly followed, he/she has the right to appeal the decision within ten (10) business days of the decision. The Vice President for Student Affairs shall review all decision. At this stage, the outcome of the appeal is fina and no further appeal is available.
4. The decision of the appeal is final and may not be appealed. In cases where the Vice President for Studen Affairs recommends dismissal from the university, the student may submit an appeal to the university president. 5. All documents related to the complaint, appeal, and 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-o-know basis. This information is used for the purpose of investigating and resolving the complaint in accordance with QU policy.


## CHAPTER 7

## ACADEMIC POLICIES AND REGULATIONS

## registration

Once admitted to QU, students must select and register in courses required for their degrees. Registration for classes akes place prior to the beginning of every semester. udents are assisted by academic advisors to ensure hat 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 steps and requireme

Methods of Registration
Students should register for courses online through their myQU portal after consulting with their academic adviso $h$ 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 cations, meeting times, and faculty assignments for all egistered courses.
tudents experiencing difficulty accessing their myQU poral should contact the ITS Helpdesk by email at helpdesk@ qu.edu.qa.

Important Registration Information
Students are responsible for their own registration. They re only officially registered in a course when the cours ppears on their myOU schedule.
is sometimes necessary for an academic department or college to make changes to its class schedule, such as a change of class time, location, instructor, merging sections, or even canceling a course. Departments will make every effort to announce such changes in advance; however, it is the student's responsibility to follow up their registration status according to such changes. The first week of classstudent'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) uring 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 egisurses 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 ftudent 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 site.
cademic Load
The minimum and maximum number of credit hours
allowed per semester is as follows:

| Semester | Academic Standing | Level | Type of | Aca | (per credit hour) |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | Min | Max |
| Fall and Spring | Good Standing | Undergraduates | Full Time | 12 | 18 |
|  | (2.00 and above) | Foundation | Full Time | 0 | 15 |
|  |  | Undergraduates | Part Time | 1 | 11 |
|  | Academic probation | Undergraduates | Full Time | 9 | 12 |
|  | (less than 2.00) | Foundation | Full Time | 0 | 12 |
|  |  | Undergraduates | Part Time | 1 | 9 |
| Summer | Good Standing | Undergraduates | Full Time |  |  |
|  | (2.00 and above) | Undergraduates | Part Time | 0 | 12 |
|  |  | Foundation | Full Time |  |  |
|  | Academic probation | Undergraduates | Full Time |  |  |
|  | (less than 2.00) | Undergraduates | Part Time | 0 | 6 |
|  |  | Foundation | Full Time |  |  |

New students at the University will be allowed to regiser for the maximum number of credit hours allowed by heir program. Students who achieve a cumulative 3.50 increase the load by $1-3$ credit hours. A student expected 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 desnated period for drop/add. This period is determined by and updated on the university website A course that is ropped before the drop deadline will not appear on the student's transcript.

## Prerequisites:

When a student attempts to register for a course, the regisration system will check the request against the student's academic record. If he student has not satisfied the pree course Students should contact their program director egarding prerequisite discrepancies.

## Registration Holds:

Students with registration holds will not be allowed to students with registration holds will not be allowed to
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 erm, 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 cademic calendar for specific dates. If a student with grade of "W" is entered on the student's transcript.

## Withdrawal from the Semester

Withdrawal from a semester (from all courses) requires he approval of the student's academic advisor and the Department Head. 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. Enroiment and earned grades will be maintained in the student's record given that the student has completed at least one semester. The maximum period for which a student can leave the University must not exceed four semesters.

## RETURNING HIGH SCHOOL CERTIFICATES

At the request of the student, the Registration Department
At the request of the studen, the Registration Department 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 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. ( $10 \%$ for students enrolled in the Medical Doctor program in the College of Medicine) during a semester. Those exceeding 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 attend-
ing a class, provided that the number of such occasion does not exceed the limit allowed by the University. The instructor will determine the validity of an excuse for being 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.
irrespective of the period allotted to dropt day of class, 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 fo not meeting the attendance requirement.
If more than $25 \%$ of the classes for a course are ppropriately, 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 no 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 nd weaknesses.
Grading is a cumulative notion that is based on the student's performance during the semester. The student's assessment tools. These may include, but are not limited to, exams, projects, presentations, reports, quizzes, eading assignments, research papers, writing essays, classroom feedback and discussions etc. In all cases, every student has the right to see, review and discuss with he instructor all marked materials used in grading them.

## Grading Policy

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

## Letter Grades and their Corresponding Grade Points

| 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 |  |  |
| 1 | Incomplete |  |  |
| TC | Transfer Credit |  |  |
| W | Withdrawal |  |  |
| WF | Forced Withdrawal |  |  |
| Au | Audit |  |  |
| FA | The student could not attend the final exam and could not provide an acceptable excuse for his absence. |  |  |
| FB | The student exceeded the allowed absence limit (25\%) |  |  |

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

## Example:

Student's number of courses registered in the current semester 4
student's total number of completed credit hours 34
Total of earned grade points 95.5
NB: The first two decimal digits that come after a proper (unbroken) number do count, while the rest do not (withou rounding)

Student's current registered courses are as follows

| Subject | Credit hours |
| :--- | :--- |
| 1 | 3 |
| 2 | 2 |
| 3 | 3 |
| 4 | 1 |
| Total credit hours for <br> current semester | 9 |

Student's GPA calculations:

| Subject | Grade <br> Points | Credit <br> hours | Total Points Gained |
| :--- | :--- | :--- | :--- |
| 1 | 4.0 | 3 | $4.0 \times 3=12$ |
| 2 | 2.5 | 2 | $2.5 \times 2=5$ |
| 3 | 1.0 | 3 | $1.0 \times 3=3$ |
| 4 | 0.0 | 1 | $0.0 \times 1=0$ |
|  |  | 9 | 20 |

* Total points gained $=$ total credit hours $\times$ Grade points of each grade attained by student in the same course.


## Grade Reports and Transcripts

 he QU transcript is a student's official record of academic acfiermation pertaining to his or her course grades, cademic level, scholarship, and degrees received summary of the student's academic history. At the end of each semester, every student is issued a grade repor summarizing the course grades they have completed in hat semester. Students may obtain an official copy of thei QU transcript from the Registration Department.
## Major

major is a curriculum component of an academic program intended to provide in-depth study in a discipline or a professional field of study. The major defines he student's primary area of study and requires the completion of

## Declaring a Major

1. Students are admitted into their college's general 1. Surdents are admitted into their college's general 2. Students may seek to declare their major, after meeting the minimum academic requirements. Admission to the major is extremely competitive; and satisfying the minimum requirements does not guarantee admission into
2. Majors are open to QU students, provided that a) They meet the admission requirements for the major. b) They meet the high school subject requirements. applicable. applicable.
d) The department offering the major approves the major位位tion on the basis of department capacity.
3. Students may declare and pursue only one major. completing 36 undergraduate credit hours.
completing 36 undergraduate credit hours.
6t least half of the credit hours required to complete the major must be taken in residence at QU
. A student must comple the graduation requirement or a Bachelor degree at Qatar University in order to The only recognition delivered by the uni
major completed by a student consists of the appearance of the major on the student's official transcript at the time graduation and the student's graduation statement.

## Change of Major

A student may change their major within the first 60 undergraduate credit hours. Additionally, students who have earned a minimum cumulative GPA of 2.50 and change of major even if they did not satisfy the admission requirements for that major at the time of initial admission to QU.

In all cases, the sought College or Department approves he 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. ts 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. . The department offering the minor approves the studen enroliment in the minor based on the department capacity, 2. Stuc
2. Students may declare one or multiple minors 4. Students may not declare a minor in the same field as he declared major.
.Aneast half of the credit hours required to complete the . A student must cen in residence at QU. or a Bachelor degree at Que graduation requirements receive recognition for the completed mino
3. The only recognition delivered by the university for a minor completed by a student consists on the appearance of the minor on the student official transcript at the time of graduation and the student graduation statement.

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

## Double Use of Courses

Double use of courses to satisfy more than one
equirement in a student's degree program is not allowed A course successfully completed by a student and listed in e requirement of the student's degree program as part fhe 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).
n replacement of courses listed in the requirements for students must complete addditional 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 whe tudents 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 hou equirements for the minor. Subject to approval by the program offering the minor, these additional courses may

## Graduation Requirements

Every major has a study plan consisting of courses elected from the core curriculum, college requiremen academic degree is awarded to a student who comple 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:

| College | Major | Total number of credit hours |
| :---: | :---: | :---: |
| Arts and Sciences | Arabic language | 120 |
|  | Biological sciences | 120 |
|  | Chemistry | 120 |
|  | English language | 120 |
|  | Environmental Sciences with Concentration Area in: <br> - Marine Sciences <br> - Biotechnology | $\begin{aligned} & 125 \\ & 126 \end{aligned}$ |
|  | History | 120 |
|  | International Affairs | 120 |
|  | Mass communication | 126 |
|  | Social Work | 120 |
|  | Sociology | 120 |
|  | Sport sciences | 120 |
|  | Statistics | 120 |
|  | Policy, Planning and Development | 120 |
|  | Psychology | 120 |
| Business and Economics | Accounting | 125 |
|  | Finance | 125 |
|  | Management | 125 |
|  | Marketing | 125 |
| Education | Primary Education | 120 |
|  | Secondary Education | 120 |


| Engineering | Architecture | 160 |
| :--- | :--- | :--- |
|  | Civil Engineering | 131 |
|  | Chemical Engineering | 131 |
|  | Computer Science | 120 |
|  | Computer Engineering | 128 |
|  | Electrical Engineering | 131 |
|  | Industrial and Systems Engineering | 128 |
|  | Mechanical Engineering | 131 |
| Law | Law | 123 |
|  | Dawa | 120 |
|  | Islamic studies | 120 |
| Pharmacy | Pharmacy | 173 |
| Medicine | Medical Doctor (MD) | $40+300$ ECTS* |
| Health Science | Biomedical | 135 |
|  | Human Nutrition | 132 |
|  | Public Health | 120 |

*ECTS: European Credit Transfer and accumulation System

## Incomplete Grades

An incomplete (I) grade may be received in a course if the student attends but fails to complete all the course requirements. The Incomplete grade is not an alternative for an " $F$ " when the student performs poorly. To be considered for an Incomplete grade, the student must provide an acceptable justification for failing to complete the required work to the course instructor, which the Department Head must also approve. If the justification a medical report that is certified by the Public Health Authority or Hamad Medical Corporation and submitted to the Instructor. If the student could not attend the final exam and could not provide an acceptable excuse for his absence, a grade "FA" will be graded by the instructor.
Any person presenting the medical report on behalf of a student must produce their ID and that of the student. If an incomplete grade is given because the student did not take the final exam, the student should arrange with the instructor to take the exam. The deadline for changing an (I) grade is the last day of the second week of classes in the ensuing semester. Upon successful completion of the required work, the course instructor will replace the (I) grade with a letter grade (A through F) and submit it to the Registration Department.

If a grade of "l" 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 Registratio incomplete grades to change them before the deadline.

## Grade Appeal and Changing a Grade

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

The Department Head will review the merits of the complaint and rule on it. The Department Head may consult with the relevant faculty in the Department before ruling on the claim. Should the course instructor also be the Department Head, the student should submit a written complaint directly to the Associate Dean of the College. instructor or the Department Head, a written appeal may
be submitted to the Associate Dean of the College who wil hen make the final decision on the appeal.
cases where the student feels that proper procedures in writing to the Vice President for Student Affairs. It should be noted here that the Vice President for Student Affairs will only assess whether proper procedures were followed and will not make a decision regarding the grade change. Once the request is evaluated by the Committee, the tudent will be notified of the decision by email

## Academic Probation

While every effort is made by Qatar University to provide timely and accurate information to students about their academic standing, it is the sole responsibility of students to be aware of their academic standing at all times.
Undergraduate students are placed under academic probation based on their cumulative GPA and the total number of GPA hours as detailed below

- 0-24 GPAH - No academic probation is to be applied andemic probation if cumulative GPA is below 2.00

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

Once placed on academic probation, students have two (2) consecutive 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, exclud
summer term, are placed under Final Probation.

Once placed under Final probation at the end of a semester, undergraduate students who fail to satisfy the the end of the following semester of enrollment excluding the summer term, are academically dismissed from the University.

Students under Final Probation may not withdraw from a semester, request a leave of absence, or leave the University for the remainder of the semester unless they Undergraduate students placed under Probation or Fina 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 aliing a course twice. These students must meet with their 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 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: Faling to achieve a minimum GPA of
Failing to esters since admission years from enrol graduation requirements within eight Foundation Program) additional time as indicated in the appeal or the reinstatement decision - Academic Dismis

## Appealing Academic Dismissa

Any Qatar University student who is dismissed from the istitution for academic deficiency may appeal the decision 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 successfu
The following criteria will be applied by the Academic Dismissal, Appeal and Reinstatement Commit Appendix A) when evaluating the appeal
rerienced the death of immissal, the student in extended hospitalization 2. The student has a minimum cumulative GPA of 1.90; or 3. The student requires a maximum of 15 credit hours to satisfy graduation requirements and can achieve a 2.00 cumulative GPA by earning a maximum of 15 credit hour with an A average.
. she may apply for Reinstatement.

## Reinstatement

Any Qatar University student who is dismissed for the first time from the institution for academic deficiency may maximum of two (2) years since the official notification of academic dismissal.

Applicants may seek reinstatement after completing a minimum suspension period of 1 regular semester excluding summer. The application for reinstatement should be submitted to the Director of the Registration

The following applies to all applicants seeking

- All reinstatement applicants must satisfy all application deadlines.
- Reinstated students may return to the college in which they were declared at the time of academic dismissal or may be transferred to a different college as part of their reinstatement.
- Reinstated students are required to participate in the Successful Transitions Program
Students will only be reinstated once. If a student is academically dismissed for a second time, the student is eigible 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 B. C. Reinstated students may as Good Standing transfer credit according to QU's transfer credit rules.


## Repeating a Course

A student may repeat any course taken at Qatar University in which a final grade of "D+" or below was earned. Th following applies to all students repeating a course: 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 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 the
attempt(s) excluded from the cumulative GPA calculation, while a notation of "R" denotes the attempt included in the Th APA is lation
the the 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, provided that the student receives prior permission from the instructor of the course, and registers as an audit student. Permission to audit a course is contingent upon the availability of space and class size. Priority is given to audits a course, however, is charged the standard tuition, fees, and registration costs. An audit student is expected to attend class regularly, but is not obliged to take exams and so does not receive the normal grade (A-F); rather upon completion of the course, a grade of "AU" is recorded in the student's transcript to denote that the course was taken on an audit basis. Should a student wish to take the course for creadt, he/she must get the staus changed at the commencement of classes. A student can audit a given course only once.

## nternships

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 nvironment such as a company, business, laboratory determines the number of credit hours awarded to internships. Upon completing the requirements of an internship, the student receives a grade. To apply for an internship, the student must have the support of the academic advisor, 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 required by the position in which they wish to intern. At the time of application, the student must have a fulltime status and be in good academic standing at the University. Maintaining an internship requires satisfactory ob performance and a minimum cumulative GPA of 2.0. It a meat io texp is eligible to reaply one year from the date of termination

## Study Awa

Students wishing to participate in Study Away should obtain pre-approval from the QU Registration Department.

Courses not receiving Study Away pre-approval will be nsidered for possible transfer credit by the relevant QU cademic dopatment upon return to $Q u$.

To be eligible for transfer credit consideration, Study Away applicants must have earned a minimum of 24 undergraduate credit hours with a cumulative GPA of at least 2.00 by the time they participate in the Study Away All QU Transfer Credit and Course Repetition policies apply to Study Away. 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 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 sylabi from the colleges and universities attended. The content of the transferred courses must match $90 \%$ of the course content of their counterparts at QU. Only courses with a grade of " C " or above are transferable
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, Credit hours transferred will be used to satisfy graduation requirements provided they do not exceed $50 \%$ of the required credit hours needed for graduation from QU $50 \%$ of the courses required for a degree at QU at othe institutions, he/she will have to determine the course(s) to be transferred to their record at QU given that they fall within their study plan at QU.
First Year admits are not eligible to receive transfer credit consideration for coursework completed prior to thei semester of admission to QU.

## Transfer Students

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

## Readmission

Applicants seeking readmission may request to eliminate he effect of up to four courses from their cumulative records and cumulative GPA, provided that a grade
of F, D, or D+ was earned. Applicants may instead choose to remove all courses completed in one specific semester. 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 such measure one time. Courses approved or elimination shall not be used towards satisfying the program degree requirements, including the program successfully completes these courses after readmission The cumulative records include the cumulative GPA of readmitted students who were not academically dismissed rom 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 eadmission to the university, except for courses approved or elimination from the stucents cumulative recor Courses completed more than ten (10) academic yea 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 automatically counted towards he student degree program or in the cumulative records he student, incluaing the cumulative GPA. Such courses arder to be counted towards the dearee and to affect the cumulative records of the student, including the student's cumulative GPA.
Applicants seeking readmission may request to return with a fresh record where courses and grades earned prior to he student's readmission remain on record and on the student QU transcript, but are not counted towards degree requirements and are not considered in the cumulative cumulative grade point average (GPA).
Applicants seeking readmission may request a transfer of credit for courses completed at QU or other institutions within five (5) years of the student's semester of readmission, and a minimum grade of "C" or its equivalent, subject to approval by the College, and provided that the otal transferred credit does not exceed $50 \%$ of the credit requirements of the degree program.

## 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

Maintain a minimum semester course load of 12 credit 3. Earn a minimum final grade of " C " for all courses taken in the semester, with the exception of courses taken on Pass/Fail basis.
4. Not placed on academic probation during the academic semester of award.
5. Not subjected to any disciplinary action by the University . N two semesters prior to the 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, volunteerism, athletics and career services. Five categories of awards will be presented to both male and female students: (1) Student Leadership Award, (2) Award, (4) Student Employment Award and (5) Student Athletic Award.
Nominations for the Student Life Awards can be made by individual faculty members, staff, other students, or the student (oneself), providing that the eligibility criteria stated for each award is met by the student. Should a student wish to make a nomination for any of these awards, he/sh must submit his/her Curriculum Vitae (CV).

General Conditions
. The nominee must be active either in Fall or Spring emester during the academic year of application.
2. The nominee should have a minimum cumulative GPA of 2.50/4.00 for the previous two semesters prior to nomination.
. The nominee shouldn't have been subject to disciplinary action (dismissal or wan
4. A student who has previously won an award is no 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 This award is presented to a male and a female student
who demonstrated distinguished leadership attributes and behaviors in student campus life.
Award Conditions: To be eligible for this award, the student must have completed 60 credit hours.
Evaluation Criteria: The evaluation committee will implement the following criteria during the assessment of
submitted nomination
Served in a leadership position.
Demonstrated con lo boost student engagemen
nd participation in ca life and events.
Demonstrated clear capabilitient to as a student leader.
ddress conflicts and challenges in solve problems,
creative manner.
Student Clubs and Organizations Award
his award is presented to a male and a female studen ho are members of a student organization(s) appr lubs, Student Representative Board, or any other student organizations) who had clear contributions to the achievement of the organizations' goals, and create opportunities that support the continuity of the organization(s).
Award Conditions: To be eligible for this award, the student must have
Been registered in a student organization at Qatar niversity at the time of application.
Evaluation Criteria: The evaluation Committee will
implement the following criteria during its assessment of submitted nominations:
Demonstrated a clear role in the achievement of the
student organization goals.
Demonstrated a clear role in supporting the continuity of
Contributed to the crea
stud
the student organization.

## Volunteering Award

This award is presented to a male and a female student who have contributed effectively to the university volunteering activities
ward Conditions: To be eligible for this award, the Student must have
Been registered in the QU Center for Volunteerism and

- Participated in volunteer work for at least 50 hours
through the Center for Volunteerism and Community Service.
Completed a minimum of 30 credit hours.
Evaluation Criteria: The evaluation Committee will mplement the following criteria in its assessment o submitted nominations:
Contributed in fostering the culture of volunteer work.
The inted to the spirit and ethics of volunteering. character and refining their skills.

Student Employment Award

This award is presented to a male and a female studen who participated in the Student Employment Program a he University.
ward Conditions: To be eligible for this award, the
must have:
Complete 500 working hours within the Studen mployment Program.

## supervisor

Evaluation Criteria: The evaluation Committee will implement the following criteria in its assessment o .
Submita and implemented a new idea which positively Customer servict and work performance level.
Quality of work

## Student Athletic Award

This award is presented to a male and a female student who have contributed effectively to the university sport ctivities
Award Conditions: To be eligible for this award, the student must have:
Been practicing in one or more university sport activity. Completed a minimum of 30 credit hours.
valuation Criteria: The evaluation committee will adopt the following criteria in its evaluation of submitted ominations:
Fostered the importance of campus sports activities. Made re

- Demonstrated commitment to sport ethics in university raining and participation (internally and externally).


## 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 mee encouraged to take the lead in developing an associa 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 engad in their educational expedition, thereby making it a richer experience.


## CHAPTER 9

## RS PROGRAM

102, 103, 104 Men's Engineering Building (Corridor F one B)
/49 (+974) 4403-4990 / 4992/4993/4994/4995/4996 nail: quhonors@qu.edu.qa
he Honors program is a community of exceptional, motivated, and innovative minds. It serves as a vehicle to enhance the intellectual quality and inspire the academic culture of the University. The program encompasses all undergraduate colleges and programs in the university.

## HONORS BENEFITS

- 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
Participation and intensive faculty guidance.
A scholarship, if the student persists in good standing
as a member of the college-wide Honors Program and maintains a GPA of 3.5 .
- Opportunities for outstanding Honors students for Conference Attendance Support.
- Annual Honors Program Awards for the best academic performance and best services award
- Possibility of attendance at conferences and events
ponsored by industry sponsors.
or senior projects and capstone
- Waived membership fees for QU clubs, or $25 \%$ reduction
in other selected clubs
- Honors students will have priority scholarship
consideration for Master and PhD studies at QU and GTAs.
- Priority for students in the IAESTE exchange program.
- Priority for internship and summer training.

HONORS ADMISSION REQUIREMENTS
For newly admitted undergraduate students:

- Minimum of $90 \%$ or higher score on high school
certificate or an equivalent certificate
Successfully pass an intervie
-Written essay exam

Regular undergraduate students can apply to enroll in the Honors Program if they satisfy the following requirements: - Complete or about to complete a minimum of 12 to 18 - Have no record of academic probation, disciplinary misconduct, or violation.

- Recommendation letters from current or previous instructors, counselors, or academic advisors. Submit a written essay Successfully pass an interview.


## Continuation in the progran

All undergraduate students admitted to the Honors rogram have to satisfy the following requirement in order A minimum cumulative Qatar University GPA of 3.30 - Progress towards completion of his/her degree requirements.
Never going more than two consecutive semester without an Honors course
obation, or record of any

## Graduation from the program

Regular undergraduate students must complete the following requirements in order to graduate from the Honors Program:
Earn a minimum cumulative Qatar University undergraduate GPA of 3.50 at graduation. credit hours of Honors Program courses.
ete all Honors Program courses with a minimum 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, completion (for students who have successfully completed all required courses in the honors study plan, course listing and grades will be identical to what is officially stated on the students' official academic records.)

Dismissal and withdrawal from the Honors Program An Honors student will be dismissed from the Honors Program when:
A studeps below 3.3
. A student is found by the university to have committed r participated in an incident of academic dishonesty or any other violation.
. Failure to successfully complete an Honors course in wo consecutive semesters.
Students wishing to withdraw from the program should
fill in the required "withdrawal form" and submit it to the Honors office for evaluation

## Reinstatement to the Honors Program

Any student dismissed or who has withdrawn from the Honors Program may apply for reinstatement to the 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 re-instatancest 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 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 350 . order to retain the privileges of membership in the Honors Program, students must maintain this minimum progress.

## HONORS CURRICULUM

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

TYPICAL HONORS SEQUENCE (FALL 2013)*

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

* Honors students who joined the program before 2013 can either stay on their old Honors sequence or follow the new sequence listed above.
*Please note that the 24 credit hours to complete the Honors Program are included in the overall hours required to earn an undergraduate degree at Qatar University.


## honors student association

Honors students have several opportunities to engag academic and recreational activities through their association is a student-elected body with the following unctions: 1. Represent the interests off campus.
the Honors program on and off campus. 2. Plan and implement special events, including aca
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 s well as in broader areas. Honors advising is similar to mentoring and it does not end with advising on Honors Program curriculum issues. The Honors Advising Office will report directly to the Honors Program Director and work very closely with the university advising center.

## CONTACT INFORMATION

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

## CHAPTER 10

FOUNDATION PROGRAM
Foundation Building (D05 Women's Section; A06 Men's Section)
Phone (Men): +974 4403-532
hone (women): +0974 4403532
Website: http://www.qu.edu.qa/foundation/
Acting Director
Dr. Maha Al-Hendawi
hone: +974 44035300
Fax: + 97444035301
mail: 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 rough study skils and critical thinking, studens with appropriate use of information technology.

## OVERVIEW

The Foundation Program is composed of two academic departments, one academic support unit, and a testing 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, ooth 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 bjective 1.Attain Eng ilsh oral and writen language the University
Objective 2: Demonstrate competency in mathematics knowledge and skills to the academic standards required to pursue studies at the University.
Objective 3: Develop critical thinking skills to be involved uccessfully in academic tasks.
Objective 4: Develop a learning-centered education and socially motivating environment.

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 LO 6: Apply requisite study skills
LLO 7: Demonstrate critical thinking skills

## FOUNDATION PROGRAM STUDENT AFFAIRS

 SECTIONThe Foundation Program provides a variety of academic The Foundation Program provides a variety of academic
support services and extracurricular activities to enhance support services and extracurricular activities to enhance students 'English proficiency and mat

- 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. he Foundation Program liaises with relevant QU offices, Affairs, Center for Academic Advising, Special Need Office, and the Student Learning Support Center (SLSC)

FOUNDATION PROGRAM DEPARTMENT OF ENGLISH
Phone: + 97444035330
Email: fpdeque 5330

Soundation
The Foundation Program Department of English is committed to developing students' English language proficiency to a level that will allow them to succeed in he academic programs of Qatar University. Through hovalive, resear to beducts chacipes, eadiness 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, integrated with activities to aid language skills developmen 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 monstrate adequate attainment of the following Leat utcomes

1. Interpret academic texts
2. Express ideas and facts effectively in writing
3. Use verbal skills to communicate effectively
. Interpret aural information
Demonstrate proficiency required to interpret and use anguage
Apply independent learning skills
Use appropriate ICT tools for learning and communicating
. Demonstrate collaboration skills
Length \& Structure of the Foundation English Courses

The Foundation English courses consist of three-course packages, each of which is offered at the elementa Endish Integrated Core, English Reading Workshop, and English Writing Workshop Students may be place 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 evel of each course with at least a 70\% score (C grade), students will complete the Foundation English requirements. Students are expected to complete the

## Placement:

Placement tests are conducted at Qatar University Testing Centre, see below for further details,

Course Completion or Exemption by Examination Students complete the Foundation English requirements when they have passed the intermediate level courses,
However, they can also be exempted from Foundation However, they can also be exempted from Foundation required score on the TOEFL paper-based test, the TOEFL BT, 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.

CORE CURRICULUM COURSES: POST-FOUNDATION ENGLISH COURSES

Length \& Structure of Post-Foundation Courses After completing or being exempted from the Foundation English requirements, students studying majors taught in English take the two required courses: English Language (ENGL 202) and English Language II (ENGL 203). Both are three credit-hour courses aimed at promoting advacmic with alical thinking In English academic writing and critical thinking. In English Languag undamental essay writing genres. The course also develops students' academic vocabulary, critical reading and reflection skills. Finally, students are introduced to online learning platforms as well as paraphrasing skills for academic writing. English Language II introduces students summary and responce paper writing. it also fosters the kils necessary for students to develop a research topic, students are taught how to conduct independent library searches both physically and online, paraphrase and incorporate referenced source information into their writing and write a referenced academic term paper. After the completion of both courses, students will have the skill
and abiilities to successfully complete the academic writing
requirements demanded by their major courses at QU.

## ORE CURRICULUM COURSES: ENGLISH FOR

 COMMUNICATION COURSESThere are six university required English courses taught by the Foundation Program Department of English for students who study in Arabic in the Colleges of Arts and ciences, Business \& Economics, Law, Education, and haria and Islamic Studies. Students will complete up to study plan, and they are as follow:

- English 1 (ENGL 110

English 2 (ENGL 111
English for Communication 1 (ENGL 250)
English for Communication 2 (ENGL 251)
English for Business Communication (ENGL 252)
English Communication for Law (ENGL 253)

## Length \& Structure of English for Communication

## Courses

All courses bear three credit hours and are delivered over five hours per week. This is to ensure active use of English with pair, group and project work. All courses integrate the four skills of speaking, listening, reading and writing. ENG 10 and ENGL 111 provide practice in developing all four kills at the basic to lower-intermediate level. ENGL 250 builds upon these courses with a greater emphasis on aading and writing. ENGL 251, ENGL 252 and ENGL 253 also focus on reading and writing at a more advanced leval hese three courses, with a Law major taking ENGL 253, Business Major taking ENGL 252 and other majors taking NGL 251. After completing all four necessary courses, tudents should have a comfortable level of competency in nglish, whereby they can cope flexibly with English in the niversity the workplace and society

## DEPARTMENT OF MATHEMATICS

Phone: + 97444035500
Email: fmcqu@qu.edu.qa
Department of Mathematics Mission Statement The Foundation Program Department of Mathematics bin) provi which previve students to be successiul 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 nvironment, faculty members assist students to achieve proficiency in logical thinking, problem solving and othe

## asic mathematical skilis needed to be successful achieving their academic goals.

## Learning Outcomes

FPDM's main purpose is to equip students by focusing on developing their mathematical skills, in preparation for heir subsequent entry into academic programs at Qatar University. Upon succe
Apply algebraic skills to solve mathematical problems Interpret quantitative and graphic information;
Apply required study skills
Demonstrate critical thinking skills.

## Placement:

lacement tests are conducted at the Qatar University Testing Center, see below for further details.

## ength and Structure of the Elementary Algebra

 Coursehis course is designed for students who require a review f elementary algebra before taking further university 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 (precalculus) course. Since it is a non-credit course, it will no be counted towards students undergraduate degree. It is in the lab).

## Completion

 Students complete the Fou least 70\% (C) in the Elementa Algebra courseLength and Structure of the Pre-Calculus Cours Pre-calculus is a university requirement course delivered This course prepares students for Calculus. It covers polynomials and rational inequalities, graphs and unctions, exponential and logarithmic functions. It also helps students to find values of basic trigonometric functions of any angle, use algebra to simplify rigonometric expressions, establish identities, and troduce trigonometric identities. It is a four hour per wee

## Completion

tudents advance to the Calculus I course by achieving a score of at least 60\% (D grade) in the Pre-Calculus course

## QATAR UNIVERSITY TESTING CENTER (QUTC)

Phone: + 97444035522
Email: qutcsupport@qu.edu.qa
Location: H-12 (College of Medicine Building)
For Registration: (Women) Room 154/ (Men) Room 150

## QUTC VISION

Qatar University Testing Center aspires to become a nationally and regionally recognized center for providing quality testing services, and meeting the testing needs Qatar University students and the wider community.

## QUTC MISSION STATEMENT

Qatar University Testing Center supports Qatar University students and the wider community in assessing their knowledge, skills, and abilities as they relate to higher education, by providing a variety of local and international testing opportunities that are valid, reliable and fair. The Center is committed to maintaining professional testing standards and developing tests that cater to the needs of all stakeholders.

## QUTC SERVICES

The tests currently administered at the Center are the ACT International \& Residual, TOEFL-iBT, IELTS ACCUPLACER ESL \& Math, PCAT, GMAT, BULATS and IC3 GS4. In addition to providing testing service and publishing test results, QUTC offers guidance on testing procedures, the testing registration process, and for collecting, verifying and inputting the competency test scores (which are part of QU's admission requirements), into Banner, which is a student information system for higher education.
Registration - Please visit the Qatar University Testing Center to register for ACCUPLACER and IELTS, th enter also can provide more information on other standardized tests.

Schedule - For the most updated details, please check the QUTC website below.
http://www.qu.edu.qa/foundation/testing_center/tests_ schedule.php
Placement Details for Foundation English Students New students without exemption by examination must take he ACCUPLACER ESL test for placement in Found measures students' abilities in English reading, listening and understanding of grammar and vocabulary. Students are allowed to sit for the test once, unless otherwise
equired by the Department. Students are placed in the appropriate level of English Integrated Core, English Reading Workshop, and English Writing Workshop based on their ACCUPLACER ESL scores

| Placement Details for Foundation English Students |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| English Tests |  |  |  | Full <br> Exemption |
| IELTS |  |  |  | 5.5 or above |
| TOFEL | internet-Based (iBT) |  |  | 61 |
|  | paper-Based (pBT) |  |  | 500 |
|  | computer-Based (cBT) |  |  | 173 |
| ACCUPLACER | APIC Integrated Core | APRS Reading Workshop | APWS Writing Worksho | Aggregate Score <br> (APIC) <br> 400 with 100 in ESL Reading Skills and 100 in ESL Language in Use |
| Elementary | 0-268 | 0-62 | 0-146 |  |
| Intermediate | $\begin{gathered} 269- \\ 399 \end{gathered}$ | 63-99 | $\begin{gathered} 147- \\ 224 \end{gathered}$ |  |
| Exemption (from individual course) | 400 | 100 | 225 |  |

Placement and exemption requirements from Foundation Math courses are outlined below:

| Elementary <br> Algebra | Pre-Calculus <br> Course | Full Exemption |
| :--- | :--- | :--- |
| $*$ ACT score is <br> less than 21 | *ACT score is <br> greater than or <br> equal to 21 and <br> less than 24 | *ACT score is greater than or equal to 24 |
| **SAT score is | SAT score is <br> greater than 499 <br> and less than <br> 550 | SAT score is greater than or equal to 550 |
| less than 500 |  |  |
| *** APL Elementa- <br> ry Algebra score <br> is less than 82 | APL Elementary <br> Algebra score <br> greater than or <br> equal to 82 | APL Elementary Algebra score greater than or equal to 82 and APL College <br> Level Math score greater than or equal to 95 |

$*$ Math component only
${ }^{* *}$ General SAT Math
$* * *$ ACCUPLACER Math


## 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 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 in an increasingly globalized and linterconnected 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, fulfilling personal life.

MISSION
The mission of the Qatar University Core Curriculum Program is to prepare competent undergraduate students who are well-rounded, multi-skillful and effective global citizens. Through a motivating and research-based learning environment, the program seeks to create 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 repares them to accept others.
Recognize the nature of Qatari society historically, eographically and socially, to reinforce allegiance to the ountry.
. Demonstrate proficiency in written and oral Arabic. 4. Communicate competently with others using oral and written English skills.
2. Think critically and creatively in a variety of methods in . Think critically and creatively in a variety of
order to make decisions and solve problems.
. Demonstrate competency in the use of research skills and various information sources. humanities and natural sciences in a manner that reveals their value in life.

## Structure

Coursework in the Core Curriculum is intended to impart he skills, foundational knowledge, and dispositions described in the Core Curriculum's Objectives and Learning Outcomes. The Core Curriculum Program disciplines. The courses are organized and distrributed 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, objective and learning outcomes of the Core Curriculum Program. It might include courses pertaining to natural sciences, mathematics, social/behavioral sciences, and humanities ine arts. Courses in such a package can be counted ocusing 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 arferent disciplines incluaing social 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 equirements must be met by every student pursuing a 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 33 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 in the degree requirements of each program and consist 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 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 A minimum of 3 credit hours from courses listed in
the CCP defined Social/Behavioral Sciences package including: - ECON 112 Principles of Macroeconomics

- EDUC 203 Family Relationships
- EDUC 320 Human Development
- HONS 102 Honors Freshman for Social Sciences - INTA 102 Introduction to Political Science INTA 206 Gomen in Isla
- MCOM 103 Media and Society
- EPSY 205 Social Psychology
- SOCI 120 Introduction to Sociology - SOCI 121 Introduction to Anthropology - SOCI 263 Badawi Society

SOCI 363 Ethnicity
SOCl 467 Globalizatio
Sowo introduction to Social Work and Welfare
PUBH 202 Healeth and Human Rights

- SOWO 311 Social and Cultural Diversity
- PSYC 206 Introduction to Social Psychology


## Natural Science/Mathematics package (3 CH)

 A minimum of 3 credit hours from courses listed in the CCP defined Natural Science/Mathematics package ncludingBIOL 101 Biology I
CHEM 101 General Chem
GEOL 101 Principles of Geology

- MATH 101 Calculus I

MATH 103 Intermediate Algebra MATH 104 Basic Geometry and Measures PHYS 183 Introduction to General Physics

Humanities/Fine Arts package ( $3-6 \mathrm{CH}$ ) The number of credit hours required for this package ranges from 3 to 6 , depending on the program. All programs require completion of 3 Credit Hours from courses listed in the Qatar and Gulf History sub-package. When applicable, the remaining 3 credit hours can be taken from courses listed in the CCP defined Humanities ine Arts package including:
ARAB 221 Classical Arabic Poetry
ARAB 326 Literary Analysis
DAWA 117 Ethics
DAWA 202 Introduction to General Philoso
DAWA 305 Modern Philosophy
ENGL 155 Introduction to Language
ENGL 156 Introduction to Literature I
ENGL 234 Language and Gender
ENGL 213 Language and Culture
ENGL 233 Language and Computers GEOG 110 General Geography GEOG 441 Geography of Qatar - HIST 103 An introduction to History

HIST 217 Islamic Civilization
HIST 334 Arabian Gulf in Antiquity
HIST 416 History of Islamic Arts and Architecture ISLA 205 intectual PHLL 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 121 History of Qatar

- HIST 421 The Gulf in Modern Period
-HIST 323 Gulf-South Asian Relations in Modern and Contemporary History


## General Knowledge package ( $0-3 \mathrm{CH}$ )

The number of credit hours required for this package rang from 0 to 3 , depending on the program. When applicable, CCP defined General Skills package, including:

- ARAB 224 Classical Arabic Prose
- ARAB 261 Rethorics
- ARAB 262 Prosody and Metrics
- ARAB 271 Persian Language I
- DAWA 113 Philosophy of Sirah
- DAWA 203 Principles and Methodology of Dawa

DAWA 206 International Organizations \& Human Rights
EDUC 310 Foundation of Education in Qatar
and School Reform

- INTA 308 International Political Economy

INTA 405 Gender in the International Perspective
NTA 415 History of the Middle East in 20th Century

- ISLA 101 Studies in Islamic Creed
- ISLA 102 Quranic Sciences
- ISLA 201 Principles of Islamic Jurisprudence - ISLA 209 Islamic Studies in Contemporary Thought LAWC 102 Human Rights
- LAWC 339 Public International Law
- SOCI 200 Sustainable Development
- SPSC 101 Traditional and New Games
- SPSC 201 Theory and Practice "Teams Sports"
- EPSY 201 Introduction to Psychology


## General Skills package (0-3 CH

The number of credit hours required for this package ranges from 0 to 3 , depending on the program. When applicable, the 3 credit hours can be taken from courses listed in the CCP defined General Skills package, including:

- ACCT 110 Financial Accounting
- DAWA 114 Modern Techniques of Dawa
- DAWA 204 Research Methodology

DAWA 205 Schools of Islamic Thought
DAWA 302 World Religion: Comparative Studie

- EDUC 201 Research Methods
- ENGL 150 Essay Writing I
- ENGL 151 Advanced Reading Comprehensions - FREN 101 French 1
- HONS 100 Honors Freshman Seminar
- INTA 100 First Year Semina

INTA 101 Political and Social Thoughts
INTA 200 Study and Practice of Diol Relation

- INTA 301 Islamic Political Thought

ISLA 202 Logic and Research Methodology
LAWC 101 Introduction to Law
MAGT 101 Principles of Management

- STAT 101 Statistics I

Supplemental College/Program Package (0-12 CH) The number of credit hours required for this package ranges from to to 12 , depending on the program. When 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
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 Mohamed Ahmedna

Associate Dean for Academic Affairs Hassan Abdel-Aziz

Associate Dean for Outreach and Engagemen Khalifa Abdulla Alhazaa
Associate Dean for Planning and Quality Assurance Steven Wright

Assistant Dean for Student Affairs Yaser Hussein

## ABOUT THE COLLEGE

The College of Arts and Sciences (CAS) aspires to provid the foundation of liberal education, quality academic research, and educational programs to contribute to the and the changing societal needs of the 21 st 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 supporive leaming environment to at are committed to research and teaching excellence.

## DEGREE OFFERINGS

The College of Arts and Sciences offers the following ndergraduate degree programs:
Bachelor of Arts in Arabic Languag

Bachelor of Arts in English Literature and Linguistics Bachelor of Arts in History
Bachelor of Arts in International Affairs
Bachelor of Arts in Policy, Planning, and Developmen
Bachelor of Arts in Policy, Planning, and Developmen
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 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 Translation
Minor in French
Minor in Spanish
Minor in History
Minor in Philosophy
Minor in International Affairs
Minor in Policy Planning and Development Minor in Mass Commuication
Minor in Statistics
Minor in Psychology

## DEPARTMENT OF ARABIC LANGUAGE

Women's Main Building - Room 112
Phone: (974) 4403-4820/4823 Fax: (974) 4403482 mail: headdeparabic@qu.edu.qa
Website: http///www.qu edu qa/artssciences/arabic/

Acting Head
Maryam A. Rahman Al-Naemi

## Faculty

Professors
Sola Absidi Ahmad Yousef, Rachid Bouziane, Mubarak Hanoun

Associate Professors:
atima Al-Sowaidi, Lotti Al Yousifi, HabibBouherour, Abdoul
Salam Hamed, Mahmoud AlJasem, Maryam Al-Naemi,

Hafid I smaili, Imtenan Smadi, Haitham Sarhan, Loui Khalil, AbdelKader Faydoun, Mahrous Alsayed Yousse Mohammad, Abdulian Ali Abdullah Al-Hetari, Maryam

## Assistant Professors:

Haya Al-Durham, Idris Atih, Noora Faraj, Hanady Mansour, Mohammad Mostafah Saleem, Ahmad Teaema, Ahmad Haji Safar, Seeta Ali F N Al-Athba, Moneera Qannony, Emad Ali Abdellatif Ali, Amro Mohamed Madkour, Adel Fathy Riad Ahmed, Nassima Bousselah Mahmoud M. Naser Kaheel.

## Lecturers

Radwan Menisy Abdalla Gaballa, Yahya Mohammed Ali Al-Mahdi, Ibrahim Mohamed Ibrahim Amer, Youssry Sobhy Esawy, Ali Fathallah Ahmed Mohamed, Aysha Jabir A J A tenzab, Tamader Jabir A J AI-Henzab.

## ABOUT THE DEPARTMENT

The Department of Arabic Language (DAL) aspires to achieve a distinction in the study of Arabic Language and Literature so that it enables Qatar University to occupy a prominent place among departments of Arabic in the region and internationally, by virtue of its high-quality teaching, research, community, and university services It aims to implement advanced developments in the educational and pedagogical process which lead to achieving academic accreditation in the fields of education research, and acquisition of linguistic skills. It aims to of becoming the country's elite in the field of leadership and intellectual endeavor to serve their language, country and nation.
The Department aims to produce graduates with open minds to other cultures and civilizations, armed with strategies of dialogue and communication with man and technology. The mission of the Department of Arabic Language is to prepare specialists in linguistics and literary skills and qualified to implement their knowledge and experience in the field of research as well as in the practical field of work which requires the use of Arabic language, its literature and expressive techniques. Thus, the students will be able to assimilate the heritage of the nation and be at the same time opened to the approaches of others and their schools of thought. In addition, the identity and develops the students' skills in critical thinking self-learning, and teamwork.

BACHELOR OF ARTS IN ARABIC LANGUAGE

The objectives of the Arabic Language major are to Enhance the effectiveness of Arabic language teaching methods

- Develop students' linguistic, communication and creative skills. Develop critical and literary skills through both .llaborative and individual approaches. iterature, and Islamic heritage.
Develop cultural dialogue and open-mindedness with other peoples and their cultures.


## Learning Outcomes

Graduates of the Arabic Language major are expected to be able to:
Demonstrate high competence in the use of Arabic language in the fields of reading, writing, and scientific esearch.

- Employ Arabic language in expressing the needs of Arabic, and Islamic society.
Effectively use the resources of Arabic language, linguistics and
Distinguish the various periods of Arabic literature, literary shools and trends.
Know the historical, theoretical and material context of he interaction between Arabic culture and other cultures. - Distinguis

Apply all acquired skills in research, analysis, criticism and comparison.

## Opportunities

The Department's graduates will have the ability to fulfill the needs of the work market and the Qatari community, especially in pursuing the following work opportunities:
University teaching assistant
Teaching in the educational field.
Working as a newspaper journalist
Working a stations. Working to scrutinize the language and grammar in organizations.
Working in centers of literary creativity
Managing cultural activities in clubs or any field that equires 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.aal students/admission/undergraduates.php

## 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

- A minimum of 33 credit hours in major requirements. - A minimum of 24 credit hours in concentration


## equirements.

A minimum of 24 credit hours in minor requirements.

- A minimum of 6 credit hours of free electives.

Core Curriculum Requirements ( 33 CH )
Common package ( 15 CH )
ARAB 109 Language Skills
ARAB 110 Introduction to Literature and Language
ENGL 110 English I
DAWA 111 Islamic Culture

Social/Behavioral Sciences package (3 CH)
Courses in the CCP defined Socia/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 Requirements ( 33 CH )

ARAB 213 Grammar I
ARAB 218 Morphology
ARAB 221 Classical Arabic Poetry

- ARAB 261 Rhetoric

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 481 Modern Literary Criticis
ARAB 483 Comparative Literature

Concentration in Linguistics ( 24 CH ) 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 Core Requirements ( 15 CH ) Students must complete a minimum of 15 credit hours in Linguistics concentration core requirements from the courses listed below:
ARAB 273 Hebrew

- ARAB 375 Phonology

ARAB 392 Arabic Syntax
ARAB 419 Comparative Linguistics
ARAB 493 Capstone on Arabic Linguistics
Linguistics Concentration Electives I (6 CH)
ARAB 225 Qatari Folk Literature
ARAB 262 Prosody and Metrics

- ARAB 352 Philology
- ARAB 354 Semantics

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

## 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 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 326 Literary Analysis
ARAB 391 Literary Research Sources and Method - ARAB 492 Capstone on Arabic Literature

ARAB 271 Persige Requage
ARAB 372 Persian Language
Literature Language Requirements II sub-package ( 6 CH ) TURK 101 Turkish I

Literature Concentration Electives I (6 CH)
ARAB 223 Classical Arabic Poetry
ARAB 225 Qatari Folk Literature
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 327 Readings in Literary Traditio
ARAB 484 Sociology of Literature

- ARAB 491 Topics in Contemporary Arab Thought


## Minor Requirements (24 CH)

Students must complete a minor offered at the universit ther than the minor in Arabic Language. If the selected norduios less han 24 La 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

## MINOR IN ARABIC

The minor in Arabic provides students with a fair measure of expertise and knowledge in the Arabic Language and Literature via highly elected courses.

## Declaring the minor

Applicants for the minor in Arabic must satisfy QU
quirements for declaring a mino
Minor in Arabic ( 24 CH )
Students seeking a minor in Arabic 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 ARAB 213 Grammar

- ARAB 218 Morpholog

ARAB 221 Classical Arabic Poetry
ARAB 261 Rhetoric

## 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.

## Arabic Minor Electives I Package (6 CH)

Students must complete a minimum of 6 CH taken from he following Minor electives courses:
ARAB 262 Prosody and Metrics
ARAB 319 Grammar II
ARAB 351 Introduction to Linguistics
ARAB 352 Philology
ARAB 354 Semantics
Arabic Minor Electives II Package ( 6 CH )
Students must complete a minimum of 6 CH taken from he 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 483 Comparative Literature

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

| FIRST YEAR (30 credit hours) |  |  |  |
| :---: | :---: | :--- | :---: |
| Term | Course \# | Course Title | Credit <br> Hours |
|  | ENGL 110 | English I | 3 |
|  | DAWA 111 | Islamic Culture | 3 |
|  |  | Core Curriculum | 3 |
|  | ARAB 109 | Language Skills | 3 |
| Spring | ARAB221 | Classical Arabic Poetry I | 3 |
| Total Credit Hours in Semester |  |  |  |
|  | ENGL 111 | English II | 15 |
|  |  | Core Curiculum | 3 |
|  |  | Core Curriculum | 3 |
|  | ARAB 110 | Introduction to Literature <br> and Language | 3 |
|  |  | ARAB 213 | Grammar I |
| Total Credit Hours in Semester |  |  | $\mathbf{1 5}$ |



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/artssciences/english/ index.php
Head
Ali Idrissi

## Faculty

## Professors:

Haifa Al-Buainain
Associate Professors:

## Darwish Al-Emadi, Ali Idriss

## Assistant Professors:

Anastasia Remoundou-Howley, Eiman Mustafawi, Hisham Jawad, Irene Theodoropoulou, Julieta Alos, Kim Sturgess, Mark Scott,Michael Grosvald, Rizwan Ahmad, Stephen Markve, Tariq Khwaileh, Thomas Ross
Major, Yomna Ismail, Vladimir Kulikov.

## Lecturers:

Iglal Ahmed, John Herlihy, Sam Meekings
Teaching Assistants:
Afra Hassan Al-Kholifi, Afra Mubarak Al-Qahtani, Fatima Al-Abdulla, Noora Al-Kaabi, Zahia Al-Marri

## ABOUT THE DEPARTMENT

The Department of English Literature and Linguistics provides high-quality, student-centered education in positive learning and research environment. Student 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: $\stackrel{\text { Enab }}{ }$ skills.

- Develop students' appreciation for the diversities of
anguages and cultures
Familiarize students with linguistics, its sub-branches pplications and relations to other disciplines
- Introduce students to the various literary genres of - 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 learly in English.
Apply the skills of analyzing English language and cultur 1o students' own language and culture and those of others
Relate the phenomena of language and literature to thei ocial, cultural and psychological contexts.
Analyze critically literary genres within their historical,
social, and intellectual contexts.
Demonstrate theoretical knowledge and competence in he use of practical methods in literature and linguistics.

## Opportunities

Graduates with a major in English Literature and
Linguistics will be qualified to work as English teacher inguistics will be qualified to work as English teache
ranslators, 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 evelopment agencies, community services, social ghize as may

## Admissions Requirements

Applicants must satisfy QU defined College and Program requirements including the minimum high school percentage requirement and a minimum score of 500 on the TOEFL or 5.5 on the IELTS or 61 on the BT. In addition, applicants must score above the cut-off Department. Detailed Und available at the following link: http://www.qu.edu.qa/ students/admission/undergraduates.php

## 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 English

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

- A minimum of 33 credit hours in Core Curriculum requirements
A minimum of 27 credit hours in Major requirements.
- A minimum of 24 credit hours in Concentration
requirements and electives.
- A minimum of 24 credit hours in Minor requirements.
- A minimum of 12 credit hours in free electives.

Core Curriculum Requirements (33 CH)
Common package ( 15 CH )

- ARAB 100 Arabic Language I
- ENGL 150 Essay Writing
- ENGL 151 Advanced Reading Comprehension
- DAWA 111 Islamic Culture

Socia/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 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 fro 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 )

tudents must complete a minimum of 3 Credit Hours from the CCP-defined General Knowledge package

## General Skills package (3 CH )

rents 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
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 ( $\mathbf{2 4} \mathbf{C H}$ )

tudents must complete a minimum of 9
and a minimum of 15 CH concentration electives.

Linguistics Concentration Core Requirements (9 CH) students must complete a minimum of 9 credit hours in
concentration core requirements
ENGL 216 Phonetics \& Phonology
ENGL 301 Syntax
ENGL 303 Sociolinguistics
Linguistics Concentration Electives ( 15 CH )
Students must complete a minimum of 15 credit hours in oncentration electives from specific packages. Students must complete 3 CH in each of the Language Across
Disciplines, Language and Psychology, Language and Meaning, Research Techniques, and Linguistics Specia Topics packages.
Language Across Disciplines Package (3 CH)

- ENGL 209 Language and Society

ENGL 233 Language and Compute

- ENGL 234 Language and Gender

Language and Psychology Package (3 CH)
ENGL 305 First Language Acquisition
ENGL 307 Psycholinguistics
ENGL 309 Second Language Acquisition
anguage and Meaning Package (3 CH) ENGL319 Semantics
ENGL 327 Discourse Analysis
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 credit hours in oncentration core requirements,
ENGL 220 American Literature
iterature Concentration Electives ( 15 CH )
Students must complete a minimum of 15 credit hours in concentration electives from specific packages. Student ust complete a minimum of 3 CH in each of the Period Genre, and Literature Special Topics packages.

## Period package (3 $\mathbf{C H}$ )

ENGL 306 Medieval Literature
ENGL 308 Renaissance to Restoratio
ENGL 324 Victorian Literaturs
ENGL 393 Twentieth Century Literatur
Genre package (3 CH )
ENGL 326 Poetry

- ENGL 328 Drama

ENGL 330 The Short Story
Literature Special Topics package (3 $\mathbf{C H}$ )

- ENGL 400 Women's Literature

ENGL 400 Women's Liter
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

## MINOR IN ENGLISH

The Minor in English offers a variety of courses in writing, 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 500 on the TOEFL or 5.5 on the IELTS or 61
on the IBT. Acceptance also depends on capacity
Minor in English ( 24 CH )
Students seeking a minor in English must complete 24
redit hours, including the following:
9 credit hours in Minor electives

## Minor Requirements ( 15 CH )

Students must complete a minimum of 15 credit hours in
Minor-required courses:
ENGL 153 Essay Writing
ENGL 155 Introduction to Language

- ENGL 157 Introduction to Linguistics

ENGL 158 Introduction to Literature II

## Minor Electives (9 CH)

Students must complete a minimum of 9 credit hours in Minor electives courses
ENGL 209 Language and Society
ENGL 213 Language and Culture
ENGL 230 Professional Writing
ENGL 234 Language and Gender
ENGL 302 Comparative Literature

- ENGL 303 Sociolinguistics

ENGL 305 First Language Acquisition
ENGL 307 Psycholinguistics
ENGL 309 Second Language Acquisition
ENGL 328 Drama
ENGL 330 The Short Story
ENGL 400 Women's Literature
ENGL 402 Text and Film
ENGL 426 Children's Literature

## minor in translation

The Minor in Translation is designed to develop translation kills for students interested in acquiring an advanced leve of proficiency in Arabic/English translation. The minor offers from English to Arabic and vice versa. The minor aims at developing students' awareness of the cultural and linguistic challenges involved in translation as well as preparing them o pursue advanced degrees in the field.

## Declaring the Minor

Applicants for the minor in Translation must satisfy QU equirements for declaring a minor. In addition, students or equivalent test and pass the department admission test.

## Minor in Translation (24 CH)

Students seeking a minor in Translation must complete a

## linor Core Requirements ( 15 CH )

Students must complete a minimum of 15 credit hours in Tinor Required courses:
TRAN 201 Principles and Strategies of Translation TRAN 202 Theoretical and Practical Models of Translation
TRAN 301 Media Translation I
TRAN 302 Specialized Translation
TRAN 303 Intercultural Communication

## Minor Elective Courses (9 CH)

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

- TRAN 310 Functional Arabic Grammar for Translators

TRAN 311 Functional English Grammar for Translators

- TRAN 312 Linguistic Comparison of Arabic \& English

TRAN 313 Discourse Analysis for Translators
TRAN 314 Media Translation II
TRAN 401 Rhetoric for Translators

## MINOR IN FRENCH

The Minor in French aims to build and expnad students' skills and competencies in French, and introduce them to the French culture. The minor is also aimed at developing students' appreciation of other cultures and languages in 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. Admission into the French minor is competitive and will be based on a recommendation by the relevant committee at the program and/or college leve.

## 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 110 Intermediate French
FREN 111 Intermediate French

- FREN 200 Language, Culture, and Society


## FREN 210 French for Oral Communication

## 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

- 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 expnad 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 interconnected world.

## Declaring the minor

Applicants for the minor in Spanish must satisfy QU
Applicants for the minor in Spanish must satisfy QU
requirements for declaring a minor. In adddition, applicants requirements for declaring a minor. In addition, applicants
must complete a Spanish Competency exam (placement test) to be administrated 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 requirem
9 credit hours in Minor electives

## Minor Requirements ( 15 CH )

Students must complete a minimum of 15 credit hours in SPAN 100 can courses.
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 222 Spanish composition I SPAN 310 Spanish Phonetics
SPAN 311 Introduction to Spanish Literature SPAN 321 Business Spanish

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


| THIRD YEAR (30 credit hours) |  |  |  |
| :---: | :---: | :---: | :---: |
| Term | Course \# | Course Title | Credit Hours |
| Fall | ENGL 301 | Syntax | 3 |
|  | ENGL 304 | Language \& Psychology Package Course | 3 |
|  |  | Minor Course 1 | 3 |
|  |  | Minor Course 2 | 3 |
|  |  | Core Curriculum | 3 |
| Total Credit Hours in Semester |  |  | 15 |
| Spring | ENGL 303 | Sociolinguistics | 3 |
|  |  | Language \& Meaning Package Course | 3 |
|  |  | Minor Course 3 | 3 |
|  |  | Minor Course 4 | 3 |
|  |  | Free Elective | 3 |
| Total Credit Hours in Semester |  |  | 15 |


| SECOND YEAR (30 credit hours) |  |  |  |
| :---: | :---: | :---: | :---: |
| Term | Course \# | Course Title | Credit Hours |
| Fall | ENGL 230 | Professional Writing | 3 |
|  | ENGL 208 | Literary Criticism | 3 |
|  | ENGL216 | Phonetics and Phonology | 3 |
|  |  | Core Curriculum | 3 |
|  |  | Free Elective | 3 |
| Total Credit Hours in Semester |  |  | 15 |
| Spring | ENGL 226 | History of the English Language | 3 |
|  |  | Language across Disciplines Package Course | 3 |
|  |  | Core Curriculum | 3 |
|  |  | Core Curriculum | 3 |
|  |  | Free Elective | 3 |
|  | Total Credit | s in Semester | 15 |



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

| FIRST YEAR (30 credit hours) |  |  |  |
| :---: | :---: | :---: | :---: |
| Term | Course \# | Course Title | Credit Hours |
| Fall | ENGL 150 | Essay Writing I | 3 |
|  | ENGL 151 | Advanced Reading Comprehension | 3 |
|  | ENGL 155 | Introduction to Language | 3 |
|  | ENGL 156 | Introduction to Literature I | 3 |
|  |  | Core Curriculum | 3 |
| Total Credit Hours in Semester |  |  | 15 |
| Spring | $\begin{gathered} \text { ENGL } \\ 153 \end{gathered}$ | Essay Writing II | 3 |
|  | $\begin{gathered} \text { ENGL } \\ 157 \end{gathered}$ | Introduction to Linguistics | 3 |
|  | $\begin{gathered} \hline \text { ENGL } \\ 158 \\ \hline \end{gathered}$ | Introduction to Literature II | 3 |
|  |  | Core Curriculum | 3 |
|  |  | Core Curriculum | 3 |
| Total Credit Hours in Semester |  |  | 15 |


| SECOND YEAR ( 30 credit hours) |  |  |  |
| :---: | :---: | :---: | :---: |
| Term | Course \# | Course Title | Credit Hours |
| Fall | ENGL 230 | Professional Writing | 3 |
|  | ENGL 208 | Literary Criticism | 3 |
|  |  | Core Curriculum | 3 |
|  |  | Core Curriculum | 3 |
|  |  | Free Elective | 3 |
| Total Credit Hours in Semester |  |  | 15 |
| Spring | ENGL 226 | History of the English Language | 3 |
|  | ENGL 220 | American Literature | 3 |
|  |  | Minor Course 1 | 3 |
|  |  | Core Curriculum | 3 |
|  |  | Free Elective | 3 |
|  | Total Cred | rs in Semester | 15 |

## 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

Saif Shaheen AI-Muraikhi , Ibrahim Muhammad Shahdad, Ahmed Abushouk, Nezam Abbasi, Khaled Qutb, Yousif Bani Yassen, Mohamed Mahmoud, Isam R. Hmaza, Isam Nassar

## Associate Professors:

Yousif Ibrahim Al-Abdullah, abd Alhakem Abd Alhak, Noura Yousif Al-Kuwari, Abdul Qader Al-Qahtani, Nedham Abdul Kareem Al-Shafei, Hossam Abdulmoati, Sherine Elmenshawy, Nasser Abdul Rahman Fakhroo, Maher Abu Munshar, Reem Meshal, Mohammedmoain Sadeq, Taef Kamal El-Azhari, Mohamed Adel Manai, Nasser Ibrahim Soliman, Paul Bouffard

## Assistant Professors:

Khalid Hamad Abaalzamat, Farid Al-Salim, Mariam Al.Mulla, Muhammad Khalifa Al-Kuwari, Nora Barakat, Edward Moad, Peter Polak-Springer, Amr Osman, Ah Galal Bassiouny,

## Lecturers:

Ghanim Al Humiadi

## eaching Assistant:

Abdulaziz Al Manna
Abdulrahman Yousuf Al-Abdull
Abdullah Haidar

## 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 at large. The Department currently offers a major in History, as well as a minor
in Geography and Urban Planning for History and Sociolo gy students. In addition, the Department offers many elec tive 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 educaional and industrial sectors.
The faculty members of the department are highly qualified with international academic experience, and are committed
to advance the learning 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 extending the frontier of social and scientific knowledge that will benefit the State of Qatar and humanity at large. Their research results have been disseminated internationally through conferences. Moreover, some of their research projects have been supported by national and institutional grants. The Department of Humanities continues to serve the Qatari society in various capacities, including community outreach programs, professional development activities, and collaborative partnerships with various sectors of the
national and international community.

## BACHELOR OF ARTS IN HISTORY

## bjectives

1. Encourage students to see cause and effect relationship over time and across civilizations by using a mixed chrono ogical, thematic, and topical approach.
. Expand students' ability to understand the chronological relationship between geography and history, resulting in naterns of social incence of lifestyles, cultures, and 3. Enhance students' recognitit major turning points in history.
2. 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 achievement and mastery of the program level learning outcomes Analyze the evolution and distinctive characteristics o global societies and cultures across different periods in histor

Recognize the impact of interactions among major civillAns.
Analyze the persistent pattern of continuity and change cross world and regional history period
Compare instances of equality and disparity, and human successes and failures in history.

- 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 governthe media sector, authorities and councils, and also non-governmental organizations including hotels, tourism agencies and publishing houses. In addition, graduates are highly demanded for work at museums, libraries and research centers. Also, Qatar University, as well as oth universities, have employment openings for graduates.

## Admissions Requirements

Applicants must satisfy QU defined College and Program requirements including the minimum high school percentage requirement.
etailed Undergraduate admission requirements are vailable at the following link: http://www.qu.edu.qa/ students/admission/undergraduates.php

## Declaring the major

Students must satisfy QU requirements for declaring a major including the need to declare the major befor completing 36 UG credit hours. In addition, students declaring a major in History must have completed a minimum of 9 CH in the core curriculum progra 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 requirement

- A minimum of 6 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 ackage.
it 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

ARAB 200 Arabic Language
ENGL 110 English I

- DAWA 111 Islamic Cultur

Social/Behavioral Sciences package (3CH) Courses in the CCP defined Social/Behavioral Sciences package
Humanities/Fine Arts package (3 CH
tudents must complete a minimum of 3 Credit Hours from atar 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/Mathematic package
Supplemental College / Program core requirement package ( 9 CH )
ENGL 251 In
UNIV 100 First Year Seminar

## Major Requirements ( 27 CH )

Students must complete a minimum of 27 credit hours in Major-required courses:
HIST 103 An Introduction to Histor
HIST 111 The History of the Muslim World I ( $600-1187$ )
SIST 131 W of Qata
HIST 204 Histaristory Since 1300
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 220 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
20th
HIST 4
ST 470 Modern Latin American History
INTA 302 Politics of Oil
INTA 345 The Arab Israeli Conflict

## ocus Area ( 15 CH )

udents must select one of the three Focus Area Packages namely the Islamic History Focus Area Package ackage, or the Modern

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 3 CH from The Islamic History Focus Area Additional Electives II Package.

## The Islamic Hist

ackage (3 CH)
-HIST 217 Islamic Civilization
The Islamic History Focus Area Electives Package 6 CH )
位解s must complete a minimum of 6 credit hours in the ocus area elective courses
 HIST 318 History of Al-Andulus
HIT 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

- 1 ST 417 Topics in Islamic History
he Islamic His
ackage (3
tudents must comp
om the Modern Gulf History Focus Area Requirements or Electives Packages.
The Islamic History Focus Area Additional Electives II ackage (3 CH)
Students must complete a minimum of 3 credit hours taken rm the European History Focus Area Requirements or Electives Packages.

The Modern Gulf History Focus Area Package (15 CH) Students must complete a minimum of 3 CH in The Modern Gulf History Focus Area Requirements Package, minimum of 6 CH in The Modern Gulf Focus Area Gulf Focus Area Additional Electives I Package Moder minimum of 3 CH from The Modern Gulf Focus Area Additional Electives II Package

## he Modern Gulf History Focus Area Requirements

 Package (3 CH)HIST 222 The Gulf in Modern Period

## The Modern Gulf History Focus Area Electives

## ackage ( 6 CH )

Students must complete a minimum of 6 credit hours in the cus area elective courses
HIST 322 ran and its Neighbours
Contemporary Histor
HIST 324 Economic History of the Gut
HIST 421 The Gulf and the Arab World
HIST 425 Topics in Gulf History
SOCI 462 Change in Contemporary Arab Society

## The Modern Gulf History Focus Area Additional Elec-

 tives I Package (3 CH)Students must complete a minimum of 3 credit hours taken from the Islamic History Focus Area Requirements or Electives Packages.

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

The European History Focus Area Package ( 15 CH ) Students must complete a minimum of 3 CH in The European History Focus Area Requirements Package, a Electives Package a minimumean History Focus Area 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 Requirement

 Package (3 CH)HIST 231 Europe and the World since 1500 CE

## The European History Focus Area Electives

 Package ( 6 CH )Students must complete a minimum of 6 credit hours in the focus area elective courses
HIST 331 Ancient Greece and Rome, 1200 BCE to 500 - HIST

HIST 332 Medieval Europe, 500 to 1400 CE
HIST 333 The Renaissance and Reformation, 1400
HIST
HIST 337 The Age of Absolutism and Revolution, 1648
HIST 431 Nationalism and its Consequences, 1815 to 1914
HIST 432 Europe Between the Two World Wars, 1914-

## The European History Focus Area Additiona

lectives I Package ( 3 CH )
tudents must complete a minimum of 3 credit hours taken Electives Packages.

## The European History Focus Area Additional Elective

## Package (3 CH)

Students must complete a minimum of 3 credit hours take 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 equirement packages are: The Islamic History Focus 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 )
tudents 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 hour
aken from the Persian Language Package or the Turkish Language Package

## ne European History Focus Area Langua

## Requirement package ( 6 CH )

ents must complete a minimum of 6 credit hours aken from the French Language Package or the Spanis Language Package

The Persian Language package ( 6 CH ) ARAB 271 Persian Language 1
ARAB 372 Persian Language
The Turkish Language package (6 CH)
TURK 101 Turkish 1

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

## Minor Requirements ( 24 CH )

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

## ree Electives (9 credit hours) <br> um of 9 Credit Hours in

## MINOR IN HISTORY

The Minor in History is an excellent opportunity for students who are interested in providing depth to their chose of specialization. Adding an interdisciplinary aspect to a egree this minor allows students to learn about histor 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

pplicants for the minor in History must satisfy QU Applicants or the minorements for declaring a minor.

## Minor in History ( 24 CH )

Students seeking a minor in History must complete a mini-
mum 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 inor-required courses:
HIST 103 An Introduction to History
HIST 111 History of the Muslim World I ( $600-1187)$
HIST 131 World History Since 1300
HIST 213 Modern Arab History (1516-1919)

## Minor Electives (12 CH)

Students must complete a minimum of 12 credit hours in Minor elective courses. Those credits can be selected from Minor elective courses. Those credits can be selected fro
the list of the major electives or any of the focus areas 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-Andulu
IST 20 History of the Crusades (The Franks Invasion) HIS 320 History of Islamic Sects and Movements

- 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

IST 332 Medieval Europe, 500 to 1400 CE

- HIST 333 The Renaissance and Reformation, 1400 to
- 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 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
$\cdot$
- 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
NTA 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 survey of their historical development, along with rigorous training of a wide-ranging, highly transferable critical inking skill set; all aimed at enhancing the student 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 mor in Philosophy, including the following
equirements
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
PHI 200 Klamic Philosophy
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 410 Special Topics


SECOND YEAR (30 credit hours)

| Term | Course \# | Course Title | Credit Hours |
| :---: | :---: | :---: | :---: |
| Fall | HIST 103 | An Introduction to History | 3 |
|  | HIST111 | History of the Muslim World I (600-1187) | 3 |
|  | HIST 121 | History of Qatar | 3 |
|  | HIST 131 | World History since 1300 | 3 |
|  |  | Language 1 | 3 |
| Total Credit Hours in Semester |  |  | 15 |
| Spring | HIST 204 | Historiography | 3 |
|  | HIST 213 | Modern Arab History (1516 - 1919) | 3 |
|  |  | Core Curriculum 11 | 3 |
|  |  | Mandatory focus | 3 |
|  |  | Free elective 1 | 3 |
| Total Credit Hours in Semester |  |  | 15 |



## DEPARTMENT OF INTERNATIONAL AFFAIRS

College of Arts and Sciences
Phomen' ( 974 ) 4403 -4930
Email: iap@qu.edu.qa
Website: http://www.qu.edu.qa/artssciences/international_affairs

## Acting Head

## Ahmed H. Ibrahim

## Faculty

Professors:
Ahmed H. Ibrahim, Larbi Sadiki, Adnan Mohammad Hayajneh

## Associate Professors:

Youcef Bouandel, Farhan Chak, Hassan AI Barari, Hossneya (Islah) Gad

Assistant Professors:
Mazhar Al-Zo'by, Hatoon AI-Fassi, Imad Mansour, Layla Saleh, Brahim Saidy, Tamer EIGindi, Ahmed Badran, Ali Ahmed, Meshari Al Ruwaih, Zoheir Hamedi, Ashraf Meshrif, Esmat Zaidan

## Lecturers

Thayyiba Ibrahim; Tamadher Al Malik

## eaching Assistants

end Al-Sulati; Fatema Ali, AlReem Saif AL-Naimi, Aisha Hadi Al-Rashdi, Eman Sultan AI Maadeed, Maryam AI Kuwari, Noof Al Dosari, Abdullah AI Etaibi, Mohammad Heedan, Haya Al Nuaimi

## AbOUT THE DEPARTMENT

The Department of International Affairs offers an interdisciplinary degree focused on generating knowledge disciplinary degree focused on generating knowledge
and understanding the politics, histories, economies, and and understanding the poilitics, histories, economies, and
cultures of modern global societies. Through focusing on national, regional, and international issues, the degree seeks to prepare its graduates to thrive in an increasingly interdependent global community by grounding them in independent critical thinking, leadership skills, global awareness, tolerance, and social responsibility. Graduates 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 - 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.
nts impamics of globalization
Providpact on global and local contexts.
understand the contemporary national, regional and globa challenges facing society today.

## Learning Outcomes

Analyze global issues, systems and trends from a variety f disciplinary perspectives (political, cultural, economic, eographic, and diplomatic)
Utilize discipline-specific information from appropriate sources.
Explain the importance of the histories, politics, cultures and perspectives of different regions of the world.
Analyze the political, economic, diplomatic and strategic ole of Qatar in the Gulf and the region.
Evaluate the political and economic impact of energy and atural resources on modern societies and internationa affairs
Apply qualitative and quantitative research methods skills to international affairs related issues.
and ersua
sively in both oral and written formats.

## Opportunities

Graduates will be ready for further study and professiona careers in public and private sectors, including foreign civil service and journalism.

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 students/admission/undergraduates.php

## Declaring the major

Students must satisfy QU requirements for declaring major including the need to declare the major before completing 36 UG credit hours. In addition, students

DEGREE REQUIREMENTS

## Major in International Affairs

A minimum of 120 credit hours are required to complete the major in International Affairs, including the following - A minimum of 33 credit hours in Core Curriculum equirements
A minimum of 39 credit hours in Major Requirements.
A minimum of 18 credit hours in Major Electives.
Concentration requirements

- A minimum of 6 credit hours in Free Electives

Core Curriculum Requirements ( 33 CH )
Common package ( 15 CH )
ARAB 100 Arabic Language
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 Qatar and Gulf History Sub-package part of the Humanities/Fine Arts package

## Natural Science/Mathematics package (3 CH )

Satisfying this package's requirements depends on the oncentratio Students selecting a concentration area other cours International Political Economy Concentration area may complete any of the courses listed in the CCP defined Natural Science/Mathematics package.
Supplemental College / Program core requirements

## package (9 CH )

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

Major Core Requirements (39 CH)

Students must complete a minimum of 39 credit hours in Major required courses:
EDUC 201 Research Methodology
INTA 100 First Year Seminar
INTA 102 Introduction to Political Sciencel
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 415 History of the Middle Eas LAWC 339 Public International Law

## Major Electives ( 18 CH )

Students must complete a minimum of 18 credit hours (CH) from the Major Electives 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 package requirements by either completing all 18 CH from package requirements by either completing all 18 CH from
the Electives I Sub-package, or 15 CH from the Electives 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 ( $12-18 \mathrm{CH}$ )
tudents must complete a minimum of 12 credit hours
ITA 201 Comparative Political
-INTA 201 W enive Political Systems
INTA 204 Middle East History
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 Arab-Israeli Conflict
INTA 350 Foreign Policy of the United State
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 Right
INTA 450 Ethics of International Relations
INTA 461 Special Topics

- INTA 465 Leadership and Civic Responsibility INTA 470 Area Studies


## 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 ourses listed in the Japanese Language Sub-Package

- JAPN 101 Japanese I
- JAPN 102102 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
Concentration in International Security and Diplomacy

## (24 CH)

ts must complete a minimum of 12 CH in concen tation core requirements and a minimum of 12 CH concentration electives.

## International Security and

Core Requirements ( 12 CH )
INTA 200 Study and Practice of Diplomacy
INTA 403 Security Studies

- INTA 420 Conflict Resolution and Human Rights


## International Security and Diplomacy Concentration

Electives (12CH)
A minimum of 12 credit hours in Concentration Elective courses:
FREN 301 French Language 3
-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
NTA 470 Area Studies
LAWC 102 Human Rights and International Humanitarian Law

- SOCI 368 Law and Society

SOCI 366 Language, Communication and Society

Concentration in International Political Economy (24 CH )
Studen
s must complete a minimum of 12 CH in oncentration 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
Business Mathematics
ives ( 12 CH )
ives ( 12 CH )
courses:
ECON 451 Economic Developmen
ECON 453 International Economic

- ECON 454 Economics of Energy

HIST 324 Economic History of the G
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 462 craduction to Anthropology

12
A minimum of 12 credit hours in Concentration Elective
courses:
ARAB 481 Modern Literary Criticism
ARAB 482 Contemporary Gulf Literature
ENGL 209 Language and Society
ENGL 213 Language and Culture
HIST 231 Europe and the World since 1500 CE
HIST 334 Arabian Gulf in Antiquity
HIST 416 History of Islamic Arts and Architecture HIST 425 Topics in Gulf History

HIST 427 Muslim Minorities in the World
INTA 206 Globalization
INTA 209 Islam and the West

- INTA 300 Chinese Society and Politics in the 21st Cen-
- Itry
- INTA 470 Area Studies
- PHIL 110 Introduction to Philosophy

SOCI 120 Introduction to Sociology
SOCI 263 Badawi Society
SOCI 264 Family and Kinship
SOCI 265 Population and Migration

- SOCI 361 Human Rights


## Free Electives ( 6 CH )

Students must complete a minimum of 6 Credit Hours in free electives from courses outside the International Affairs major.

## Minor in International Affairs

The minor in International Affairs aims to equip students
with interdisciplinary knowledge in the field of Internationa 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 QU requirements for declaring a minor.

## Minor in International Affairs (24 CH)

Students seeking a minor in International Affairs must com
plete 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
Students must complete

- 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
AWC 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 21 s Century TA 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

Study Plan for International Affairs
Bachelor of Arts in International Affairs

| FIRST YEAR ( 30 credit hours) |  |  |  |
| :---: | :--- | :--- | :---: |
| Term | Course \# | Course Title | Credit <br> Hours |
|  | Core | Core Curriculum Elective | 3 |
|  | Core | Core Curriculum Elective | 3 |
|  | Core | Core Curriciulum Elective | 3 |
|  | Core | Core Curriculum Elective | 3 |
|  | Core | Core Curriculum Elective | 3 |
| Total Credit Hours in Semester |  |  |  |
|  | Core | Core Curriculum Elective | 15 |
|  | Core | Core Curriculum Elective | 3 |
|  | Core | Core Curriculum Elective | 3 |
|  | Core | Core Curriculum Elective | 3 |
|  | Core | Core Curriculum Elective | 3 |
| Total Credit Hours in Semester |  |  | 15 |

## THIRD YEAR (30 credit hours)

| Term | Course \# | Course Title | Credit Hours |
| :---: | :---: | :---: | :---: |
| Fall | INTA 313 | Culture and Politics | 3 |
|  | LAWC 339 | Public International Law | 3 |
|  | Elective | INTA Major Elective | 3 |
|  | - | Concentration OR Minor 1 | 3 |
|  | - | Concentration OR Minor 2 | 3 |
| Total Credit Hours in Semester |  |  | 15 |
| Spring | INTA 302 | Politics of Oil | 3 |
|  | Elective | INTA Major Elective | 3 |
|  | Core | Core Curriculum Elective | 3 |
|  | - | Concentration OR Minor 3 | 3 |
|  | - | Concentration OR Minor 4 | 3 |
| Total Credit Hours in Semester |  |  | 15 |


| SECOND YEAR (30 credit hours) |  |  |  |
| :---: | :---: | :---: | :---: |
| Term | Course \# | Course Title | Credit |
| Fall | INTA 296 | International Organizations | 3 |
|  | INTA 101 | Political and Social Thought | 3 |
|  | INTA 102 | Introduction to Political Science | 3 |
|  | INTA 100 | First Year Seminar | 3 |
|  | Elective | INTA Major Elective | 3 |
| Total Credit Hours in Semester |  |  | 15 |
| Spring | INTA 308 | International Political Economy | 3 |
|  | INTA 306 | Gulf Studies | 3 |
|  | INTA 103 | Introduction to International Relations | 3 |
|  | EDUC 201 | Research Methodology | 3 |
|  | Elective | INTA Major Elective | 3 |
| Total Credit Hours in Semester |  |  | 15 |


| FOURTH YEAR ( 30 credit hours) |  |  |  |
| :---: | :---: | :---: | :---: |
| Term | Course \# | Course Title | Credit Hours |
| Fall | INTA 415 | History of the Middle East in the 20th Century | 3 |
|  | Free Elective | Free Elective | 3 |
|  | Elective | INTA Major Elective | 3 |
|  | - | Concentration OR Minor 5 | 3 |
|  | - | Concentration OR Minor 6 | 3 |
| Total Credit Hours in Semester |  |  | 15 |
| Spring | INTA 411 | Capstone | 3 |
|  | Free Elective | Free Elective | 3 |
|  | Elective | INTA Major Elective | 3 |
|  | - | Concentration OR Minor 7 | 3 |
|  | - | Concentration OR Minor 8 | 3 |
| Total Credit Hours in Semester |  |  | 15 |

POLICY, PLANNING AND DEVELOPMENT PROGRAM
Department of International Affairs
College of Arts and Sciences
C01-108 Women's Building
Phone: (974) 4403-4930
Email: dia@qu.edu.qa
Website: http://www.qu.edu.qa/artssciences/ international_affairs/policypd/index.php

## Acting Head

Ahmed H. Ibrahim

## ABOUT THE PROGRAM

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

BACHELOR OF ARTS IN POLICY, PLANNING AND DEVELOPMENT

## Objectives

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

## Additional Requirements

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

Learning Outcomes
Students completing the Major will acquire competency in 1. Students will apply

1. Students will apply basic research methods in the social and natural sciences
2. Students will utilize critical and creative thinking,
skeptical inquiry and, when possible, a scientific approach to solving problems.
3. Students will be able to communicate effectively in a variety of formats.
4. Students will analyze the complexity of sociocultural and global diversity

Students completing the Concentration in Energy and Security will acquire the additional competency
following domain by developing the ability to:

1. Students will interpret the role of oil and gas in the central events in world history.
2. Students will analyze the role of different sources of energy in an international context.

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

Students completing the Concentration in Public Policy will acquire the additional competency in the following domain by developing the ability to:

1. The student demonstrates the ability to identify and analyze a policy issue and present well-informed polic romility to critica
. Ability to critically evaluate factors shaping the policy making process
Students completing the Concentration in Urban Planning and Development will acquire the additional competency in the following domain by developing the ability to: 1. Students are expected to demonstrate knowledge of current
principles and practices of urban planning relevant a multiple levels of government from local to global. . Demonstrate specialized knowledge on the tools and prerequisites for urban transition.

## Opportunities

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

## Admissions Requirements

Applicants must satisfy QU defined College and Program requirements including the minimum high school
percentage requirement.
Detailed Undergraduate admission requirements are vailable at the following link: http://www.qu.edu.qa/ students/admission/undergraduates.php

## 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 Policy, Planning and Development must have completed a minimum of 9 CH in the cot curriculum program requirements with a minimum 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.
inum of 9 credit hours in Major Electives. - A minimum of

A minimum of 6 credit hours in Capstone and Internship Requirements.
Core Curriculum Program ( 33 CH )
ommon package ( 15 CH )
ARAB 100 Arabic Language
ARAB 20 Arabic Language
ENGL 111 English II

- DAWA 111 Islamic Culture


## Social/Behavioral Sciences package (3 CH) <br> Any Course in the CCP defined Social/Behaviora

 Sciences package
## umanities /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 the following course from MATH 103 Int Science Mainer
MATH 103 Intermediate Algebra

Supplemental College/Program Core Requirements package (9 CH)
ENGL 250 English for Communication I ENGL 251 English for Communication II UNIV 100 First Year Semina

## Major Requirements (48 CH)

Students must complete the following courses:
ECON 112 Macroeconomics
EDUC 201 Research Methodology
INTA 102 Introduction to Political Scienc

- INTA 103 Introduction to International Relations
- INTA 440 Politics of Development

INTA 465 Leadership and Civic Responsibility MAGT 101 Principles of Management

- POPL 100 Introduction to Public Policy and Analysis
-POPL 200 Ethical Development of Public Policy - POPL 210 Disaster Planning and Crisis Managemen Fundamentals
POPL 229 Public Finance
POPL 300 Principles and Tools for Evidence-Based Policy Decision Making
POPL 400 Public Leadership and Policy Development SOCI 120 Introduction to Sociology


## STAT 220 Business Statistics

## Major Electives (9 CH)

Students must complete a minimum of 9 credit hours in
courses selected from the following:

- HIST 324 Economic History of the Gulf

LAWC 339 Public International Law
MAGT 302 Human Resource Management
POPL 221 International Energy Issues
POPL 228 Introduction to Energy Law and Policy
POPL 232 Energy and Environmental Econo

- POPL 241 Community-Based Policy Development and Analysis
POPL 242 Law and Public Policy
POPL 245 Introduction to the Theory and Practice of Urban Planning
OPL 85 Impact Assessment Studie
POPL 321 Energy: Science, Technology, and Human Usage
POPL 325 International Law and Security POPL 330 International Environmental Climate Change Politics and Policy

POPL 335 Science, Technology and Policy POPL 340 Organizational Behavior and Management in Public Service Agencies
-POPL 3450 Diversity and Community Development - POPL 353 Transportation and Transit-Oriented

Development

- POPL 375 Urban Sustainability
- POPL 385 Special Topics I
- POPL 386 Special Topic II
- POPL 387 Energy Conservation

POPL 392 Post-Disaster Recovery and Planning

- POPL 420 Energy and Global Security
- POPL 432 Sustainability Planning and Protecti Cultural Resources
- POPL 439 Environmental Impact Assessmen
- POPL 450 Urban and Regional Economics
- POPL 452 Urban Planning and Development
- POPL 470 Communication Fundamentals for Leaders in


## Public Policy

- POPL 485 Public Policy and Knowledge based Economy -SOCI 265 Population Energy


## Concentration in Public Policy ( $\mathbf{2 4} \mathbf{C H}$ )

Students must complete a minimum of 15 credit hours in the Public Policy concentration core requirements packag and 9 credit hours in the Public Policy concentration electives.

## ublic Policy Co

 package ( 15 CH )tudents 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 335 Science, Technology and Policy
POPL 392 Post-Disaster Recovery and Planning
- POPL 485 Public Policy and Knowledge Based Economy - SOCI 368 Law and Society

Concentration in Environment and Sustainability
$(24 \mathrm{CH})$
Students must complete a minimum of 15 credit hours in the Environment and Sustainability concentration 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 ng and Protection of Cultural Resources
SOCI 200 Sustainmental Impact Assessment

## Environment and Sustainability Concentration

 Electives package ( 9 CH )Students must complete 9 credit hours from the following courses:
BIOL 345 Health Safety and Environment

- GEOL 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 Energy and Security ( 24 CH )

 Students must complete a minimum of 15 credit hours in he Energy and Security concentration core requirements package and 9 credit hours in the Energy and Security
## nergy 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 420 Energy and Global Security

## Energy and Security Concentration Electives

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

## Concentration in Urban Planning and Development (

 24 CHStudents must complete a minimum of 15 credit hours in the Urban Planning and Development concentration co equring package and credration

## Urban Planning and Development Concentration

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

## Urban Planning and Development Concentration

 lectives package (9 CH)Students must complete 9 credit hours from the following urses:
POPL 285 Impact Assessment Studies
-POPL 350 Housing and Community Development
POPL 375 Urban Sustainability
SOCI 265 Population and Migration
SOCI 267 Urban Studies

## Capstone and Internship Requirements ( 6 CH )

 Students must complete the following coursesPOPL 499 Capstone

## MINOR IN POLICY PLANNING AND DEVELOPMENT

This minor program offers students enrolled in other
majors a comprehensive knowledge and expertise in Policy, Planning and Development to complement their major. This minor will contribute in equipping students with leadership skils and in enhancing their ability to analyze, for the common good of the country, region, communities, and global society. The program addresses several subspecialties, including sustainability, energy security, public policy and planning.

## Declaring the minor

Applicants for the minor in Policy Planning and
Applicants for the minor in Policy, Planning and Development must satisfy QU requirements for declaring a minor.

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

- A minimum of 15 credit hours in the Minor Requirements


## A minimum of 9 credit hours in the Minor Electives

## Minor Requirements ( 15 CH )

Students must complete the following courses
POPL 100 Introduction to Public Policy and Analysis - POPL 200 Ethical Development of Public Policy POPL 300 Principles and Tools for Evidence-Based Policy Decision Making
POPL 400 Public Leadership and Policy Development
SOCI 120 Introduction SOCI 120 Introduction to Sociology

## Minor Electives (9 CH)

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 335 Science, Technology and Policy
-POPL 340 Organizational Behavior and Management in Public Service Agencies
- POPL 450 Urban and Regional Economics

| FIRST YEAR (30 credit hours) |  |  |  |
| :---: | :--- | :--- | :---: |
| Term | Course \# | Course Title | Credit <br> Hours |
|  | Core | MATH 103 - Numbers <br> and Basic Algebra | 3 |
|  | Core | Core Curriculum Elective | 3 |
|  | Core | Core Curriculum Elective | 3 |
|  | Core | Core Curriculum Elective | 3 |
|  | Core | Core Curriculum Elective | 3 |
| Total Credit tours in Semester |  |  |  |
|  | Core | Core Curriculum Elective | 3 |
|  | Core | Core Curriculum Elective | 3 |
|  | Core | Core Curriculum Elective | 3 |
|  | Core | Core Curriculum Elective | 3 |
|  | Core | Core Curriculum Elective | 3 |
| Total Credit Hours in Semester |  |  |  |

## SECOND YEAR ( 30 credit hours)

| Term | Course \# | Course Title | Credit Hours |
| :---: | :---: | :---: | :---: |
| Fall | Core | Core Curriculum Elective | 3 |
|  | POPL 100 | Introduction to Public Policy and Analysis | 3 |
|  | INTA 102 | Introduction to Political Science | 3 |
|  | SOCI 120 | Introduction to Sociology | 3 |
|  | POPL 200 | Ethical Development of Public Policy | 3 |
| Total Credit Hours in Semester |  |  | 15 |
| Spring | INTA 103 | Introduction to International Relations | 3 |
|  | EDUC 201 | Research Methodology | 3 |
|  | POPL210 | Disaster-Planning and Crisis Management | 3 |
|  | MAGT 101 | Principles of Management | 3 |
|  | STAT 220 | Business Statistics 1 | 3 |
| Total Credit Hours in Semester |  |  | 15 |



## 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) 4403-4860/4865 / 4866
Email: headdepmasscommunication@qu.edu.qa Website: http://www.qu.edu.qa/artssciences/macom/ index.php

## Acting Head

Mahmoud Galander

## Faculty

## Professor:

Mohamed Kirat
Basyoni Hamada
Associate Professors:
Mahmoud Galander, Nishan Rafi, Noureddine Miladi Haydar Badawi Sadig, Abdulrahman Al-Shami, Leon Barkho, Jamal Zran

## Assistant Professors

Saadia Malik, Kamal Hamidou, Abdullah Zain Hidri, Hala Guta

## Lecturers:

Al-Sayed Alkilani, Mohamed El Kafrawy, Mohamed Sadeek, Eiman Eissa, Chaker Ayyadi, Rana Hassan, Hind Al-Ibrahim, Nejud Al-lbrahim, Fuad Abdulaziz, and Afsaneh Shibani

## Teaching Assistants

Dala Al Dosari, Sara Al Derham, Nourhan El Abbassy, smail Sheikh, Fatema AI Doh and Hamda Al Mohannadi

## ABOUT THE DEPARTMENT

The Mass Communication Department strives to respond oo 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. Sudents develop their critical thinking abilities and acquir rofessional competencies by engaging in a hands-o addresses the needs of the mass media industries in the egion. 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 esearch, professional development, creative and service region.
CEJMC Communication Department has earned the in the Middle East to have the ACEJMC accreditation.

## BACHELOR OF ARTS IN MASS COMMUNICATION

## objectives

The major in Mass Communication strives to:
Provide students with strong theoretical and conceptual - Provide students with strong theoretical and co

- Enhance students' writing, oral, and editing skills.

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, nd Print/Online Journalism
Create an intellectual climate for students to think mass communication at thependently on issues related to mass
levels.

- Prom
Promote professional and ethical values related to mass communication fields.
Respect cultural diversity.


## Additional Requirements

Students in the program must prepare a capston 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 institutions. The panel evaluates the project and conven 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 o professional practice
Demonstrate an understanding of the history and role of professionals and institutions in shaping communications. Critically evaluate their work and that of others for accuracy and fairness, clarity, appropriate style and grammatical correctness

Comprehend concepts and apply theories in the use and presentation of images and information.
Demonstrate technical skills in writing and reporting
Orrectly and clearly for different audiences
appropriate to the communications professions in which they work, including the application of basic numerical and statistical concepts.
Think critically, creatively and independently.

- Acquire and apply an ethical framework for the practices f mass communication and journalism.
Demonstrate an understanding of the diversity of groups in a global society in relationship to comm
- Apply tools and technologies appropriate for the communications professions in which they work.
- Demonstrate an understanding of gender, race, ethnicity, sexual orientation and, as appropriate, other forms of diversity in domestic society in relation to mass
communications.


## Opportunities

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

## Admissions Requirements

Applicants must satisfy QU defined College and Program requirements including the minimum high school percentage requirement and pass a department-based interview and a written test.
Detailed Undergraduate admission requirements are ailabl students/admission/undergraduates.php

## 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 Mass Communication must have completed a minimum of 9 CH in the core curriculum progra

## DEGREE REQUIREMENTS

Major in Mass Communication
A minimum of 33 credit hours in Core Curriculum requirements.
A minimum of 6 credit hours in Major Supporting Core Requirements
A minimum of 6 credit hours in Major Supporting

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

Social/Behavioral Sciences package (3CH) Courses in the CCP defined Social/Behavioral Sciences package.
Humanities /Fine Arts package (3 CH ) tudents must complete a minimum of 3 Credit Hours from 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 packageSupplemental College / Program core requirement package ( 9 CH )
lish for Communication I
ENGL 251 English for Communication II

Major Supporting Core Requirements ( $6 \mathbf{C H}$ ) Students must complete a minimum of 6 credit hours of major supporting core requirements including.

STAT 101 Statistics

## 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 required courses:
MCOM 103 Media and Society

- MCOM 212 Visual Communication

MCOM 222 Communication Theories

- MCOM 317 Media Law and Ethics


## Major Electives (6 CH)

Sudents must complete a minimum of 3 credit hours in each of the Major Theoretical Electives and the Major Practical Electives packages.

## Major Theoretical Electives Package

Students must complete a minimum of 3 credit hours in
ajor Theoretical Elective courses
MCOM 223 Media Writing

- MCOM 303 Women and Media
- MCOM 349 Sports Journalism


## Major Practical Electives Package

Students must complete a minimum of 3 credit hours in Major Practical Elective courses:
MCOM 226 Special Topics in Mass Communication - MCOM 315 Communication Research Methods

- MCOM 348 Investigative Journalism
-MCOM 360 Photo Journalism
- MCOM 382 Organizational Communication
- MCOM 465 Web-Content for Radio


## Concentration in Print/Online Journalism ( 24 CH )

Students must complete a minimum of 18 CH in
celt corm 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 I MCOM 447 Journalism Internship
MCOM 450 Multimedia Journalism (Capstone)
Print/Online Journalism Concentration Electives (6 A minimum of 3 credit hours in Concentration Elective courses:
MCOM 345 Newspaper Design and Production
MCOM 346 Internet-Assisted Reporting
MCOM 348 Investigative Journalism
MCOM 452 Magazine Writing

## 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 )
Requirements ( 18 CH)

- MCOM 361 Broadcast News Reporting and Writing I - MCOM 364 Broadcast Production

MCOM 467 Broadcast Internship
MCOM 469 Television Documentary Production MCOM 470 Broadcast Capstone

## Broadcast/Online Journalism Concentration Elective

6 CH )
A minimum of 6 credit hours in Concentration Elective courses:

- MCOM 363 Announcing

MCOM 365 Script Writing

- MCOM 366 Broadcast Directing
- MCOM 367 Broadcast News Reporting and Writing II
- MCOM 465 Web-Content for Radio

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

## Strategic Communicatio

Requirements ( 18 CH )
MCOM 383 Princles of Public Relation
MCOM 384 Advertising Copy Writing and Design
MCOM 388 Public Relations Writing and Presentations MCOM 487 PR/AD Internship

- MCOM 490 Strategic Communication "Capstone"

A minimum of 6 credit hours in Concentration Electiv courses:
MCOM 364 Broadcast Production

- MCOM 382 Organizational Communication

MCOM 386 Public Relations and New Me
MCOM 491 Strategic Communication
MCOM 492 Social Marketing

- MCOM 493 Public Opinion Research


## Minor or Concentration Supporting Requirements

 $24 \mathrm{CH})$Students can choose to either enroll in a minor or to minor a student enrolled in is less than 24 CH , the student 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 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 Developmen

SOCI 263 Badawi Society
SOCI 363 Ethnicity
SOWO 361 Society and Human Rights
Concentration Supporting Requirements for the
Strategic Communication Concentration

- MAGT 101 Principles of Management
- MAKT 101 Principles of Marketing (E)

MAKT 301 Consumer Behavior
PSYC 201 Fundamentals of Psychol
PSYC 206 Introduction to Social Psychology
SOCI 261 Quantitative Methods SOCI 262 Qualitative Methods
SOCI 263 Badawi Society
SOCI 267 Urban Studies

## Free Electives ( 12 CH )

udents must complete a minimum of 12 Credit
ours in free electives from courses outside the Mass

## MINOR IN MASS COMMUNICATION

students a wide spectrum of knowledge in the field of Mas Communication through courses that cover the major areas of print and online journa and strategic communication.

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

## 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 342 News Reporting, Writing and Editing Arabic MCOM 342 News Reporting, Writing and Editing English
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

Study Plan for Broadcast/Online Journalism Bachelor of Arts in Mass Communication

| FIRST YEAR (30 credit hours) |  |  |  |
| :---: | :---: | :--- | :---: |
| Term | Course \# | Course Title | Credit <br> Hours |
|  | MCOM 103 | Media And Society | 3 |
|  |  | Core Curriculum 1 | 3 |
|  |  | Core Curriculum2 | 3 |
|  |  | Core Curriculum 3 | 3 |
| Spring |  | University Free Elective 1 | 3 |
| Total Credit Hours in Semester |  |  |  |
|  | MCOM 222 | Communication Theories | 15 |
|  | STAT 101 | Statistics I | 3 |
|  |  | Core Curriculum 4 | 3 |
|  |  | Core Curriculum 5 | 3 |
|  |  | University Free Elective 2 | 3 |
|  | Total Credit Hours in Semester | $\mathbf{1 5}$ |  |
|  |  |  |  |



| SECOND YEAR (30 credit hours) |  |  |  |
| :---: | :---: | :---: | :---: |
| Term | Course \# | Course Title | Credit Hours |
| Fall | MCOM 212 | Visual Communication | 3 |
|  |  | Core Curriculum 6 | 3 |
|  | SOCI 120 | Introduction to Sociology | 3 |
|  |  | Elective Supportive Courses Basket A | 3 |
|  |  | Core Curriculum 7 | 3 |
| Total Credit Hours in Semester |  |  | 15 |
| Spring | MCOM 215 | Multimedia Reporting and Writing 1 | 3 |
|  |  | Elective Supportive Courses Basket B | 3 |
|  |  | Core Curriculum 8 | 3 |
|  |  | Core Curriculum 9 | 3 |
|  |  | University Free Elective 3 | 3 |
|  | Total Credi | s in Semester | 15 |


| FOURTH YEAR (30 credit hours) |  |  |  |
| :---: | :---: | :--- | :---: |
| Term | Course \# | Course Title |  | \(\left.\begin{array}{c}Credit <br>

Hours\end{array}\right]\)

The minor in Mass Communication is designed to provide

FIRST YEAR ( 30 credit hours)

| Term | Course \# | Course Title | Credit Hours |
| :---: | :---: | :---: | :---: |
| Fall | MCOM 103 | Media And Society | 3 |
|  |  | Core Curriculum 1 | 3 |
|  |  | Core Curriculum2 | 3 |
|  |  | Core Curriculum 3 | 3 |
|  |  | University Free Elective 1 | 3 |
| Total Credit Hours in Semester |  |  | 15 |
| Spring | MCOM 222 | Communication Theories | 3 |
|  | STAT 101 | Introduction To Statistics <br> 1 | 3 |
|  |  | Core Curriculum 4 | 3 |
|  |  | Core Curriculum 5 | 3 |
|  |  | University Free Elective 2 | 3 |
| Total Credit Hours in Semester |  |  | 15 |



| SECOND YEAR (30 credit hours) |  |  |  |
| :---: | :---: | :---: | :---: |
| Term | Course \# | Course Title | Credit Hours |
| Fall | MCOM 212 | Visual Communication | 3 |
|  |  | Core Curriculum 6 | 3 |
|  | SOCI 120 | Introduction to Sociology | 3 |
|  |  | Elective Supportive Courses Basket A | 3 |
|  |  | Core Curriculum 7 | 3 |
| Total Credit Hours in Semester |  |  | 15 |
| Spring | MCOM 215 | Multimedia Reporting and Writing 1 | 3 |
|  |  | Elective Supportive Courses Basket B | 3 |
|  |  | Core Curriculum 8 | 3 |
|  |  | Core Curriculum 9 | 3 |
|  |  | University Free Elective 3 | 3 |
|  | Total Credit H | rs in Semester | 15 |



Study Plan for Strategic Communicatio

## FIRST YEAR ( 30 credit hours)

| Term | Course \# | Course Title | Credit Hours |
| :---: | :---: | :---: | :---: |
| Fall | MCOM 103 | Media And Society | 3 |
|  |  | Core Curriculum 1 | 3 |
|  |  | Core Curriculum2 | 3 |
|  |  | Core Curriculum 3 | 3 |
|  |  | University Free Elective 1 | 3 |
| Total Credit Hours in Semester |  |  | 15 |
| Spring | MCOM 222 | Communication Theories | 3 |
|  | STAT 101 | Statistics I | 3 |
|  |  | Core Curriculum 4 | 3 |
|  |  | Core Curriculum 5 | 3 |
|  |  | University Free Elective 2 | 3 |
|  | tal Credi | in Semester | 15 |



SECOND YEAR ( 30 credit hours)

| Term | Course \# | Course Title | Credit Hours |
| :---: | :---: | :---: | :---: |
| Fall | MCOM 212 | Visual Communication | 3 |
|  |  | Core Curriculum 6 | 3 |
|  | SOCI 120 | Introduction to Sociology | 3 |
|  |  | Elective Supportive Courses Basket A | 3 |
|  |  | Core Curriculum 7 | 3 |
| Total Credit Hours in Semester |  |  | 15 |
| Spring | MCOM 215 | Multimedia Reporting and Writing 1 | 3 |
|  |  | Elective Supportive Courses Basket B | 3 |
|  |  | Core Curriculum 8 | 3 |
|  |  | Core Curriculum 9 | 3 |
|  |  | University Free Elective 3 | 3 |
|  | Total Credit | in Semester | 15 |


| FOURTH YEAR (30 credit hours) |  |  |  |
| :---: | :---: | :---: | :---: |
| Term | Course \# | Course Title | Credit Hours |
| Fall | MCOM 317 | Media Law and Ethics | 3 |
|  | мСом 388 | Public Relations Writing and Presentations | 3 |
|  |  | Concentration Elective Basket | 3 |
|  |  | Minor Course 5 | 3 |
|  |  | Minor Course 6 | 3 |
| Total Credit Hours in Semester |  |  | 15 |
| Spring | MCOM 490 | Strategic Communication (Capstone) | 3 |
|  | MCOM 487 | AD Internship | 3 |
|  |  | Core Curriculum 11 | 3 |
|  |  | Minor Course 7 | 3 |
|  |  | Minor Course 8 | 3 |
|  | Total Credit | s in Semester | 15 |

## DEPARTMENT OF SOCIAL SCIENCES

Main Women's Building, Room 231 m
(Women's Section)
hone: (974) 4403-4750
Fax: (974)4403-4751
mail: sosciences@qu.edu.qa
ebsite: http://www.qu.edu.qa/artssciences sosciences

## ead

Abllasser Saleh Mohamed Alyafe

## Faculty

## Professo

AbdelSamad Mohamed Ali Mohamed, Fuad AI Salahi, moud Olimat (Coodinator of the Social Work Program) Magdy Atef, Soleman Abu-Bade

## Associate Professors:

Kaltham AI Ghanim, Curtis Andressen, Mohsen Bouazizi, El Rayah A. Osman (Cordinator of the Socioogy Program), Abdulnasser Alyafei, Ibrahim Alkaabi, Abdulnasser Alyafei, Abdrabo Soliman (Coordinator of the Psychology Program).
Assistant Professors
All Shawi, Fatima Al Kubaisi, Munira Al Rumaihi, Kaltan Alkuwari, Nada ElTaiba

## Lecturer:

Asma Malkawi, Chedli Chatti, Moustafa A. Elazab, Magda Fareed, Mahmoud Radwan, Amal El Gamal, Ehab Hamed Salem Aly, Talal Salah AI Qdah

## Teaching Assistants

trah Al Otebi, Shakha Al Kuwari, Abeer Abdelsamad, Afrah Al Otebi, Sh

## 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 skill and knowledge necessary to meaningtully contribute to and to grapple with 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 SOCIOLOG

## About the Sociology Program

The mission of the program is to train students in the foundational methods and theories integral to sociolog 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 derstanding of the local region, while also producing diversity and other ways of living

## objectives

The major in Sociology strives to:
Equip students with methods for gathering and analyzing ystematically derived field-based data.
Develop students' understanding of basic social science Provepts
Provide students with the ethical foundation for explain societal patterns or problems. uniformity and diversity observable in socio-cultural orders.

## Learning Outcome

Upon completion of the major, students will be able to: ex
explyze Quantita and cultural issues and qualitative data related to social issues.
Design appropriate data Collection strategies to conduc ociological research
Apply international sociological code of ethics Support social and culture diversity.

## Opportunities

Graduates in Sociology find employment in government agencies, non-governmental organizations, internation 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 equirements including the minimum high school percentage requirement.
Detailed Undergraduate admission requirements are available at the following link: http://www.qu.edu.qa students/admission/undergraduates.php

Declaring the major
Students must satisfy QU requirements for declaring major including the need to declare the major befo 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
m of 120 credit hours are required to complet
he major in Sociology, including the following:
A minimum of 33 credit hours in Core Curriculum
equirements
A minimum of 24 credit hours in Major Requirements
A minimum of 27 credit hours in Major Electives
A minimum of 24 credit hours in Minor Requirements

$$
\begin{aligned}
& \text { A minimum of } 24 \text { creadt hours in Minor Requreer } \\
& \text { A minimum of } 12 \text { credit hurs in Free Electives }
\end{aligned}
$$

## Core Curriculum Program ( 33 CH )

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

## Social/Behavioral Sciences package (3 $\mathbf{C H}$ )

Ourle in the CCP defined SocialBehavioral 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 )
ourses in the CCP defined Natural Science/Mathematics package

## Supplemental College / Program core requirements

 package ( 9 CH )ENGL 250 English for Communication
ENGL 251 English for Communication
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)
tudents must complete a minimum of 3 CH taken from
he following courses:
SOCI 121 Introductio

Major Requirements II package ( 21 CH )
Students must complete a minimum of 21 credit hours in
he major requirements II package courses:
SOCI 261 Quantitative Methods
SOCI 262 Qualitative Methods
SOCI 361 Human Rights
SOCI 460 Statistics in the Social Sciences
SOCI 462 Change in Contemporary Arab Society
SOCI 469 Research Project

## Major Electives ( 27 CH )

Students must complete a minimum of 27 credit hours in Major electives courses, including a minimum of 3 credit package 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 package courses
SOCI 263 Badawi Society
SOCI 362 Comparative Ethnography
SOCI 363 Ethnicity
SOCl 464 Sabor and Class in Petrol Societies

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
nd Migration
SOCI 267 Urban Studies
SOCI 268 Culture, Health and Diseas
SOCI 364 Violence
SOCI 365 Study of Gender
SOCI 366 Language, Communication and Society
SOCI 367 Comparative Religion
SOCI 368 Law and Society
SOCI 465 Industrial Organization and Work
SOCI 466 Social, Religious, and Political Movements
SOCI 467 Globalization
SOCI 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 tudents enrolled in is less than 24 CH , students must tak equirements.

## Free Electives ( 12 CH )

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

## MINOR IN SOCIOLOGY

Students pursuing a minor in Sociology will have an
opportunity to learn about social phenomena which opportunity to learn about social phenomena which
influence human action within society. The minor wil 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 120 Introduction to Sociology

SOCI 261 Quantitative Methods
SOCI 262 Qualitative Methods

- sOCI 360 Sociological Theory


## Minor Electives ( 12 CH )

Students must complete a minimum of 12 credit hours in
Minor electives courses:
-SOCI 121 Introduction to Anthropology
SOCI 200 Sustainable Development
SOCI 263 Badawi Society

- SOCI 264 Family and Kinship

SOCI 265 Population and Migration
SOCI 267 Urban Studies
SOCI 268 Culture, Health and Disease
SOCI 361 Human Rights
SOCI 362 Comparative Ethnography
SOCI 364 Violence

- SOCI 365 Study of Gender

SOCI 366 Language, Communication and Society -SOCI 367 Comparative Religion

SOCI 368 Law and Society
SOCI 460 Statistics in the Social Sciences SOCl 462 Change in Contemporary Arab Society SOCI 464 Social Policy and Planning SOCI 465 Industrial Organization and Work - SOCI 466 Social, Religious, and Political Movements

Study Plan for Sociology
Bachelor of Arts in Sociology


SECOND YEAR (30 credit hours)

| Term | Course \# | Course Title | Credit Hours |
| :---: | :---: | :---: | :---: |
| Fall |  | Minor Course/Minor Elective (1) | 3 |
|  | SOCI 261 | Quantitative Methods | 3 |
|  |  | Core Curriculum Course | 3 |
|  |  | Core Curriculum Course | 3 |
|  |  | Minor Course/Minor Elective (2) | 3 |
| Total Credit Hours in Semester |  |  | 15 |
| Spring | SOCI 262 | Qualitative Methods | 3 |
|  |  | Major Elective (1) | 3 |
|  |  | Minor Course/Minor Elective (3) | 3 |
|  |  | Free Elective (3) | 3 |
|  |  | Minor Course/Minor Elective (4) | 3 |
|  | tal Credit | ours in Semester | 15 |


| THIRD YEAR (30 credit hours) |  |  |  |
| :---: | :---: | :---: | :---: |
| Term | Course \# | Course Title | Credit Hours |
| Fall | SOCI 360 | Sociological Theory | 3 |
|  |  | Major Elective (2) | 3 |
|  |  | Core Curriculum Course | 3 |
|  |  | Minor Course/Minor Elective (5) | 3 |
|  |  | Minor Course/Minor Elective (6) | 3 |
| Total Credit Hours in Semester |  |  | 15 |
| Spring | SOCI 361 | Human Rights | 3 |
|  |  | Core Curriculum Course | 3 |
|  |  | Major Elective (3) | 3 |
|  |  | Major Elective (4) | 3 |
|  |  | Minor Course/Minor Elective (7) | 3 |
| Total Credit Hours in Semester |  |  | 15 |

## FOURTH YEAR (30 credit hours)

| Term | Course \# | Course Title | Credit Hours |
| :---: | :---: | :---: | :---: |
| Fall | SOCI 460 | Statistics in the Social Sciences | 3 |
|  | SOCI 462 | Change in Arab Society | 3 |
|  |  | Major Elective (5) | 3 |
|  |  | Major Elective (6) | 3 |
|  |  | Minor Course/Minor Elective (8) | 3 |
| Total Credit Hours in Semester |  |  | 15 |
| Spring | $\begin{array}{\|l\|} \hline \text { SOCl 461/ } \\ 469 \end{array}$ | Honor's Thesis Research Project | 3 |
|  |  | Major Elective (7) | 3 |
|  |  | Major Elective (8) | 3 |
|  |  | Major Elective (9) | 3 |
|  |  | Free Elective (4) | 3 |
| Total Credit Hours in Semester |  |  | 15 |

## BACHELOR OF ARTS IN SOCIAL WORK

About the Social Work Program
The Program's mission is to develop generalist social workers who will be strategic thinkers, life-long learners
and opinion shapers. The knowledge-base, skills, and values necessary for entry-level generalist social work practice will be taught in an environment that fosters sensitivity and integration of Qatari culture, professiona development, critical thinking, and leadership and will prepare students to take appropriate action guided by the

## 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-inable 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
- 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:

- Recognize the role of culture in the context of social work
- Apply basic social wor Ethics in social work practice
- Apply strategies to respond to local and global community socio economic needs
- Apply basic research skills to social work issues - Develop effective communication skills important for social work practice


## Opportunities

Job opportunities abound in Qatar for social work majors. Social Work graduates might work with children, families, adults, elders, 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 the minimum high school percentage requirement and pass a department-based
interview and a written test
Detailed Undergraduate admission requirements ar vailable at the following link: http://www.qu.edu.qa tudents/admission/undergraduates.php

## 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 minimum of 9 CH in the core curriculum program

## 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
equirements
A minimum of 54 credit hours in Major Requirements
A minimum of 18 credit hours in Major Supporting

- 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
ARAB 200 Arabic Language II

- 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 Students must complete a minimum of 3 Credit Hours fro part of the Humanities/Fine Arts package.

Natural Science/Mathematics package (3 $\mathbf{C H}$ )
Courses in the CCP defined Natural Science/Mathematics package
Supplemental College / Program core requirements
package ( 9 CH )
ENGL 250 English for Communication !
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
位 311 Social Work and Law
SOWO 320 Human Behavior and Social Environment I SOWO 321 Human Behavior and Social Environment SOWO 330 Social Welfare Policy and Services I
SOWO 350 Social Work Generalist Practice
SOWO 360 Social Work Research Methods I
SOWO 370 Children and Family Practice \& Services
SOWO 410 Social Werk Research Methods II
SOWO 420 Social Work Generalist Practice II
SOWO 430 Social Work Generalist Practice III
SOWO 440 Integrative Seminar
SOWO 441 Social Work Practicum

## Major Electives ( 9 CH )

Students must complete a minimum of 9 credit hours in
Major electives courses:
SOWO 301 Medical Social Work
SOWO 302 Mental Health Social Work
SOWO 302 Mental Health Social
SOWO 303 School Social Work

- SOWO 361 Society and Human Rights


## Major Supporting Requirements ( 18 CH )

Students must complete a minimum of 18 credit hours in
Major supporting required courses:
BIOL 110 Human Biology
PSYC 201 Fundamentals of Psychology
PSYC 206 Introduction to Social Psychology
SOCI 200 Sustainable Developmen
STAT 101 Statistics I

## Free Electives ( $6 \mathbf{C H}$ )

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) |  |  |  |
| :---: | :---: | :---: | :---: |
| Term | Course \# | Course Title | Credit Hours |
| Fall |  | Core Curriculum Course | 3 |
|  |  | Core Curriculum Course | 3 |
|  |  | Core Curriculum Course | 3 |
|  |  | Core Curriculum Course | 3 |
|  | SOWO 101 | Intro to Social Work \& Social Welfare | 3 |
| Total Credit Hours in Semester |  |  | 15 |
| Spring |  | Core Curriculum Course | 3 |
|  |  | Core Curriculum Course | 3 |
|  |  | Core Curriculum Course | 3 |
|  |  | Core Curriculum Course | 3 |
|  |  | Core Curriculum Course | 3 |
| Total Credit Hours in Semester |  |  | 15 |


| SECOND YEAR (30 credit hours) |  |  |  |
| :---: | :--- | :--- | :---: |
| Term | Course \# | Course Title | Credit <br> Hours |
| Fall |  | Core Curriculum Course | 3 |
|  |  | Core Curriculum Course | 3 |
|  |  | Free Elective (1) | 3 |
|  | SOCI 120 | Intro to Sociology | 3 |
|  | PSYC 201 | Fundamentals of <br> Psychology | 3 |
| Total Credit |  |  |  |
| Spours in Semester | 15 |  |  |
|  |  | Major Elective (1) | 3 |
|  | BIOL 110 | Human Biology | 3 |
|  | PSYC 206 | Introduction to Social <br> Psychology | 3 |
|  | STAT 101 | Intro to Statistics | 3 |
|  | SOCI 200 | Sustainable Development | 3 |
| Total Credit Hours in Semester |  |  |  |


| Term | Course \# | Course Title | Credit Hours |
| :---: | :---: | :---: | :---: |
| Fall |  | Major Elective (2) | 3 |
|  | Sowo 311 | Social \& Cultural Diversity | 3 |
|  | sowo 320 | Human Behavior \& Social Environment I | 3 |
|  | sowo 330 | Social Welfare Policy and Services I | 3 |
|  | SOWO 350 | Social Work Generalist Practice I | 3 |
| Total Credit Hours in Semester |  |  | 15 |
| Spring | SOWO 200 | Social Work \& the Law | 3 |
|  | SOWO 370 | Children \& Family Practice \& Services | 3 |
|  | Sowo 321 | Human Behavior \& Social Environment II | 3 |
|  | SOWO 400 | Social Welfare Policy and Services II | 3 |
|  | SOWO 420 | Social Work Generalist Practice II | 3 |
| Total Credit Hours in Semester |  |  | 15 |


| FOURTH YEAR ( 30 credit hours) |  |  |  |
| :---: | :---: | :---: | :---: |
| Term | Course \# | Course Title | Credit Hours |
| Fall |  | Major Elective (3) | 3 |
|  |  | Free Elective (2) | 3 |
|  | Sowo 430 | Social Work Generalist Practice III | 3 |
|  | sowo 360 | Social Work Research Methods I | 3 |
| Total Credit Hours in Semester |  |  | 12 |
| Spring | SOWO 440 | Integrative Seminar | 3 |
|  | Sowo 410 | Social Work Research Methods II | 3 |
|  | Sowo 441 | Social Work Practicum | 12 |
| Total Credit Hours in Semester |  |  | 18 |

## BACHELOR OF ARTS IN PSYCHOLOG

## About the Psychology Program

The mission of the Psychology Program is to provide students with high quality education by engaging them thinking, effective communication, and consensus building skills. The program prepares students to lead successful careers in psychology, including careers in teaching, research and clinical services and enables them to pursue their studies beyond the baccalaureate degree.

## Objectives

Students who complete the Psychology Program will: - Demonstrate familiarity with the major concepts, theoretical perspectives, empirical findings, and historical rends in psychology
Understand and apply basic research methods in psychology, including research design, data analysis, and interpretation
Respect and use critical and creative thinking, skeptical inquiry, and, when possible, the scientific approach to - Understand and apply psychological principles to personal, social, and organizational issues

- Be educated about weighing evidence, tolerate ambiguity, act ethically, and reflect other values that are the underpinnings of psychology as a field of study. Receive the needed training to be able to demonstrate ind twenty first century information tochnology Be trained to communicate effectively in a variety formats. Be provided with the needed skills to recognize, understand, and respect the complexity of sociocultura and international diversity.
- Receive help in developing insight into their own and others' behavior and mental processes and apply effectiv Have enhanced capacities with respect to how to mplement their psychological knowledge, skills, and values in occupational pursuits in a variety of settings.

Learning Outcomes
Upon completion of the major, students will be able to: Explain why psychology is a science.
Identify and explain the primary objectives of psychology: describing, understanding, predicting, and controlling ehavere and contrast the ass.

$$
\begin{aligned}
& \text { - Compare and contrast the assumptions and methods of } \\
& \text { psychology with those of other disciplines. }
\end{aligned}
$$

$$
\begin{aligned}
& \text { psychology with those of other disciplines. } \\
& \text { - Describe how various research designs address differen }
\end{aligned}
$$

ypes of questions and hypotheses.
designs, including distinguishing between qualitative and quantitative methods.

- Recognize that theoretical and sociocultural contexts as design, data collection, analysis, and interpretation
- Locate and use relevant databases, research, and theory
to plan, conduct, and interpret results of research studies.
- Demonstrate the ability to understand the stages of
human development and the practical skills needed
apply this understanding to their professional work.
- Demonstrate the ability to understand individual
differences, including the challenges facing individuals with disabilities.
persistence, open-mindedness, tolerance for ant includes and intellectual engagement.
- Use scientific principles and evidence to resolve
conflicting claims.
- Develop sound arguments based on reasoning and


## evidence.

- Identify appropriate applications of psychology in solving problems related to psychological tests and
measurements, psychology-based interventions in clinical, counseling, educational, industrial/organizational, community, and other settings and their empirical evaluation and the resolution of interpersonal and intercultural conflicts.
- Demonstrate proficiency in counseling and therapeutic techniques, including intervention techniques. Demonstare tapacily psychological challenges facing their clients.


## 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 psychologica help for children, families, couples, and groups in different settings. Opportunities also exist for psychologists to work including hospitals and mental health agencies.

## Admissions Requirements

Applicants must satisfy QU defined College and Program requirements 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/ students/admission/undergraduates.php

## 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 aequirements with a minimum cumulative GPA of 200

## 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
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 )
ARAB 200 Arabic Language II
ENGL 110 English !
ENGL 111 English II

- DAWA 111 Islamic Culture

Social/Behavioral Sciences package ( 3 CH ) Any Course in the CCP defined Social/Behaviora 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) Any Course in the CCP defined Natural Science Mathematics package

## Supplemental College / Program Co

Requirements package (9 CH)
ENGL 250 English for Communication I ENGL 251 English for Communication II UNIV 110 First Year Seminar

## Major Requirements ( 36 CH )

tudents must complete the following course PSYC 201 Fundamentals of Psychology PSYC 203 Health Psychology PSYC 221 Research Design and Stactistics - PSYC 300 Psychology of Personality PSYC 301 Developmental Psychology - PSYC 303 Abnormal Psychology

PSYC 304 Cognitive Psychology
PSYC 400 Principles of Cognitive
PSYC 400 Principles of Cognitive Behavioural Therapy
PSYC 401 Psychological Helping Skills

- 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
ourses selected from the following:
PSYC 402 Counseling Over the Lifespan
PSYC 404 Psychology of Family Relation
PUBH 202 Health Behavior and Society
SOCI 262 Qualitative Methods
SOCI 365 Study of Gender
SPSC 308 Sport Psychology

## Minor Requirements ( 24 CH )

Students enrolled in the Psychology program may take any
of the Minors offered within the university. If the minor the
students enrolled in is less than 24 credit hours, students
and aditional 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 Fre Electives from courses outside the
Psychology major, 6 of which must be in 300 -level course or above.

## MINOR IN PSYCHOLOGY

The minor in Psychology is designed to provide student with an introduction to the field of psychology and 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 equirements for declaring a minor

## Minor in Psychology

A minimum of 24 credit hours are 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 303 Abnormal Psychal Psyology

- PSYC 304 Cognitive Psychology


## Minor Electives ( $6 \mathbf{C H}$ )

Students must complete a minimum of 6 credit hours in courses selected from the following:
PSYC 306 Emotion and Motivation
PSYC 401 Psychological Helping Skill

- PSYC 404 Psychology of Family Relations

Study Plan for Psychology


| SECOND YEAR ( 30 credit hours) |  |  |  |
| :---: | :---: | :---: | :---: |
| Term | Course \# | Course Title | Credit Hours |
| Fall | PSYC 203 | Health Psychology | 3 |
|  |  | Major Elective 1 | 3 |
|  |  | Free elective 3 | 3 |
|  |  | Core Curriculum course | 3 |
|  |  | Core Curriculum course | 3 |
| Total Credit Hours in Semester |  |  | 15 |
| Spring | PSYC 206 | Introduction to Social Psychology | 3 |
|  | PSYC 221 | Research Design and Statistics | 3 |
|  |  | Core Curriculum course | 3 |
|  |  | Major Elective 2 | 3 |
|  |  | Minor 1 | 3 |
|  | Total Credit Hours in Semester |  | 15 |


| FOURTH YEAR (30 credit hours) |  |  |  |
| :---: | :---: | :---: | :---: |
| Term | Course \# | Course Title | Credit Hours |
| Fall | PSYC 400 | Principles of Cognitive Behavioral Therapy | 3 |
|  | PSYC 401 | Psychological Helping Skills | 3 |
|  | PSYC 403 | Psychophysiology | 3 |
|  |  | Minor 5 | 3 |
|  |  | Minor 6 | 3 |
| Total Credit Hours in Semester |  |  | 15 |
| Spring | PSYC 405 | Practicum | 6 |
|  | PSYC 406 | Capstone | 3 |
|  |  | Minor 7 | 3 |
|  |  | Minor 8 | 3 |
|  | Total Credit Hours in Semester |  | 15 |

## department of biological and <br> MENTAL SCIENCES

College of Arts and Sciences Building
Rooms C218, C219 (Women's Section) and B107 (Men's ection)
(974) 4403-4570 / 453

Website: http://www.qu.edu.qa/artssciences/bioenvi/

## ting Head

## atima

## Faculty

Professors:
Abdel Aziz S. El-Bayoumi, Samir Mohamed Jaoua, Nabil Zouri, Ipek Goktepe Allal Ouhti
Associate Professors:
alaat Abdel-Fattah Ahmad, Jassim A. Al-Khayat, Roda Fahad Al-Thani, Ali Hussein Eid, Dr Mohammad Al-Ghouti, Mohammed Abu Dieyeh, Said Sif

## Assistant Professors

Khalid Abdulla AI-Ali, Ibrahim M. Al Ansari, Mohsin AIAnsi, Fahad H. Al-Jamali, Ibrahim A. AI Maslamani, Abdul Rahman M. A. Al-Muftah, Hamda A. Al-Naemi, Nobuyuki Yamaguchi; Fatima AlNaemi; Yousra Sulaiman AI-Faham; ariam Al-Murtah,, Radouan Be Mizanur

## Lecturers:

Mahmoud M. Kardousha, Perumal Balakrishnan, Fatima A. Al-Khayat

## eaching Assistants

Abdul Rahman Mahjoub Osman;; Huda Essa Al-Muraikhi; Hayat Al-Jabri; Ghada Al Mahmoud, Radoslaw Stefan

## ABOUT THE DEPARTMENT

The Department offers four programs of study, two Graduate Programs of respectively PhD in Biological \& Graduate Programs of respectively End in entalogical \& wo Undergraduate Programs of respectively B.Sc. in in Biological \& Environmental Sc. provides students with the most advanced research skills enabling them to carry out research independently, publishing and showing novations and creativity. The M.Sc. in Environmenta
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 ciences is designed in such a way as to provide proper raining and qualification in modern biology, meeting the unprecedented advancement in the field and responding to he needs and aspiration of the Qatari society
he B.Sc. in Environmental Science is an accredited and the first program at Qatar. It is developed to address environment of Qatar, and the region, as well as imm nd consequential projected needs of stakeholders. All these 4 programs create an exciting and excellent Teaching and Research environment.

## bachelor of science in biological sciences

## bjectives

The major in Biological Sciences aims to:
Develop an understanding of the principles of biological
Provide students with intensive laboratory and field experiences.
Carry out basic and applied research in biological
ciences.
Enhance student abilities to communicate effectively in Enhance studen
biological issues.

## Learning Outcomes

Graduates of the Biological Sciences major will be able to Define structure and function of organisms.
Describe ecological systems
Understand the nature and use of molecular tools. Engage in critical thinking on problem solving activities on a biological topic.
Demonstrate proficiency in written by giving concise,
lear and organized written communication about a
iological concept.
Demonstrate proficiency in oral communication by giving oncise, clear, and organized oral presentations on a biological topics.

## Opportunities

Graduates in Biological Sciences find employment in overnment agencies, non-governmental organizations, aboratories

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

Detailed Undergraduate admission requirements are vailable at the following link: http://www.qu.edu.qa/ adents/admission/undergraduates.php

## Declaring the major

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

## DEGREE REQUIREMENTS

## Major in Biological Sciences

A minimum of 120 credit hours are required to complete Ae major in Biological Sciences, including the following A minimum of 33 credit hours in Core Curriculum
equirements
A minimum of 24 credit hours in Major Requirements
A minimum of 21 credit hours in Major Supporting
equirements
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.
Watural 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 ourses 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

Courses in the CCP defined General Knowledge package

## General Skills package (3 CH )

## Course in the CCP defined Geral Skills package.

## Major Requirements ( 24 CH )

Students must complete a minimum of 24 credit hours in
Major required courses
BIOL 101 Biology I
BIOL 221 Basic Ecology
BIOL 241 Microbiology
BIOL 311 Molecular Biology
BIO 62 Anima Anatomy \& Physiology
BIOL 362 Animal Anatomy \& Physiology

Major Supporting Requirements (21 CH)
Students must complete a minimum of 21 credit hours in
major supporting requirements:
CHEM 103 Experimental General Chemistry I
CHEM 209 Fundamentals in Organic Chemistry
CHEM 351 Basic 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 )

tudents must complete a minimum of 24 credit hours in
ajor elective courses:
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 444 Immunology
BIOL 451 Cell \& Tissue Culture

## Minor Requirements ( $\mathbf{1 8} \mathbf{C H}$ )

Students enrolled in the Biological Sciences program mus complete the minor in Chemistry to satisfy the program degree requirements.

MINOR IN BIOLOGICAL SCIENCES
The Department of Biological and Environmental Science 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 re 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
ollowing:
minum of 12 credit hours in Minor Requirements

## Minor Requirements (12 CH)

Students must complete a minimum of 12 credit hours in
Minor required courses:
BIOL 101 Biology I
BIOL 102 Biology II
RIOL 241 Microbiology
Minor Electives (6 CH)
Students must complete a minimum of 6 credit hours in
Minor electives courses:
BIOL 211 Cell Biology
BIOL 212 Genetics
BIOL 311 Molecular Biology
BIOL 321 Principles of Environmental Biology
BIOL 344 General Parasitolog
BIOL 444 Immunology

Study Plan for Biological Science
Bachelor of Science in Biological Sciences

| FIRST YEAR (32 credit hours) |  |  |  |
| :---: | :---: | :---: | :---: |
| Term | Course \# | Course Title | Credit Hours |
| Fall | ARAB 100 | Arabic Language 1 | 3 |
|  | ENGL 202 | English Language 1 (Post Foundation) | 3 |
|  | DAWA 111 | Islamic Culture | 3 |
|  | BIOL 101 | Biology I | 3 |
|  | CHEM 101 | General Chemistry I | 3 |
|  | CHEM 103 | Experimental General Chemistry I | 1 |
| Total Credit Hours in Semester |  |  | 16 |
| Spring | ARAB 200 | Arabic Language 2 | 3 |
|  | ENGL 203 | English Language 2 (Post Foundation) | 3 |
|  | BIOL 102 | Biology II | 3 |
|  | CHEM 102 | General Chemistry II | 3 |
|  | CHEM 104 | Experimental General Chemistry II | 1 |
|  | MATH 101 | Calculus I | 3 |
|  | Total Credit Hours in Semester |  | 16 |


| THIRD YEAR (32 credit hours) |  |  |  |
| :--- | :--- | :--- | :--- |
| Term | Course \# | Course Title | Credit <br> Hours |
| Fall | BIOL 362 |  <br> Physiology | 3 |
|  | BIOL | Major Elective | 3 |
|  | CHEM | Minor Elective | 3 |
|  | CHEM | Minor Elective | 2 |
|  | BIOL | Major Elective | 3 |
|  | CC <br> Elective | Core Curriculum Elective | 3 |
|  | Total Credit Hours in Semester |  |  |  |


| Term | Course \# | Course Title | Credit Hours |
| :---: | :---: | :---: | :---: |
| Fall | BIOL 221 | Basic Ecology | 3 |
|  | BIOL 241 | Microbiology | 3 |
|  | CHEM 209 | Fundamentals in Organic Chemistry | 3 |
|  | PHYS 110 | General Physics for Biology | 3 |
|  | BIOL | Major Elective | 3 |
|  | PHYS 111 | Practical Physics for Biology | 1 |
| Total Credit Hours in Semester |  |  | 16 |
| Spring | BIOL311 | Molecular Biology | 3 |
|  | BIOL 212 | Genetics | 3 |
|  | CHEM | Minor Elective | 3 |
|  | CHEM 351 | Basic Biochemistry | 3 |
|  | CHEM 352 | Experimental Biochemistry | 1 |
|  | STAT 151 | Introduction to Applied Statistics | 3 |
|  | Total Credit Hours in Semester |  | 16 |


| FOURTH YEAR (24 credit hours) |  |  |  |
| :---: | :---: | :---: | :---: |
| Term | Course \# | Course Title | Credit Hours |
| Fall | BIOL | Major Elective | 3 |
|  | BIOL | Major Elective | 3 |
|  | CC Elective | Core Curriculum Elective | 3 |
|  | $\begin{array}{\|l} \hline \text { CC Elec- } \\ \text { tive } \end{array}$ | Core Curriculum Elective | 3 |
|  | BIOL 497 | Research Project | - |
| Total Credit Hours in Semester |  |  | 12 |
| Spring | BIOL | Major Elective | 3 |
|  | CHEM | Minor Elective | 3 |
|  | CC Elective | Core Curriculum Elective | 3 |
|  | BIOL 497 | Research Project (continued) | 3 |
|  | Total Credit Hours in Semester |  | 12 |

## BACHELOR OF SCIENCE IN ENVIRONMENTAL

 SCIENCE
## Objectives

The major in Environmental Science strives to: - Possess the fundamental knowledge of areas of environmental science
environmental research techniques used in
environmental research science.

- Develop high levels of communication skills
- Turrent with advances in environmental science 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 analyze, evaluate and interpret data.
- Employ scientific approaches in interdisciplinary research in a safe and ethical manner, and to be aware of risk assessment, health and safety regulations as well as nvironmental 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 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 include but are not limited to: Environmental Sustainability, Environmental Protection (Conservation Management), Environmental Control, Environmental Risk Management Urban and Environmental Planning, Marine Environmental

Science, Environmental Chemistry, Environmental Technology, Marine Biology, Water Resource(s) (Management),
earch in either
Biotechnology or Marine Sciences.
mployment Options
Ministry of Environment
Industry (Qatar Petroleum, Ras Gas, Shell, and others) - Ministry of Municipal and Urban planning Kahrama
Research Labs

- 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 equirement.
addition, applicants must hold a General Secondary Education Cor or its equivalent for students of the scientific discipline.
Detailed Undergraduate admission requirements are available the following link: http://www.qu.edu.qa/students/admission undergraduates.php

## Declaring the major

Students must satisfy QU requirements for declaring a majo including the need to declare the major before completing in Environmental Science must have completed a minimum of 9 CH in the core curriculum program requirements with a minimum cumulative GPA of 2.00 including BIOL 101 course.

## DEGREE REQUIREMENTS

## Major in Environmental Science

A minimum of 126 credit hours (CH) are required to complete the major in Environmental Science with concentration in Biotechnology. A minimum of 125 credit hours 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 equirements.
A minimum of 54 credit hours in Major Requirements. A minimum of 9 credit hours in Major electives. A minimum of 15 credit hours in major supporting A minimum of 14 or 15 credit hours in concentration equirements: A minimum of 15 credit hours for the concentration in Biotechnology and a minimum of 14 cred
hours for the concentration in Marine Sciences
Core Curriculum Requirements ( 33 CH )

## tudents must complete a minimum of 33 credit hours

 Core Curriculum requirements
## Common package ( 15 CH ) <br> ARAB 100 Arabic Language

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 the CCP defined Social/Behavioral Sciences package.


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

## Humanities /Fine Arts package (3 $\mathbf{C H}$ )

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 Semin

## General Knowledge package (3 CH )

SOCI 200 Sustainable

## General Skills package (3 CH )

Courses in the CCP-defined General Skills package.

## Major Requirements ( 54 CH )

udents must complete a minimum of 54 credit hours in
ajor required courses:
BIOL 102 Biology I 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
CHME 276 Principles of Environmental Chemistry
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

## Major Electives (9 CH)

Students must complete a minimum of 9 credit hours in Majo electives courses:
BIOL 212 Genetics
BIOL 312 Histology
BIOL 344 General Parasitology
BIOL 346 Environmental Health
BIOL 362 Animal Anatomy and Physiogy
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 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 103 Experimental General Chemistry I
CHEM 104 Experimental General
PHYS 110 General Physics for Biology
PHYS 111 Practical Physics for Biolog
STAT 151 Introduction to Applied Statistics
Concentration in Biotechnology ( 15 CH )
Students must complete a minimum of 15 CH in concentratio 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 equirements.
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 - Marine Sciences
Study Plan for Environmental Science - Biotechnology

| FIRST YEAR (32 credit hours) |  |  |  |
| :---: | :---: | :---: | :---: |
| Term | Course \# | Course Title | Credit Hours |
| Fall | ARAB 100 | Arabic Language 1 | 3 |
|  | ENGL 202 | English Language 1 (Post Foundation) | 3 |
|  | SOCI 200 | Sustainable Development (E) | 3 |
|  | BIOL 101 | Biology I | 3 |
|  | CHEM 101 | General Chemistry I | 3 |
|  | CHEM 103 | Experimental General Chemistry 1 | 1 |
| Total Credit Hours in Semester |  |  | 16 |
| Spring | ARAB 200 | Arabic Language 2 | 3 |
|  | ENGL 203 | English Language 2 (Post Foundation) | 3 |
|  | BIOL 102 | Biology II | 3 |
|  | CHEM 102 | General Chemistry II | 3 |
|  | CHEM 104 | Experimental General Chemistry II | 1 |
|  | MATH 101 | Calculus I | 3 |
|  | BIOL 103 | Freshman Seminar Environmental Science |  |
| Total Credit Hours in Semester |  |  | 16 |


| Term | Course \# | Course Title | Credit Hours |
| :---: | :---: | :---: | :---: |
| Fall | BIOL 221 | Basic Ecology | 3 |
|  | MARS 101 | Introduction to Marine Sciences | 3 |
|  | PHYS 110 | General Physics for Biology | 3 |
|  | PHYS 111 | Practical Physics for Biology | 1 |
|  | DAWA 111 | Islamic Culture | 3 |
|  | GEOG 442 | Environment and Pollution (E) | 3 |
| Total Credit Hours in Semester |  |  | 16 |
| Spring | BIOL 241 | Microbiology | 3 |
|  | MARS 251 | Marine Biology | 3 |
|  | GENG 107 | Engineering Skills and Ethics | 3 |
|  | STAT 151 | Introduction to Applied Statistics | 3 |
|  | CHEM 275 | Principles of Environmental Chemistry | 3 |
|  | CC Elective | Core Curriculum Elective | 3 |
| Total Credit Hours in Semester |  |  | 18 |


| THIRD YEAR ( 33 credit hours) |  |  |  |
| :---: | :---: | :---: | :---: |
| Term | Course \# | Course Title | Credit Hours |
| Fall | BIOL 310 | Molecular Cell Biology | 3 |
|  | BIOL 322 | Desert Biology | 3 |
|  |  | Major Elective | 3 |
|  | HIST 121 | History of Qatar | 3 |
|  | CC Elective | Core Curriculum Elective | 3 |
| Total Credit Hours in Semester |  |  | 15 |
| Spring | BIOL 443 | Biotechnology and Bioremediation | 3 |
|  | MARS 459 | Environmental Impact Assessment | 3 |
|  |  | Major Elective | 3 |
|  | CVEN 352 | Waste Management | 3 |
|  | LAWC 449 | Environmental Law \& Regulations | 3 |
|  | CC Elective | Core Curriculum Elective | 3 |
|  | Total Credit Hours in Semester |  | 18 |


| FIRST YEAR ( 32 credit hours) |  |  |  |
| :---: | :---: | :---: | :---: |
| Term | Course \# | Course Title | Credit Hours |
| Fall | ARAB 100 | Arabic Language 1 | 3 |
|  | ENGL 202 | English Language 1 (Post Foundation) | 3 |
|  | SOCI 200 | Sustainable Development(E) | 3 |
|  | BIOL 101 | Biology I | 3 |
|  | CHEM 101 | General Chemistry I | 3 |
|  | CHEM 103 | Experimental General Chemistry 1 | 1 |
| Total Credit Hours in Semester |  |  | 16 |
| Spring | ARAB 200 | Arabic Language 2 | 3 |
|  | ENGL 203 | English Language 2 (Post Foundation) | 3 |
|  | BIOL 102 | Biology II | 3 |
|  | CHEM 102 | General Chemistry II | 3 |
|  | CHEM 104 | Experimental General Chemistry II | 1 |
|  | MATH 101 | Calculus I | 3 |
|  | BIOL 103 | Freshman Seminar Environmental Science |  |
|  | Total Credit Hours in Semester |  | 16 |



| SECOND YEAR (34 credit hours) |  |  |  |
| :---: | :---: | :---: | :---: |
| Term | Course \# | Course Title | Credit Hours |
| Fall | BIOL 221 | Basic Ecology | 3 |
|  | MARS 101 | Introduction to Marine Sciences | 3 |
|  | PHYS 110 | General Physics for Biology | 3 |
|  | PHYS 111 | Practical Physics for Biology | 1 |
|  | CHEM 275 | Principles of Environmental Chemistry | 3 |
|  | GEOG 442 | Environment and Pollution (E) | 3 |
| Total Credit Hours in Semester |  |  | 16 |
| Spring | BIOL 241 | Microbiology | 3 |
|  | MARS 251 | Marine Biology | 3 |
|  | MARS 222 | Chemical Oceanography | 3 |
|  | GENG 107 | Engineering Skills and Ethics | 3 |
|  | STAT 151 | Introduction to Applied Statistics | 3 |
|  | CC Elective | Core Curriculum Elective | 3 |
| Total Credit Hours in Semester |  |  | 18 |
| FOURTH YEAR (24 credit hours) |  |  |  |
| Term | Course \# | Course Title | Credit Hours |
| Fall | BIOL 345 | Health, Safety and Environment | 3 |
|  | BIOL 422 | Environmental Management and Conservation | 3 |
|  | CVEN 342 | Water Resources and Management | 3 |
|  | CHME 361 | Petroleum and Gas Technologies | 3 |
|  | BIOL496 | Research Project | - |
| Total Credit Hours in Semester |  |  | 12 |
| Spring | MARS 458 | Fisheries and Aquaculture | 3 |
|  |  | Major Elective | 3 |
|  |  | Major Elective | 3 |
|  | BIOL496 | Research Project (continued) | 3 |
|  | Total Credi | s in Semester | 12 |

## SUMMER (after the third year) ( 0 credit hours) <br> BIOL 399 Internship <br> Total Credit Hours in Semester

## EEPARTMENT OF CHEMISTRY AND EARTH

 CIENCESCollege of Sciences Building, Room B222 (Women's ection)
ollege of Arts and Sciences, Corridor D, Room 121 Men's Section)
hone: (974) 4403-4650/4654/4657
mail: headdepchemistry@qu.edu.qa Website: http

## ead

halid Abdullah Majid Al-Saad

## Faculty

Professors
Hala Sultan Saif AI-Easa, Ibrahim Saleh AI-Naimi (on eave), Jan Cornelis Kwak, Mohammad Mahroof-Tahir, akshmaiah Sreerama, Yousef Hijij, Hani Tabba, Adnan

## Associate Professors:

brahim Ahmad Zainal Al-Ansari, Hamad Abdul-Rahman Al-Saad AI-Kuwari, Amina Sultan Jaber Al- Jaber, Khalid A. Majid Al-Saad, Nessreen Abdulla Al Hashimi (on secondment), Abdulali M. Sadiq, Hassan Ibrahim Nimir


## Assistant Professors

Hezam Yahya Abdulla, Saeed Hashim Al-Meer, Latifa AIaimi, Yasser H. Abdulrazek Hussein, Marwa Mohammed El-Azazy, Mariam M. Al Mulla

## ecturer

Erhan Deniz, Likitha Seneveratne, Mohamed Toussry Abdelnaby, Mohanad Shkoor, Mohamed Moustafa, Kifah Salih

## ABOUT THE DEPARTMENT

Since its establishment in 1973, the Department of Chemistry and Earth Sciences has been graduating students with a B.Sc with a Chemistry major (male and male (made and and is a ming The Geology minor offers introductory courses to aeolog wide variety of students and more advanced courses for students enrolled in the minor. The Chemistry Program also has offered courses to various programs of Qatar University has been serving the Qatari community in
several aspects, e.g. by offering consultations, suggesting solutions for numerous scientific problems, and by holding symposiums and public lectures. The Chemistry faculty
have also been providing special workshops and training or employees in many sectors. The BSc Chemistry Major program is accredited by the Canadian Society for Chemistry since 2009.

The Chemistry program serves the Qatari community in several aspects, e.g. by offering consultations, suggesting olutions for numerous scientific problems, and by holding ymposiums and public lectures. Chemistry faculty employees in many sectors. In addition, many graduates rom the Chemistry program have come to serve as teachers in a number of schools and academic institutions

## ACHELOR OF SCIENCE IN CHEMISTRY

## objectives

Possess a fundamental knowledge of all major areas of modern chemistry
Be proficient in the use of up-to-date laboratory Bhniques.
Possess the knowledge to apply quantitative and omputational methods to practical problems. Become creative researchers and confident problem Polvers.
Practice safe laboratory procedures and assess th nvironmental impact of chemical processes. Understand ethical and professional responsibilities as chemists and as citizens.

## Note Related to Accreditation:

The B.Sc. Chemistry Major Program was first accredited by the Canadian Society for Chemistry, CSC in 2009 and Canadian National Technical Association representing the field of chemistry, chemists in industry, academia and government institutions. The CSC provides accreditation o undergraduate chemistry programs in Canada and abroad. The accreditation process by the CSC involves an extensive review by international experts of the chemistry program and its curriculum, with sufficien aboratory experience along with incorporation of dvanced instrumentation and detailed safety standards. tandards of education by providing an external audit ervice for programs, and by promoting the portability of the qualifications of graduates. Accreditation of the B.Sc. Chemistry Major program implies that the chemistry program at QU meets international standards and
repares competent graduates. Students graduating with he B.Sc. Chemistry major degree, regardless of their Society for Chemistry certitying their graduation from a
CSC accredited program.

## Learning Outc

## Students will

. Demonstrate critical thinking and problem solving skills in the major areas of chemistry
. Apply proper procedures and regulations for safe
andling and use of chemicals and equipment.
design experiments, to properly record the results of thes to experiments and work in teams
4. Use modern literature search methods to obtain
information about chemistry topics and write reports.
5. Conduct research (theoretical or practical) in the field
of chemical sciences and document findings according to
rofessional and ethical standards
Communicate results to chemists and non-chemists.

## pportunities

Qatar Gas
Qatar Petrochemical Company (QAPCO)
Qatar Fertilizer Company (QAFCO)
Qatar Steel Company (QASCO)
Qatar Lubricants Company Limited (QALCO)
Qatar Chemical Company (Q-Chem)
Qatar Fuel Additives Company
Qatar Industrial Manufacturing Company (QIMC
Ministry of Environment
Forensic Department, Interior Security Force
National Health Authority
Ministry of Education
Ministry of Municipal Affairs \& Agriculture Anti-Doping Lab
Ministry of Heath

## Admissions Requirement

Applicants must satisfy QU defined College and Program equirements including the minimum high school ercentage requirement.
Detailed Undergraduate admission requirements are vailable at the following link: http://www.qu.edu.qa/ tudents/admission/undergraduates php
eclaring the major
Students must satisfy QU requirements for declaring major including the need to declare the major before ompleting 36 UG credit hours. In addition, students eclaring a major in Chemistry must have completed
the CHEM 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 equirements
A minimum of 41 credit hours in major Requirements
A minimum of 15 credit hours in major Electives requirements
A minimum of 18 credit hours in minor requirements

## Core Curriculum Program (33 credit hours)

## Common package ( 15 CH )

ARAB 100 Arabic Language I
ENGL 202 English Language I Post Foundation ENGL 203 English Language II Post Foundatio DAWA 111 Islamic Culture

## Social/Behavioral Sciences package (3 CH )

Ourses in the CCP defined SocialBehavioral Sciences package.
umanities /Fine Arts package (3 CH)
Students must complete a minimum of 3 Credit Hours from part of the Humanities/Fine Arts package.

Natural Science/Mathematics package (3 CH) Students must complete a minimum of 3 credit hours from he following courses:

## General Knowledge package (3 CH)

Courses in the CCP defined General Knowledge package.

## Supplemental College / Program core requirement

 package ( 6 CH )tudents must complete a minimum of 6 credit hours from he following courses 101 Biology I
UNIV 100 First Year Semina

## Major Requirements (41 CH)

Students must complete a minimum of 41 credit hours in Major required courses

CHEM 101 General Chemistry I
CHEM 102 General Chemistry II
CHEM 103 Experimental General Chemistry I
CHEM 104 Experimental General Chemistry II
CHEM 212 Organic Chemistry II
CHEM 213 Experimental Organic Chemistry
CHEM 221 Inorganic Chemistry I

- CHEM 222 Experimental Inorganic Chemistry CHEM 231 Analytical Chemistry I
CHEM 234 Experimental Analytical Chemistry
CHEM 242 Experimental Physic
CHEM 331 Analytical Chemistry II Chemistry !
CHEM 341 Physical Chemistry II
CHEM 351 Basic Biochemistry
CHEM 352 Experimental Biochemistry
CHEM 442 Experimental Physical Chemistry II
CHEM 462 Research Project


## Major Electives ( 15 CH )

Students must complete a minimum of 15 credit hours in
CHEM 311 courses:
CM 11 Organic Chemistry III
CHEM 312 Organic Chemistry IV
CHEM 315 Environmental Chemistry
CHEM 321 Inorganic Chemistry II
CHEM 322 Inorganic Chemistry III
CHEM 342 Physical Chemistry III
CHEM 391 Applied Biochemistry

- CHME 431 Petroleum Refining Process

CHME 433 Petrochemical Technology
Major Supporting Requirements (13 CH)

- CMPS 101 Introduction to Computer Scienc
MATH 102 Calculus II
PHYS 101 General Physics I
PHYS 103 General Physics 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 mino the students enrolled in is less than 18 CH , students must ake additional courses as free electives to complete th 8 CH requirements.
It is important to note that only students completing a Nutrition will be eligible to receive a certificate from CSC saying that they have graduated from a CSC accredited program. No certificate will be issued to students completing any other minor to satisfy their program degree

## MINOR IN CHEMISTRY

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

## Declare the minor

Applicants for the minor in Chemistry must satisfy QU Applicants for the minor in Chemistry

## Minor in Chemistry ( 18 credit hours)

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
Minor Required courses (11 CH)
tudents must courses ( 11 Ch) 11 a Minor required courses
CHEM 101 General Chemistry
CHEM 102 General Chemistry
CHEM 103 Experimental General Chemistry
CHEM 104 Experimental General Chemistry II
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 222 Experimental Inorganic Chemistry
CHEM 231 Analytical Chemistry I

- CHEM 234 Experimental Analytical Chemistry

CHEM 241 Physical Chemistry I
CHEM 242 Experimental Physical Chemistry I
CHEM 341 Physical Chemistry II

- CHEM 352 Experimental Biochemistry

CHEM 391 Applied Biochemistry

## MINOR IN GEOLOGY

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

## Declare the minor

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

## Minor in Geology ( 18 credit hours)

students seeking a minor in Geology must complete a
minimum of 18 credit hours (CH), including the following A minimum of 6 credit hours in Minor requirement
A minimum 62 dit hours in Minor electives

## linor Requirements (6 CH)

tudents must complete a minimum of 6 credit hours in
Minor required courses:
GEOL 101 Principles of General Geology
OLtractural Geology and Geotectonics

## Minor Electives ( 12 CH )

minimum of 12 credit hours in
Minor electives courses:
GEOL 201 Crystallography \& Mineralogy
GEOL 211 Principles of Paleontology
GEOL 303 Sediment \& sedimentation
GEOL 322 Survey \& field Geology
GEOL 332 Geophysics
GEOL 401 Geo-chemistry
GEOL 403 Economic Geology
GEOL 411 Geology of Arabian Peninsula and Qata
GEOL 421 Photogeology \& Remote Sensing
GEOL 434 Hydrogeology

Study Plan
Bachelor of Science in Chemistry

| FIRST YEAR (32 credit hours) |  |  |  |
| :---: | :---: | :---: | :---: |
| Term | Course \# | Course Title | Credit Hours |
| Fall | ARAB 100 | Arabic Language I | 3 |
|  | ENGL 202 | English Language I Post Foundation | 3 |
|  | CHEM 101 | General Chemistry I | 3 |
|  | CHEM 103 | Experimental General Chemistry I | 1 |
|  | MATH 101 | Calculus I | 3 |
|  | DAWA 111 | Islamic Culture | 3 |
| Total Credit Hours in Semester |  |  | 16 |
| Spring | ARAB 200 | Arabic Language II | 3 |
|  | ENGL 203 | English Language II | 3 |
|  | CHEM 102 | General Chemistry II | 3 |
|  | CHEM 104 | Experimental General Chemistry II | 1 |
|  | MATH 102 | Calculus II | 3 |
|  | BIOL 101 | Biology I | 3 |
| Total Credit Hours in Semester |  |  | 16 |
| SECOND YEAR (30-31 credit hours) |  |  |  |
| Term | Course \# | Course Title | Credit Hours |
| Fall | CMPS 101 | Introduction to Computer Science | 3 |
|  | CHEM 211 | Organic Chemistry I | 4 |
|  | CHEM 231 | Analytical Chemistry I | 2 |
|  | CHEM 234 | Experimental Analytical Chemistry | 1 |
|  | PHYS 101 | General Physics I | 3 |
|  |  | Minor Course 1 | $3 / 2^{*}$ |
| Total Credit Hours in Semester |  |  | 16/15 |
| Spring | CHEM 212 | Organic Chemistry II | 3 |
|  | CHEM 213 | Experimental Organic Chemistry | 1 |
|  | CHEM 221 | Inorganic Chemistry I | 3 |
|  | CHEM 222 | Experimental Inorganic Chemistry | 1 |
|  | PHYS 102 | General Physics II | 3 |
|  | PHYS 103 | General Physics Lab | 1 |
|  |  | Minor course 2 | 3 |
|  | Total Credit | urs in Semester | 15 |


*Students with the Nutrition minor will take 2 credit courses.

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: $\mathrm{http}: / / w w w . q u . e d u . q a / a r t s s c i e n c e s / m a t h-$
physta/
Head
eena A; Sulaiti

## Faculty

Professors
liham Al-Qaradawi, Ayman Baklizi, Mohammad Salehi, Hussein Al-Qassim, Mohammad Safeer, Mohamed Thair Mustafa and Mohamed Nasser

## Associate Professors:

Ameen Alawneh, Maitha Al-Muraikhi, Modi Al-Nas,
Ameen Alawneh, Maitha Al-Muraikhi, , Modi Al-Nas,
Merabet, , Abouzaid Shalaby, Adil Eltayyeb Yousif, Zead Yousef, Abdelouahed Hamdi, Ahmed Ayaesh, Mohamed Ben Haj Rhouma.

## Assistant Professors:

Dana Abdelmalik, Temadher Alassiry Almaadeed Mohanad Al-Khasawneh, , Mohammed Salman, Fuad . Zacharias Anstassi, Abdelsalam G. Abdelsalam Leena Al Sulaiti, Mohammed Gharaibeh, Steven Binns, sheikha Al Thani, Hamyan AI Kwuari

## ecturers:

Lecturers: Mohamed Zayed,, Hassan Abdalla, Sahbi Ayari, Wahiba Berkane, Oyelolo Abdiu Adegboye, Khalid Al-Oad Samer Jaffer, Khalid Al Ardah, Ehab Bsheer, Iman E Nabrawy, Hamad Hazim

## eaching Assistants:

Huda Fadol Al Yafi , Mouneera Al-Subeai, , Samar Jaffar, gnatius Prateesh Pinto, Zhoor Ahmed, Ahmed Ahmed Mohamed Mojeeb Khan, Taoutik Bem Jaber, Fatiha Meziane, Saed Marabeh and Nahla Elbashir.

## Lab Technician:

Rifaat Massbah, Omer Madani, Ahmed Edriss, Mona AIRayashi, Mohamed El Shaer

## Administrative

Mooza Al Aswad and Jawhara Mohammed Qader

## ABOUT THE DEPARTMEN

The Departments of Mathematics, Statistic and Physics were integrated into a single department in September members, 17 of which are Qatari nationals. The new Department of Mathematics, Statistic \& Physics consis of three different programs: Mathematics, Statistics and Physics, and the department aim to provide an excellent undergraduate teaching. Currently there is one major that leads to the Bachelor degree of Science in Statistics with inor in computer science, business or social science. leges and Programs within the University.

## BACHELOR OF SCIENCE IN STATISTICS

## Program Objectives

Program Objectives

- Collect data that conform with the statistical principles Use relevant experimental design for scientific investigations.
various types of data numerically and
- Analyze various types of data using statistical packages Effectively use the statistical packages to conduct the various types of statistical tasks.
Demonstrate the theoretical basis of statistical methods. Provide alternative techniques for data analysis based on various approaches.


## Learning Outcomes

Collect and give advice on how to collect data that conform with the statistical principles of data collection.
2. Design or give advice on how to design surveys and
experiments to obtain high-quality data.
3. Describe various types of data numerically and graphically.
. Analyze the various types of data that arise in a range of types of scientific investigation
. Effectively use statistical packages to conduct a number
6. Write and present professional statistical reports, and communicate effectively with the various users of statistics. 7. Demonstrate the theoretical basis of the statistical methods used in a given situation.

## 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 statistica data analysis techniques allows graduates to also be employed by research and consulting agencies.

Admissions Requirements
Aplicants must satisfy QU defined College and Program Applicants must satisty QU defined College and percentage requirement.
Detailed Undergraduate admission requirements are available at the following link: http://www.qu.edu.qa students/admission/undergraduates.php

## Declaring the majo

Students must satisfy QU requirements for declaring a major In addition, students declaring a major in Statistics 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 he major in Statistics, including the following A minimum of 33 credit hours in Core Curriculum - 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

- ENGL 202 English Language I Post Foundation ENGL 203 English Language II Post Foundatio DAWA 111 Islamic Culture
Social/Behavioral Sciences package (3CH) Courses in the CCP defined Social/Behavioral Sciences package


## umanities /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/Mathematic package.

Supplemental College / Program Core Requirements ackage (3 CH)
UNIV 100 First Year Semina

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 231 Applied Regression Analysis
STAT 312 Stochastic Processes
STAT 322 Mathematical Statistics II
STAT 332 Design of Experiments
STAT 333 Time Series
STAT 361 Sampling Methods
STAT 371 Statistical Package
STAT 499 Graduation Project

## Major Electives ( 12 CH )

Students must complete a minimum of 12 credit hours in Major electives courses.
STAT 241 Biostatistics
STAT 242 Demography
STAT 341 Actuarial Statistics
STAT 343 Applied Survival Analysis
TAT 372 Stanitytical Simul
STAT 381 Categorical Data Analysis
STAT 382 Nonparametric Methods
STAT 434 Generalized Linear Models
STAT 442 Actuarial Statistics II
STAT 445 Reliability and Life Testing
STAT 464 Environmental Statis
STAT 498 Special Topics

## Major Supporting Requirements ( 12 CH )

- MATH 101 Calculus I

MATH 102 Calculus I
MATH 231 Linear Algebra
MATH 251 Mathematics for Statistics

## INOR 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.

## 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 102 Statistics II
STAT 211 Introduction to Probability

- STAT 231 Applied Regression Analysi

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
STAT 242 Biostatistics
STAT 332 Design of Experiments

- STAT 333 Time Series

STAT 343 Applied Survival Analysis
STAT 344 Quality Contro
STAT 372 Statistical Simulation
STAT 382 Nonparametric Method

Minor Requirements ( 24 CH )
Students enrolled in the Statistics program may take any of the minors offered within the university.


## THIRD YEAR (30 credit hours)

| Term | Course \# | Course Title | Credit Hours |
| :---: | :---: | :---: | :---: |
| Fall | STAT 312 | Stochastic Processes | 3 |
|  | STAT 322 | Mathematical Statistics II | 3 |
|  | STAT 371 | Statistical Packages | 3 |
|  |  | Minor 1 |  |
|  |  | Minor 2 |  |
| Total Credit Hours in Semester |  |  | 15 |
| Spring | STAT 332 | Design of Experiments | 3 |
|  | STAT 333 | Time Series | 3 |
|  | STAT 361 | Sampling Methods | 3 |
|  |  | Minor 3 |  |
|  |  | Minor 4 |  |
|  | Total Cre | urs in Semester | 15 |


| FOURTH YEAR (30 credit hours) |  |  |  |
| :---: | :---: | :---: | :---: |
| Term | Course \# | Course Title | Credit Hours |
| Fall | STAT 481 | Multivariate Analysis | 3 |
|  |  | Major Elective 1 |  |
|  |  | Major Elective 2 |  |
|  |  | Minor 5 |  |
|  |  | Minor 6 |  |
| Total Credit Hours in Semester |  |  | 15 |
| Spring | STAT 499 | Graduation Project | 3 |
|  |  | Major Elective 3 |  |
|  |  | Major Elective 4 |  |
|  |  | Minor 7 |  |
|  |  | Minor 8 |  |
|  | Total Cred | s in Semester | 15 |

## SPORTS SCIENCE PROGRAM

Women's Main Building, Room 227 (Women's Section) Phone: (974) 44034964 / 4966
mail: sportscience@qu edu qa
Website: http://www.qu.edu.qa/sportscience/

## Acting Director

Ruben Tobias Goebe

## Faculty

Associate Professors
Georgios Antoniou Stylianides, Monem Jemni, Zsolt Tamas Murlasits

## Assistant Professors

Bryna Catherine Rose Chrismas, Ferman Konukman, na Majed, Mahfoud Amra, Nikolaos Theodorakis, Ruben Tobias Goebel, , Walid Briki, Zsuzsanna Kneffel

## eaching Assistant

assie Frasher, Khouloud Mtibaa, Monoem Haddad
Senaid Al-Marri, 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, exe Committed to providing an innovative curriculum which wil be continuously updated, the Program is differentiated into three concentrations:

1. Physical Education
2. Sport Management

The Bachelor's degree in Sport Science - Physical Education seeks to prepare future physical education teachers who will be able to work efficiently with students of different educational stages and diverse areas of society, while following high professional and academic and ass. Tose graing appropriamploy scientic inquiry and technology. The Bachelor's degree in Sport Science - Exercise and Fitness focuses on enhancing the human condition by and providing the Qatari workplace and society with fitness
professionals possessing applied and academic skills and competencies. Furthermore, becoming a professiona oach for various sports (individual and team sports) is The Bachelor's degr
Management seeks to in Sport Science - Sport sports, as well as create and disseminate managerial knowledge in sport business and industry. The goal of the program is to create a collaborative and nurturing learning environment for analyzing and resolving the challenges in the business, management, and culture of sports. With this as a foundation, students can enter the business and confidence to assume leadership positions.

## bACHELOR OF SCIENCE IN SPORT SCIENCE

## Objectives

The program will train the students to understand the functional anatomy and biomechanics of the human body The program will introduce to the students the 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 generate the context of recognizing
cultural diversity; representations of the human body; learning the impact of social, economic, and political forces; experiencing exercise, sport and allied health
settings.
- The program will help the students to formulate an enhancing communication in requiring essay and analytical writing; presenting ideas in carcerisied settin
Th progra will fail the the studers skills. Thinking creatively and synthesizing information for integrative solutions.
The program will introduce the students to criticize information: with internet and web-based technology; with aboratory equipment and instrumentation; and collecting analyzing and preparing data for presentation.


## Learning Outcomes

Learning O Core LOs
O1 Develop key understanding of the theoretical concepts of Physical Education or Exercise Science \& Fitness or Sport Management.
_O2 Apply at least one of the following principles
physiology, psychology, biomechanics, pedagogy and management in sports and exercise.
LO3 Apply and synthesize research skills to offer solutions problems related to sport science
LO4 Develop an understanding for Sport Management, Sport Marketing and its economical responsibilities.
c) Exercise and Fitness LO

LO5 Apply scientific knowledge to promote and develop public health programs and physical activity interventions. d) Physical Education LO
lan and implement effective teaching methods in Physical Education and Physical Activity.

## al Education

## Opportunities

The B.Sc. in Sport Science major was developed to address escalating market needs in fields of Physical Education, Sport Management and Exercise and Fitnes The interdisciplinary nature of the program and its anticipated learning outcomes will provide wide range Graduates will be ready for roles such as PE Teachers, trainers and coaches, club managers, event managers, facilities managers, officers of national and internationa sports associations, as well as community advocates fo fitness and healthy lifestyles

## Admissions Requirements

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

## 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 Sport Science must have completed a minimum of 9 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 complet he major in sport science, including the following - A minimum of

A minimum of 51 credit hours in major requirem - A minimum of 36 credit hours in concentration equirements

## Core Curriculum Program ( 33 CH )

Common package ( 15 CH )

- ARAB 100 Arabic Language I
- ENGL 202 English Language I Post Foundatio

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 $\mathbf{C H}$ )
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 selecting the Sport Management Concentration Area are encouraged to complete the MAT 03 course listed in this package.

## Supplemental Co

UNIV 100 First Year Semina
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 ( 51 CH )

Students must complete a minimum of 51 credit hours in Major required courses:
BIOL 101 Biology I
BIOM 211 Human Anatomy
BIOM 215 Human Physiology
SPSC 101 Traditional and New Games
SPSC 200 Theory and Practice Individual Sports . SPSC 202 Theory and Practice (Team Sports) II SPSC 203 Exercise Physiology I
SPSC 204 Theory and Practice Individual Sports II
-SPSC 206 Research Methods in Exercise Science and

SPSC 210 Principles of Training and Coaching SPSC 306 Motor Learning

- SPSC 310 Principles of Training and Coaching II SPSC 400 Psycho-Social Aspects of Games
- SPSC 401 Performance Analysis and Assessment
- SPSC 490 Sport Science Project

Concentration in Physical Education ( 36 CH )
Students must complete a minimum of 36 credit hours in
concentration requirements.
-EDUC 310 Foundation of Education in Qatar and School
Reform 312 Curriculum and Assessmen

- EDUC 316 Classroom Management

EDUC 317 Inclusive Classrooms
SPSC 209 Biomechanics and Movement Analysis SPSC 349 Developmental Psychology
SPSC 449 Teaching PE in Primary Schools

- SPSC 475 Teaching PE in Secondary Schools - SPSC 499 Internship


## Concentration in Exercise and Fitness ( $\mathbf{3 6} \mathbf{C H}$ )

 Students must complete a minimum of 27 credit hours in concentration requirements and 9 CH in concentration supporting requirements.
## Exercise and Fitness Concentration Cor

## Exercise and Fitness

- 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 404 Exercise, Ond Hity and Diabetes
SPSC 404 Exercise and Heart Disease

## Exercise and Fitness Concentration Supporting

Requirements (9 CH)
Students must complete all courses listed below: SPSC 305 Sport Marketing and Management I SPSC 311 First Aid and CPR
SPSC 407 Sport Governance and Nutrition

## Concentration in Sport Management (36 CH)

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

Sport Management Concentration Core Requirements ( 24 CH )
ACCT 111 Frincial Accounting
ECON 111 Principles of Microeconomics

- FINA 201 Principles of Finance
-MAGT 101 Principles of Managemen
MAGT 306 International Business
MAKT 101 Principles of Marketing
MATH 119 Business Math I
Sport Management Concentration Supporting Requirements ( 12 CH )
Requirements ( 12 CH) SPSC 407 Sport Governance and Economics - SPSC 409 Sport Marketing and Management II - SPSC 410 Sport Governance and Economics II

Study Plan for Sport Management
Sports Science Program


THIRD YEAR ( 30 credit hours)

| Term | Course \# | Course Title | Credit <br> Hours |
| :--- | :--- | :--- | :--- |
| Fall | MAGT 101 | Princ of Management | 3 |
|  | ACCT 110 | Finan Accounting | 3 |
|  | ECON 111 | Principles of <br> Microeconomics | 3 |
|  | SPSC 308 | Sport Psychology | 3 |
|  | CC | Humanities/Fine Arts | 3 |
| Total Credit Hours in Semester |  |  |  | 159.


| Term | Course \# | Course Title | Credit Hours |
| :---: | :---: | :---: | :---: |
| Fall | SPSC 202 | Theory and Practice of Team Sport II | 3 |
|  | SPSC 203 | Exercise Physiology I | 3 |
|  | SPSC 206 | Res Methods in Exercise Science and Health | 3 |
|  | Core Curriculum | Common Package | 3 |
|  | Core Curriculum | Common Package | 3 |
| Total Credit Hours in Semester |  |  | 15 |
| Spring | SPSC 204 | Theory and Practice Individual Sport II | 3 |
|  | SPSC 210 | Principals of Training and Coaching I | 3 |
|  | SPSC 306 | Motor Learning | 3 |
|  | Core Curriculum | Natural Sciences/ Mathematics Package | 3 |
|  | Core Curriculum | Common Package | 3 |
|  | Total Credit Hours in Semester |  | 15 |


| FOURTH YEAR (27 credit hours) |  |  |  |
| :---: | :---: | :---: | :---: |
| Term | Course \# | Course Title | Credit Hours |
| Fall | ECON 112 | Principle of Macroeconomics | 3 |
|  | SPSC 407 | Sport Government + Economics I | 3 |
|  | SPSC 409 | Sport Marketing and Management II | 3 |
|  | SPSC 401 | Performance Analysis + Assessment | 3 |
|  | Core Curriculum | General Knowledge | 3 |
| Total Credit Hours in Semester |  |  | 15 |
| Spring | MAGT 306 | International Business | 3 |
|  | SPSC 410 | Sport Govern + Economics II | 3 |
|  | SPSC 490 | Sport Science Project | 3 |
|  | $\begin{aligned} & \hline \text { Core } \\ & \text { Curriculum } \end{aligned}$ | General Skills Package | 3 |
| Total Credit Hours in Semester |  |  | 12 |

Study Plan for Exercise and Fitness Concentration ports Science Program

| Sports Science Program |  |  |  | THIRD YEAR (30 credit hours) |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Term | Course \# | Course Title | Credit | Term | Course \# | Course Title | Credit |
|  |  |  | Hours | Fall |  |  |  |
| Fall | BIOL 101 | Biology 1 | 3 |  | SPSC 302 | Fitness Testing and Training | 3 |
|  | SPSC 101 | Traditional and New | 3 |  | SPSC 303 | Exercise and Metabolism | 3 |
|  |  |  |  |  | SPSC 307 | Exercise Physiology II | 3 |
|  | SPSC 201 | Theory and Practice of Team Sports I | 3 |  | SPSC 308 | Sport Psychology | 3 |
|  | MATH 103 | Numbers and Basic | 3 |  | SPSC 311 | First Aid and CPR | 0 |
|  |  | Algebra |  |  | Core Curriculum | Humanities/Fine Arts | 3 |
|  | Curriculum |  |  |  | Total Credit | ours in Semester | 15 |
| Total Credit Hours in Semester |  |  | 15 | Spring | SPSC 309 | Exercise and Aging | 3 |
| Spring | Core Curriculum | Social/Behavioral Sciences Package | 3 |  | SPSC 305 | Sport Marketing and Management I | 3 |
|  | BIOM 211 | Human Anatomy | 3 |  | SPSC 310 |  | 3 |
|  | BIOM 215 | Human Physiology | 3 |  |  | Coaching II |  |
|  | SPSC 200 | Theory and Practice Individual Sport I | 3 |  | SPSC 400 | Psychosocial Aspects of Games | 3 |
|  | Core Curriculum | Common Package | 3 |  | Core Curriculum | Qatar and Gulf History | 3 |
| Total Credit Hours in Semester |  |  | 15 | Total Credit Hours in Semester |  |  | 15 |
| SECOND YEAR (30 credit hours) |  |  |  | FOURTH YEAR (33 credit hours) |  |  |  |
| Term | Course \# | Course Title | Credit Hours | Term | Course \# | Course Title | Credit Hours |
| Fall | SPSC 202 | Theory and Practice of | 3 | Fall | SPSC 318 | Exercise Psychology | 3 |
|  | SPSC 203 | Team Sport II | 3 |  | SPSC 406 | Concepts of Fitness and Nutrition | 3 |
|  | SPSC 206 | Res Methods in Exercise Science and Health | 3 |  | SPSC 401 | Performance Analysis and Assessment | 3 |
|  | Core Curriculum | Common Package | 3 |  | SPSC 407 | Sport Governance and Economics I | 3 |
|  | Core Curriculum | Common Package | 3 |  | Core Curriculum | General Knowledge |  |
| Total Credit Hours in Semester |  |  | 15 | Total Credit Hours in Semester |  |  | 15 |
| Spring | SPSC 204 | Theory and Practice Individual Sport II | 3 | Spring | SPSC 403 | Exercise, Obesity and Diabetes | 3 |
|  | SPSC 210 | Principals of Training and Coaching I | 3 |  | SPSC 404 | Exercise and Heart Disease | 3 |
|  | SPSC 306 | Motor Learning | 3 |  | SPSC 405 | Testing and Exercise Prescription | 3 |
|  | SPSC 209 | Biomechanics and Movement Analysis | 3 |  | SPSC 490 | Sport Science Project | 3 |
|  | Core Curriculum | Common Package | 3 |  | Core Curriculum | General Skills Package |  |
| Total Credit Hours in Semester |  |  | 15 | Total Credit Hours in Semester |  |  | 12 |

Study Plan for Physical Education Concentration

| FIRST YEAR (30 credit hours) |  |  |  |
| :---: | :---: | :---: | :---: |
| Term | Course \# | Course Title | Credit Hours |
| Fall | BIOL 101 | Biology 1 | 3 |
|  | SPSC 101 | Traditional and New Games | 3 |
|  | SPSC 201 | Theory and Practice of Team Sports I | ${ }^{3}$ |
|  | MATH 103 | Numbers and Basic Algebra | 3 |
|  | Core Curriculum | Common Package | 3 |
| Total Credit Hours in Semester |  |  | 15 |
| Spring | Core Curriculum | Social/Behavioral Sciences Package | 3 |
|  | BIOM 211 | Human Anatomy | 3 |
|  | BIOM 215 | Human Physiology | 3 |
|  | SPSC 200 | Theory and Practice Individual Sport I | 3 |
|  | Core Curriculum | Common Package | 3 |
|  | Total Credit Hours in Semester |  | 15 |
| THIRD YEAR ( 33 credit hours) |  |  |  |
| Term | Course \# | Course Title | Credit Hours |
| Fall | EDUC 310 | Foundation of Education in Qatar and School Reform | 3 |
|  | EDUC 312 | Curriculum and Assessment | 3 |
|  | SPSC 349 | Developmental Psychology | 3 |
|  | SPSC 308 | Sport Psychology | 3 |
|  | EDUC 317 | Inclusive Classroom | 3 |
|  | SPSC 399 | Physical Education in Schools | 3 |
| Total Credit Hours in Semester |  |  | 18 |
| Spring | EDUC 316 | Classroom Management | 3 |
|  | SPSC 310 | Principals of Training and Coaching II | 3 |
|  | SPSC 400 | Psychosocial Aspects of Games | 3 |
|  | SPSC 449 | Teaching PE in Primary Schools | 3 |
|  | Core Curriculum | Humanities/Fine Arts | 3 |


| SECOND YEAR (30 credit hours) |  |  |  |
| :---: | :---: | :---: | :---: |
| Term | Course \# | Course Title | Credit Hours |
| Fall | SPSC 202 | Theory and Practice of Team Sport II | 3 |
|  | SPSC 203 | Exercise Physiology I | 3 |
|  | SPSC 206 | Res Methods in Exercise Science and Health | 3 |
|  | $\begin{aligned} & \text { Core } \\ & \text { Curriculum } \end{aligned}$ | Common Package | 3 |
|  | $\begin{array}{\|l\|} \hline \text { Core } \\ \text { Curriculum } \\ \hline \end{array}$ | Common Package | 3 |
| Total Credit Hours in Semester |  |  | 15 |
| Spring | SPSC 204 | Theory and Practice of Individual Sport II | 3 |
|  | SPSC 210 | Principals of Training and Coaching I | 3 |
|  | SPSC 306 | Motor Learning | 3 |
|  | SPSC 209 | Biomechanics and Movement Analysis | 3 |
|  | $\begin{aligned} & \text { Core } \\ & \text { Curriculum } \end{aligned}$ | Common Package | 3 |
| Total Credit Hours in Semester |  |  | 15 |
| FOURTH YEAR (27 credit hours) |  |  |  |
| Term | Course \# | Course Title | $\begin{array}{\|l\|} \hline \text { Credit } \\ \text { Hours } \end{array}$ |
| Fall | EDEC 411 | Health and Safety of Young Children | 3 |
|  | SPSC 475 | Teaching PE in secondary Schools | 3 |
|  | SPSC 401 | Performance Analysis and Assessment | 3 |
|  | $\begin{aligned} & \text { Core } \\ & \text { Curriculum } \\ & \hline \end{aligned}$ | Qatar and Gulf History | 3 |
|  | $\begin{array}{\|l\|} \hline \text { Core } \\ \text { Curriculum } \\ \hline \end{array}$ | General Knowledge | 3 |
| Total Credit Hours in Semester |  |  | 15 |
| Spring | SPSC 499 | Internship (7 weeks each) | 6 |
|  | SPSC 490 | Sport Science Project | 3 |
|  | $\begin{array}{\|l\|} \hline \text { Core } \\ \text { Curriculum } \\ \hline \end{array}$ | General Skills Package | 3 |



## COLLEGE OF HEALTH SCIENCES

College of Sciences Building, Room 125 (Women's ection)Phone: (974) 4403-4800
Email: health@qu.edu.qa
Website: http://www.qu.edu.qa/artssciences/health
Dean
Asmaa Althani
Acting Associate Dean for Academic Affairs Ahmed Malki

Students Affairs coordinator
Nada Al Kubiasi

## About the college

Established in 2016, upon the cornerstone of a perpetua ursuit of knowledge and academic excellence, the CH is one of the most intellectually vibrant Health Sciences Comprised of three departments---Biomedical Science (BSc. \& MSc.), Public Health (BSc. \& MPH), and Human Nutrition (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 ationally and internationally renowned. The standardized services the CHS provides students, in combination with
state-of-the-art, well- equipped laboratories 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 sof Qatar, thereby significantly enhancing the quality of the healthcare sector in Qatar, as well as the quality of life for the great people of Qata

## bIomedical science departmen

## Acting Head

Marawan Abu Madi
Associate Professors
Ahmed Malki, Nasser Rizk, Pejman Moghaddam,

## Assistant Professor

Gheyath Naserallah, Elham Sherif, Hatem Zayed, Ibrahim Mustafa, Maha Al-Asmakh,

## Teaching Assistants

mna Al-Thani, Hala Bargal, Maria Ali, Sumbul Bushra, Taghreed H. A. Abunada Tameom 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 co mperal bicical scienists with knowledge of and communication skills; with emphasis on ethics for the healthcare industry. Our graduates are keen on continuous education, professional development and adapt to the changing technology and needs of society. The goals of he Biomedical Sciences major are to help students to Acquire knowledge related to the field of biomedical cience.
Gain practical skills related to the laboratory field.
Develop communication 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

Demonstrate conceptual knowledge in biomedical field. Perform basic laboratory techniques in biomedical labs. Comply with safety regulations and universal precautions. Communicate effectively with colleagues and clients. Solve problems related to discrepancies in test results. - Integrate patient data for evaluation of validity of boratory test results.
Apply computer technology in clinical laboratory data processing, data reporting and information retrieval. Maintain strong professional ethics.
Adjust effectively in team working.
Participate in biomedical research.
Maintain positive attitudes toward life-long learning in the biomedical field.

## 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 diagnose disease or monitor treatment of patients. information used to treat patients comes from the clinic aboratory.

Most clinical laboratory scientists begin their professiona careers working in a laboratory in an acute care or oxist in physician offices, public health , reference laboratories, research laboratories, and forens 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" motivated and works well under pressure. Additionally, on should have good manual dexterity, good attention to detal 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 National Accrediting Agency for Clinical Laboratory Sciences
5600 N. River Rd.
Suite 720
Rosemont, IL 60018-5119
773.714 .8880
73.714.8886 (FAX)

## 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/ students/admission/undergraduates.php

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

## 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 linical practice rotations will be coordinated by the ise the courses in the student's las semester of study.

## DEGREE REQUIREMENTS

## Major in Biomedical Science

A minimum of 135 credit hours $(\mathrm{CH})$ 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 A minimum of 4 credit hours in Major Electives
Core Curriculum Program (33 CH) Common package ( 15 CH )
ARAB 200 Arabic Language
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 301 Lab Management and QC
BIOM 301 Lab Management and
BIOM 322 Medical Microbiology

BIOM 323 Medical Parasitology
BIOM 324 Medical Virology

- BIOM 346 Clinical Chemistry

BIOM 418 Pharmacology and Toxico
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 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 )

minimum of 37 credit hours in
ajor Supporting courses
BIOL 241 Microbiol
BIOM 211 Human Anatom
BIOM 212 Human Histology
BIOM 215 Human Physiology
BIOM 217 Human Genetics
BIOM 243 Introduction to Pathology
CHEM 101 General Chemistry I
CHEM 209 Fundamentals in Or Chemistry
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 ( $4 \mathbf{C H}$ )

must complete a minimum of 4 credit hours in
ajor Elective courses:
BIOM 400 Seminar
BIOM 401 Special Topics
BIOM 402 Special Topics
BIOM 411 Forensic Science
CHEM 231 Analytical Chemistry I
CHEM 234 Experimental Analytical Chemistry
PHYS 111 Practical Physics for Biology

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

| Fall 1st Semester |  |  |
| :---: | :---: | :---: |
| Code | Course | Cr |
|  | Core | 6 |
| BIOL 101 | Biology | 3 |
| CHEM 101 | General Chemistry | 3 |
| CHEM 103 | Exp. General Chemistry | 1 |
| MATH 101 | Calculus | 3 |
|  | Total | 16 |
| Spring 2nd Semester |  |  |
|  | Core | 9 |
| BIOM 211 | Human Anatomy | 3 |
| BIOM 212 | Human Histology | 3 |
| CHEM 209 | Fundamentals in Organic Chemistry | 3 |
|  | Total | 18 |
| Fall 3rd Semester |  |  |
| BIOM 215 | Human Physiology | 3 |
| BIOM 217 | Human Genetics | 3 |
| CMPS 101 | Introduction to Computer | 3 |
| BIOL 241 | Microbiology | 3 |
|  | Core | 6 |
|  | Total | 18 |
| Spring 4th Semester |  |  |
| BIOL311 | Molecular Biology | 3 |
| BIOM 243 | Introduction to Pathology | 2 |
| CHEM 351 | Basic Biochemistry | 3 |
| CHEM 352 | Experimental Biochemistry | 1 |
|  | Core | 9 |
|  | Total | 18 |

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

| Fall 5th Semester |  |  |
| :---: | :---: | :---: |
| Code | Course | Cr |
| ВІОм 324 | Medical Virology | 2 |
| BIOM 346 | Clinical Chemistry | 4 |
| BIOM 426 | Clinical Immunology | 3 |
| BIOM 402 | Special Topics | 2 |
| STAT 151 | Intro. to Applied Statistics | 3 |
|  | Total | 14 |
| Spring 6th Semester |  |  |
| BIOM 418 | Pharmacology \& Toxicology | 2 |
| BIOM 463 | Endocrinology | 3 |
| В10м 322 | Medical Microbiology | 4 |
| BIOM 446 | Urine Analysis \& Body Fluids | 2 |
| BIOM 451 | Hematology \& Hemostasis | 4 |
| вІОм з2з | Medical Parasitology | 3 |
|  | Total | 18 |
| Fall 7th Semester |  |  |
| BIOM 301 | Laboratory management | 3 |
| BIOM 444 | Histopathology | 2 |
| BIOM 422 | Diagnostic Microbiology | 2 |
| BIOM 452 | Immunohematology. \& Blood Bank | 3 |
| BIOM 497 | Research Project 1 | 3 |
|  | Forensic Science (or Electives) | 2 |
|  | Total | 15 |
| Spring 8th Semester |  |  |
| BIOM 491 | CP in Chemistry | 3 |
| BIOM 492 | CP in Hematology | 3 |
| BIOM 493 | CP in Immunology | 3 |
| BIOM 494 | CP in Microbiology | 3 |
| BIOM 495 | CP in Immunohematology | 3 |
| BIOM 496 | Professional Development | 3 |
|  | Total | 18 |



| Spring 5th Semester |  |  |  |  |
| :--- | :--- | :--- | :---: | :---: |
| Code | Course | Cr |  |  |
| BIOL 311 | Molecular Biology | 3 |  |  |
| BIOM 322 | Medical Microbiology | 4 |  |  |
| BIOM 402 | Special Topics | 2 |  |  |
| BIOM 446 | Urine Analysis \& Body Fluids | 2 |  |  |
| BIOM 451 |  <br> Hemostasis | 4 |  |  |
| BIOM 323 | Medical Parasitology | 3 |  |  |
| Total |  |  |  | 18 |
| Fall 6th Semester |  |  |  |  |
| BIOM 324 | Medical Virology | 2 |  |  |
| BIOM 346 | Clinical Chemistry | 4 |  |  |
| BIOM 426 | Clinical Immunology | 3 |  |  |
| BIOM 422 | Diagnostic Microbiology | 2 |  |  |
| BIOM 452 | mmunohematology. \& Blood | 3 |  |  |
|  | Total | 14 |  |  |

## HUMAN NUTRITION DEPARTMENT

## BACHELOR OF SCIENCE IN HUMAN NUTRITION

| Spring 3rd Semester |  |  |
| :--- | :--- | :--- |
| BIOM 215 | Human Physiology | 3 |
| BIOM 217 | Human Genetics | 3 |
| BIOM 243 | Introduction to <br> Pathology | 2 |
|  | Core | 9 |
|  | Total | 17 |
| Fall 4th Semester |  |  |
| STAT 151 | Introduction to <br> Applied Statistics | 3 |
| BIOL 241 | Microbiology | 3 |
| CHEM 351 | Basic Biochemistry | 3 |
| CHEM 352 | Experimental <br> Biochemistry | 1 |
|  | Core | 9 |
|  | Total | 19 |
|  |  |  |

Acting Head
Abdelhamid K
Associate Professors
Hiba Bowadi
Assistant Professors:
Tahra ElObeid,
Lecturers
Tamara Al-Abdi,

## Teaching Assistants:

## Samira BoRaad,

## Objectives

Prepare graduates for careers as dietitians and nutrition professionals who will enhance the role of healthy nutrition on the health and wellbeing of individuals and population groups in the Middle East and North Africa Region. Develop graduates with expertise in pediatric clinical nutrition to address the nutrition care needs of children/ adolescents with overweight, obesity, diabetes, and inherited errors of metabolism (predominately homocystinuria).

## 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 Cleal Natrition care process and model and other areas of dietetics practice.
- CRD 1.3: Justify programs, products, services and care using appropriate evidence or data.
-CRD1.4: Evaluate emerging research for application in dietetics practice.
CRD 1.5: Conduct research projects using appropriat esearch methods, ethical procedures and statistical analysis
CRD 2.1: Practice in compliance with current federal and in accordance with accreditation standards and the ADA Scope of Dietetics Practice Framework, Standards of Professional Performance and Code of Ethics for the

Profession of Dietetics
RD 2.2: Demonstrate professional writing skills in erepuscripts, proional communications (e.g. research policies and procedures)
CRD 2.3: Design, implement and evaluate presentations onsidering life experiences, cultural diversity and ducational background of the target audience. CRD. 2.4: Use effective education and counseling skills facilitate behavior change
RD. 2.5: Demonstrate active participation, teamwork and contributions in group settings.
CTRs and/or support personnel catient care activities to the patient/client or situation considering the needs personnel, jurisdictional law, practice guidelines and
policies within the facility.
CRD 2.7: Refer clients and patients to other professionals and services when needs are beyond individual scope of practice.
CRD 2.8: Apply leadership principles effectively to chieve desired outcomes.
CRD 2.9: Serve in professional and community organizations.
CRD 2.10: Establish collaborative relationships with internal and external stakeholders, including patients, clients, care givers, physicians, nurses and other health professionals, administrative and support pe
goals.
CRD 2.11: Demonstrate professional attributes in various Cganizational cultures
bjectives and prepare evelopment, as defined by the Commission professional Registration.
CP 213: D. .ill whil Demonstrate assertiveness and negotiation kills while respecting life experiences, cultural diversity nd educational background
below) and use standardized nurite Process (a through ndividuals, groups and populations of differing ages and health status, in a variety of settings.
CP 3.1.a: Assess the nutritional status of individuals, groups and populations in a variety of settings where uutrition care is or can be delivered.
CP 3.1.b: Diagnose nutrition problems and create
CP 3 , etiology, signs and symptoms (PES) statements nclude 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 effectiv communications skills using oral, print, visual, electronic and mass media methods or axing CRD 3 . 3 .
services that promote consumer health, wellness and ifestyle management merging consumer desire for taste, convenience and economy with nutrition, food safety and health messages and interventions.
CRD 3.4: Deliver respectful, science-based answers to consumer questions concerning emerging trends
distribution and service of goods and services,
CRD 3.6: Develop and evaluate recipes, formulas an menus for acceptability and affordability that accommodate the cultural diversity and health needs of various populations, groups and individuals
CRD 4.1: Use organizational processes and tools to manage human resources.
CRD 4.2: Perform management functions related to safety, security and sanitation that affect employees,
CRD. 4.3: Participate in public policy
CRD. 4.3. Participate in public policy activities, including - CRD 4.4: Conduct clinical and customer service quality management activities.
CRD 4.5: Use current informatics technology to develop store, retrieve and disseminate information and data. CP 4.6: Analyze quality, financial or productivity data and develops a plan for intervention.
the practice setting to reduce wedures as appropriat environment.

- CRD 4.8: Conduct feasibility studies for products, programs or services with consideration of costs and enefits.
CRD 4.9: Obtain and analyze financial data to assess budget controls and maximize fiscal outcomes. program or service including development of a bud taffing needs, facility requirements, equipment and supplies.


## Opportunities

As a Human Nutrition graduate, you have many career opportunities. The combined courses in social sciences and biological sciences, and integration of these in human nutifietitian, the primary career opportunities are in clinical dietetics, community nutrition or food service management An example of institutions with positions for HNP graduates:
Hamad Medical Corporation
Aspire/ASPETAR

Qatar Foundation

Ministry of Public Healt
ary Health
ate clinics

## Admissions Requirements

Applicants must satisfy QU defined College and Program requirements including the minimum high school ercentage requirement.
available at the following link: sion requirements ar students/admission/undergraduates.php

## 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, tudents declaring a major in Human Nutrition must hav bove including BIOL 101 with a minimum grade of

## Requirements for Continuance in the Human Nutrition

 ProgramStudents 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.

DEGREE REQUIREMENTS

## Major in Human Nutrition

A minimum of 132 credit hours $(\mathrm{CH})$ are required to complete the major in Human Nutrition, including the ollowing:
A minimum of 33 credit hours in Core Curriculum equirements
A minimum of 9 credit hours in Major Requirements - A minimum of

A minimum of 9 credit hours in Food Sciences and
Technology requirements
A minimum of 29 credit hours in Major supporting A minimums

## Core Curriculum Program (33 CH)

Common package ( 15 CH )
ARAB 100 Arabic Language
ARAB 200 Arabic Language II
ENGL 202 English Language I Post Foundation
ENGL 203 English Language II Post Foundation
DAWA 111 Islamic Culture

## Social/Behavioral Sciences package (3 CH

Courses in CCP defined Socia/Behavioral Sciences package.
umanities /Fine Arts package (3 CH ) Students must complete a minimum of 3 Credit Hours from courses listed in the Qatar and Gulf History
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)

First Year Seminar
General Knowledge package ( 3 CH ) Ourses 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 equirements, 52 CH in Nutrition \& Dietetics package equirements, and 9 CH in Food Sciences and Technolog Package Requirements.

Major Core Requirements package (9 CH) Students must complete a minimum of 9 CH in major cor requirements including:
NUTR 231 Human Nutrition
NUTR 321 Food Chemistry
NUTR 352 Nutritional Metabolism
Nutrition \& Dietetics package ( $\mathbf{5 2} \mathbf{C H}$ )
Students must complete a minimum of 52 CH in Nutrition
Students must complete a minimu
\& Dietetics package requirements.
NUTR 223 Introduction to Dietetic Profession

- NUTR 353 Nutrition Education and Communication

NUTR 338 Nutrition through the Lifespan

- NUTR 340 Assessment of Nutritional Statu

NUTR 439 Meal Planning \& Evaluation
NUTR 450 Medical Nutrition Therapy I
NUTR 454 Medical Nutrition Therapy I
NUTR 453 Medical Nutrition Laboratory I
NUTR 457 Public Health Nutrition
NUTR 470 Clinical Pediatric Nutrition
NUTR 490 Capstone Course
NUTR 491 Nutrition Semina

NUTR 492 Research Methodologies in Human Nutritio Supervised Dietetic Practice I (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 - NUTR 441 Food Safety and Quality ControlNUTR 460 Food Service Operations

## Major Supporting Requirements ( 29 CH )

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

- BIOL 101 Biology I

BIOL 241 Microbiology
BIOM 211 Human Anatom
BIOM 215 Human Physiology
BIOM 217 Human Genetics
CHEM 101 General Chemistry I
CHEM 103 Experimental General Chemistry I

- CHEM 209 Fundamentals in Organic Chemistry

CHEM 352 Experimental Biochem
STAT 101 Statistics I

## 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 stuct
science and its applications in food industry.

## Declaring the minor

Applicants for the minor in Human Nutrition must satisfy QU 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
Students seeking a minor in Human Nutrition must
complete a minimum of 18 CH including the following
A minimum of 9 CH in Minor requirement
A minimum of 9 CH in Minor electives
Minor Requirements package(9 CH)
Students must complete a minimum of 9 CH in Mino equired courses:
NUTR 231 Human Nutritio
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 \& Equipmen 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

Study Plan for Human Nutrition Bachelor of Sciences in Human Nutrition


| Term | Course \# | Course Title | Credit Hours |
| :---: | :---: | :---: | :---: |
| Fall | NUTR 439 | Meal Planning \& Evaluation | 2 |
|  | NUTR 340 | Assessment of Nutritional Status | 3 |
|  | NUTR 338 | Nutrition through the Lifespan | 3 |
|  | NUTR 319 | Quantity Food Production \& Equipment | 3 |
|  | BIOL 241 | Microbiology | 3 |
|  |  | Core Curriculum course | 3 |
| Total Credit Hours in Semester |  |  | 17 |
| Spring | NUTR 353 | Nutrition Education and Communication | 3 |
|  | NUTR 450 | Medical Nutrition Therapy <br> 1 | 3 |
|  | NUTR 454 | Medical Nutrition Laboratory 1 | 1 |
|  | NUTR 492 | Research Methodologies in Human Nutrition | 1 |
|  | NUTR 441 | Food safety and Quality | 3 |
|  | NUTR 457 | Public Health Nutrition | 3 |
|  |  | Core Curriculum Course | 3 |
|  |  | s in Semester | 17 |

Total Credit Hours in Semester

| FOURTH YEAR (24 credit hours) |  |  |  |
| :---: | :---: | :--- | :---: |
| Term | Course \# | Course Title | Credit <br> Hours |
|  | NUTR 453 | Medical Nutrition <br> Laboratory2 | 1 |
|  | NUTR 451 | Medical Nutrition Therapy <br> 2 | 3 |
|  | NUTR 491 | Nutrition Seminar | 1 |
|  | NUTR 470 | Clinical Pediatric Nutrition | 3 |
|  | NUTR 490 | Capstone Course | 3 |
|  | NUTR 460 | Food Service Operations | 3 |
| Total Credit Hours in Semester |  |  | 14 |
| Spring |  |  | NUTR 494 |
| Total Credit Hours in Semester |  |  |  |
| Supervised Dietetic | 10 |  |  |
|  |  |  |  |

## PUBLIC HEALTH DEPARTMENT

## THE BACHELOR OF SCIENCE IN PUBLIC HEALTH

## Acting Head Lukman Thalib

## Associate Professors

Shafqat Shehzad.

## Assistant Professors

## Kendra Guilford, Fahad Han

Lecturers
Ghadir Khalil.
Teaching Assistants
Rana Mahmoud Kurd

## ABOUT THE PROGRAM

The Bachelor of Science in Public Health was designed to promote the development of public policies, programs and services that support a healthy and fulfiling ifie for oo join the interdisciplinary field of Public Health, which addresses the distribution and determinants of health and disease states in the population as well as the appropriate and effective interventions to address them. Crucially, the public health approach reaches beyond the individual-leve preventive health factors and by developing public policies that positively impact human health on both a national and regional level.
Students in this program will take courses covering the core knowledge areas of Public Health, namely Epidemiology, Biostatistics, Environmental Health Sciences, Health Services Administration, and Social and Pubic Health Program will also be well prepared to pur graduate work in a Master of Public Health program and/o other related disciplines.
Committed to providing an innovative curriculum which will be continuously updated in line with local needs and international trends in the discipline, the Program is differentiated into two concentrations:

1. Health Manageme

## bachelor Of SCIENCE IN PUBLIC HEALTH

Mission
The mission of the Public Health program is to provide eadership in public health education and to facilitate
the development of effective public health policies on both national and regional levels. Through high-quality will promote the concepts and practice of health promotion, disease provention, rational policy making and effective and efficient management of preventive and curative health services and programs.

## Objectives

The objectives of the Public Health Program are to: 1. Provide students with comprehensive instruction in the international standards for public health
2. Teach students the concepts and practices of health promotion and disease prevention and the complexities
eliminating health disparities in human populations. 3. Cultivate within students the ability to analyze public health policies and interventions, assessing their
effectiveness and proposing possible alternatives
4. Teach students the basics of health service organization, financing, delivery and evaluation

## Learning Outcomes

The key learning outcomes for the Program are as follows: The key learning outcomes for the Program are as follows: 1. Apply public health concepts as a broad and complex domain of professional practice and inquiry, with specific reference to the local context.
2. Analyze local and international public health problems with inferences from history and milestones in the evolutio of the public health field
3. Examine ethical issues relevant to public health
practice, especially as they apply to local specificities, and justify proposed courses of action.
4. Apply research skills to generate well-formed questions and approaches to answering them - including research questions, data sources, and appropriate methodologies. 5. Assess evidence used to implement and evaluate public health interventions
6. Communicate effectively about public health issues.

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

- Design health education strategies and interventions. - Assess the appropriateness and impact of health education strategies and interventions.
In addition to the learning outcomes common to all concentrations, students in the Health Management concentrations, students in the Health N .
concentration will develop the ability to:
- Demonstrate leadership skills in public health
- Apply management theories and concepts to public health issues;
- Demonstrate knowledge of effective management of
ublic 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 area of public health. Given the specific concentrations of the program, graduates of the program are expected to find employment opportunities in health care organizations as well as in organizations outside the hearnizations) in capacities related to health research, health program planning, policy formulation and assessment, management, program evaluation and health education.

Graduates of the Public Health program can work in: Public and private health care settings
Schools and univers
Research centers
health-oriented associations National and International Development Organizations

## Admissions Requirement

Applicants must satisfy QU defined College and Program equirements including the minimum high school percentage requirement
Detailed Undergraduate admission requirements ar vailable at the following link: http•//www.qu.edu.qa/ students/admission/undergraduates.php

## Declaring the major

Students must satisfy QU requirements for declaring major including the need to declare the major before completing 36 undergraduate credit hours. In addition, students declaring a major in Public Health must have completed a minimum of 12 CH , including STAT 101 with a grade of C or better and a minimum GPA of 2.00 . In equirements of the Foundation Program or satisfy the University's competency requirements.

## degree requirements

## Major in Public Health

A minimum of 120 credit hours are required to complet he major in Public Health, including the following: - A minimum of

A minimum of 33 credit hours in Major Requirements A minimum of 12 credit hours in Major Supporting Requirements
A minimum of 9 credit hours in Major Electives

- A minimum of 24 credit hours in Concentration Requirements
A minimum of 9 credit hours in Free Electives


## Core Curriculum Program (33

ommon 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 ) Any Course in the CCP defined Social/Behavioral Sci ences package

## Humanities /Fine Arts package ( 3 CH )

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

Natural Science/Mathematics package (3 CH ) Any Course in the CCP defined Natural Science / Math ematics 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 ( 33 CH )

Students must complete the following courses
PUBH 101 Public Health Sciences: Principles and Practice
PUBH 201 Environmental Health and Disease
PUBH 202 Health, Behaviour and Society

- PUBH 205 Research Methods for Public Health
- PUBH 241 Biostatistical Methods for Public Health
- PUBH 301 Public Health Ethics
- PUBH 303 Epidemiology
- PUBH 306 Public Health Systems, Management, and Policy Developmen
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 Patholog
CHM General Chemistry
General Chemistry 1

## Major 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 olicy Decision Making
OPL 340 Organizational Behavior and Management in
PUBH 200 Internation
PUBH 206 Classification Health and Global Society
PUBH 208 Quality of 1 n of Diseases
PUBH 221 Contemporary Health Iss
PUBH 305 Air Pollution and Human Healt
PUBH 420 Design of Program Evaluation System PUBH 421 Health Promotion and Disease Prevention for Women Across the Lifespan
PUBH 439 Public Health Preparedness
Concentration in Health Education (24 CH)
Students must complete a minimum of 24 credit hours in
he Health Education concentration requirements package

## Tealth Education Concentration Requirements

 Package ( 24 CH )Students must complete the following courses:
NUTR 221 Principles of Food Science and Nutrition
PUBH 221 Contemporary Health Issues
PUBH 222 Foundations of Health Education
PUBH 310 Needs Assessment Methods for Health Education Programs
PUBH 312 Planning for Health Education Programs PUBH 314 Health Education Practicu
PUBH 421 Health Promotion and Disease Prevention for Women Across the Lifespan
PUBH 426 Prevention Science

## Concentration in Health Management ( 24 CH)

Students must complete a minimum of 24 credit hours in the Health Management concentration requirements package.

## Health Management Concentration

Requirements package ( 24 CH )
Students must complete the following courses
ECON 111 Principles of Microeconomics
MAGT 101 Principles of Management
MAGT 302 Human Resource Management

PUBH 230 Strategic Planning and Marketing

- PUBH 338 Financial Management of Health Care PUBH 420 Design of Program Evaluation Systems nomics


## Free Electives (9 CH)

Students must complete a minimum of 9 credit hours in University Free Electives from courses outside the Public Health majo

Study Plan for Health Education

## Bachelor of Sciences in Public Health

| FIRST YEAR (30 credit hours) |  |  |  |
| :---: | :---: | :---: | :---: |
| Term | Course \# | Course Title | Credit Hours |
| Fall |  | Core Curriculum Elective <br> 1 | 3 |
|  |  | Core Curriculum Elective 2 | 3 |
|  |  | Core Curriculum Elective <br> 3 | 3 |
|  | BIOL 110 | Human Biology | 3 |
|  | STAT 101 | Statistics 1 | 3 |
| Total Credit Hours in Semester |  |  | 15 |
| Spring |  | Core Curriculum Elective 4 | 3 |
|  |  | Core Curriculum Elective 5 | 3 |
|  |  | Core Curriculum Elective <br> 6 | 3 |
|  | CHEM 101 | General Chemistry 1 | 3 |
|  | CHEM 103 | Eexperimental General Chemistry 1 | 1 |
|  | BIOM 243 | Introduction to Pathology | 2 |
| Total Credit Hours in Semester |  |  | 15 |


| SECOND YEAR ( 30 credit hours) |  |  |  |
| :---: | :---: | :---: | :---: |
| Term | Course \# | Course Title | Credit Hours |
| Fall |  | Core Curiculum Elective 7 | 3 |
|  |  | Core Curriculum Elective 8 | 3 |
|  |  | Core Curriculum Elective 9 | 3 |
|  | PUBH 101 | Public Health Sciences: Principles and Practice | 3 |
|  | PUBH 202 | Health, Behavior and Society | 3 |
| Total Credit Hours in Semester |  |  | 15 |
| Spring |  | Core Curriculum Elective 10 | 3 |
|  |  | Core Curriculum Elective 11 | 3 |
|  | PUBH 201 | Environmental Health And Disease | 3 |
|  | PUBH 205 | Research Methods For Public Health | 3 |
|  | PUBH 241 | Biostatistical Methods For Public Health | 3 |
| Total Credit Hours in Semester |  |  | 15 |


| THIRD YEAR (30 credit hours) |  |  |  |
| :---: | :---: | :---: | :---: |
| Term | Course \# | Course Title | Credit Hours |
| Fall | PUBH 301 | Public Health Ethics | 3 |
|  | PUBH 303 | Epidemiology | 3 |
|  | PUBH 306 | Public Health Systems, Management, And Policy Development | 3 |
|  | PUBH 221 | Contemporary Health Issues | 3 |
|  | PUBH 222 | Foundations Of Health Education | 3 |
| Total Credit Hours in Semester |  |  | 15 |
| Spring | PUBH 320 | Health Communication | 3 |
|  | PUBH 390 | Field Experience | 3 |
|  | PUBH 310 | Needs Assessment Methods For Health Education Programs | 3 |
|  |  | Major Elective 1 | 3 |
|  |  | Major Elective 1 | 3 |
| Total Credit Hours in Semester |  |  | 15 |



Study Plan for Health Management Concentration Bachelor of Sciences in Public Health


| SECOND YEAR ( 30 credit hours) |  |  |  |
| :---: | :---: | :---: | :---: |
| Term | Course \# | Course Title | Credit Hours |
| Fall |  | Core Curriculum Elective 7 | 3 |
|  |  | Core Curriculum Elective 8 | 3 |
|  |  | Core Curriculum Elective 9 | 3 |
|  | PUBH 101 | Public Health Sciences: Principles and Practice | 3 |
|  | PUBH 202 | Health, Behavior and Society | 3 |
| Total Credit Hours in Semester |  |  | 15 |
| Spring |  | Core Curriculum Elective 10 | 3 |
|  |  | Core Curriculum Elective 11 | 3 |
|  | PUBH 201 | Environmental Health And Disease | 3 |
|  | PUBH 205 | Research Methods For Public Health | 3 |
|  | PUBH 241 | Biostatistical Methods For Public Health | 3 |
|  | Total Credit Hours in Semester |  | 15 |


| FOURTH YEAR ( 30 credit hours) |  |  |  |
| :---: | :---: | :---: | :---: |
| Term | Course \# | Course Title | Credit Hours |
| Fall | PUBH 338 | Financial Management Of Health Care | 3 |
|  | PUBH 420 | Design Of Program Evaluation Systems | 3 |
|  | PUBH 430 | Health Economics | 3 |
|  |  | Major Elective 2 | 3 |
|  |  | Free Elective 1 | 3 |
| Total Credit Hours in Semester |  |  | 15 |
| Spring | PUBH 439 | Public Health Preparedness | 3 |
|  |  | Major Elective 3 | 3 |
|  |  | Free Elective 2 | 3 |
|  |  | Free Elective 3 | 3 |
|  | PUBH 499 | Capstone | 3 |
| Total Credit Hours in Semester |  |  | 15 |



College of Education Building Phone: (974) 4403-5100/5118 Website: http://www.qu.edu.qa/education

Dean
Ahmed Abdulrahman H.Y.Al-Emad
Associate Dean for Academic Affairs Aisha Ahmed M S Fakhro

Associate Dean for Research and Graduate Studies Hala Sultan Saif Al-Easa

Assistant Dean for Student Affairs
Yassir Semmar
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 educalin future of Qatar. Its mission state
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 ommunity partnerships are fostered. The college fulfills its mmitment 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 cholarly activities, and by sharing the responsibility the modernization of the country through effective partnerships.

## degree offerings

The College of Education offers the following ndergraduate degree programs:
Bachelor of Education in Primary Education with fou
concentrations:
Arabic Studies (Arabic Language, Islamic Studies and
Social Studies)
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 hree concentrations:

1. Early Childhood Special Education Services
2. Severe/Profound Disabilities

DEPARTMENT OF EDUCATIONAL SCIENCES AND PSYCHOLOGICAL SCIENCES
department of educational sciences
Education Sciences Department, Room 109 Phone: (974) 4403-5134-5169
Email: primb.ced @qu.edu.qa primaryprogram/index.php

Head
Saed Ahmad Deeb Sabah
Program Coordinators Aisha Fakhroo - Bachelor of Education in Primary Alsha Fakhroo - Bachelo Ali Al-Rabai - Bachelor of Education in Secondary Education coordinator

## Faculty

Professors
Hissa Sadia, Nassra Al Banai, Abdalla Al-Manna Hssa Saviq, 1 Romanowski, Du Xiangyum

## Associate Professors:

Ali Al-Rabai,, Mubaraka Al-Akraf, Badria Al-Ammari, Fatma Al-Moutawha, Ahmad Al-Saai, Badria Al-Mulla, Abdullah

## Abu-Tineh

Assistant Professors:
Hissa Ali Bin Ali, Latifa Al-Magseeb Maha Cherif, Hadee Al-Khatib, Mohammad Ragab and Adel Abu El Roos

## Lecturers:

Noran Emara, Add Ms. Reem Khalid, Ms. Noran Emara,
Huda Al-Kubaisi, , Aisha Al-Kaabi, Saba Mansour, Suha Abdelsatar
Teaching Assistants:
Sara Abdulrahman Al-Muftah, Lamya Ibrahim Al-Eisa,
Sara Abdulurahn
Israa Al Muftah
DEPARTMENT OF PSYCHOLOGICAL SCIENCES
Department of Psychological Sciences, Room 219
Phone: (974) 4403-5200/5206/5220
Email: PYSCH@qu.edu.qa
.edu.qa/education

Head
Asma Al-Attiyah
Program Coordinators
Clayton Keller - Special Education Master Program Coordinator

## Faculty

Maryam Al-Flassi, Hissa Fakhroo, Yahya Al-Nakeeb

## Associate Professors:

Asma Al-Attiyah, Fatima Al-Maadadi , Ahmed Al-Emadi, Batoul Khaliefa, Clayton Keller, Chris Coughlin, Ahmed Magrya, Hatem Al-Khamra, Fathi Ihmeideh

Assistant Professors: Alanood Al-Thani Tamader AI-Thani, Maha Al-Hendawi Aisha Al-Thani

## Teaching Assistants

Aisha Ahmadi
Teachers (Early Childhood Center)
Amna AI Mogaisseb, Jawza Al Shammari, Iman Shaar

## ABOUT THE DEPARTMENTS

The Department of Educational Sciences and The Department of Psychological Sciences aim to prepare
highly qualified graduates in the field of education, who wil have outstanding knowledge of the scientific foundations in their field, and exhibit practical experience and skilis esearch using scientific methods.
The Department is committed to the educational preparation of human power necessary to work at differen education institutions at different jobs and specializations ha way that qualify them for continual professional evelopment 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 Qatari 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 ducational settings.
Plan effective instruction to maximize student learning. Design instructional plans to maximize student learning. an effective educational environment.
Use current and emerging technologies in instructionally powerful ways.
- Foster successful learning experiences for all students by ddressing individual differences
Arrive at data-informed decisions by systematically examining a variety of factors and resources.
- 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 in international or governmental agencies connected with education.

Admissions Requirements
Applicants must satisfy QU defined College and Program
equirements including the minimum high school percentage requirement.
Detailab are vailable at the following link: http://www.qu.edu.qa/ students/admission/undergraduates.php

## 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

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 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, rka Studel selint parea must complete the English II Sub-package.

- ARAB 100 Arabic Language I
-ARAB 200 Arabic Language
DAWA 111 Islamic Culture
English I Sub-package (6 CH)
ENGL 110 English I
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 Science 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 English/ ESL must complete this package requirements by completing 3 CH in courses listed in the CCP defined General Skills package. Students selecting other College / Program Core Requirements package.

Supplemental College / Program Core Requirements package (3 OR 9 CH )

## package (3 OR 9 CH ) 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 UNIV
100 course and satisfy the requirements of the General
Knowledge and the General Skills packages.
ENGL 250 English for Communication I

- 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 311 Applications in Second Language Acquisition EDUC 312 Curriculum and Assessment
EDUC 313 Developing Literacy in Children
EDUC 314 Technology for Children

- EDUC 315 Child Development \& Learning

EDUC 316 Classroom Management
EDUC 317 Inclusive Classrooms
Training Course Requirements (9CH) Students must complete a minimum of 9 credit hours by completing one of the following courses depending on the selected concentration:
EDUC 481 Student Teaching - Early Childhood

EDUC 482 Student Teaching - Arabic Studies
EDUC 483 Student Teaching - Math and Science
EDUC 484 Student Teaching - English/ESL
EDUC 484 Student Teaching - English/ESL
Major Free Electives (6 CH)
Students must take a minimum of 6 credit hours from the list of courses listed below:
EDUC 200 Education and Societal Problems

- EDUC 201 Research Methodology
- EPSY 201 Introduction to Psychology
- EPSY 205 Social Psychology

EDUC 100 Phily Relation

## Concentration in Early Childhood (45 CH)

 Students must complete a minimum of 45 credit hoursby completing the following courses in the concentration

## requirements:

- EDEC 410 Play and the Theory of Movement
- EDEC 411 Health and Safety of Young Children

EDEC 412 Community Outreach and Resources
Children

- EDEC 4

Children

- EDEC 453 Teaching Arabic Language to Young Children - EDEC 454 Integrated Social Studies to Young Children - EDEC 456 ESL and Young Children
- BIOL 100 Introduction to Life Science
- GEOL 101 Principals of Geology
- GEOG 110 General Geography
- ENGL 150 Essay Writing I
- ENGL 156 Introduction to Literature
- ARAB 213 Grammar I
- DAWA 113 Philosophy of Sirah


## Concentration in Math and Science ( 45 CH )

Students must complete a minimum of 45 credit hours
by completing the following courses in concentration
requirements:
EDPR 410 Reading and Writing in all Disciplines EDPR 450 Teaching Primary Level Science EDPR 451 Teaching Primary Level Mathematics EDPR 452 Methods in Inquiry and Research BIOL 101 Biology I
IOL 102 Biology II

- CHEM 103 Experimental General Chemistry - CHEM 101 General Chemistry I

PHYS 183 Introduction to General Physics
GEOL 101 Principles of General Geology
MATH 103 Intermediate Algebra

- MATH 104 Basic Geometry and Measures

MATH 203 Basic Analysis
ENGL 150 Essay Writing
Concentration in Arabic Studies (45 CH) Students must complete a minimum of 45 credit hours by completing the following courses in concentration equirements:

- 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 Literature and Language - ARAB 218 Morphology
- ARAB 213 Grammar

ARAB 319 Grammar II

- ISLA 103 Quranic Exegesis

DAWA 113 Philosophy of Sirah
ISLA 106 Jurisprudence of Worship

## 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 ) EDPR 453 Teaching Primary Level English (ESLI) EDPR 454 Teaching Primary Level English (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 157 Introduction to Linguistics
ENGL 158 Introduction to Literature II
ENGL 309 Second Language Acquisition
ENGL 353 Sounds of English
ENGL 354 Structure of the English Language ENGL 426 Children's Literature

## English/ESL Concentration Supplementary

Requirements (3 CH)
MATH 104 Basic Geometry and Measures

1. Study Plan for the Math and Sciences Concentration Bachelor of Education in primary Education

| FIRST YEAR (30 credit hours) |  |  |  |
| :---: | :--- | :--- | :---: |
| Term | Course \# | Course Title | Credit <br> Hours |
|  | Core |  | 3 |
|  | Core |  | 3 |
|  | Core |  | 3 |
|  | EDUC 310 | Foundations of Educa- <br> tion in Qatar and School <br> Reform | 3 |
| Spring | Total Credit Hours in Semester | 15 |  |
|  | Core |  | 3 |
|  | EDUC 312 | Curriculum \& Assessment | 3 |
|  | Core |  | 3 |
|  | EDUC 201 | Research Methodology | 3 |
|  | EDUC 315 |  <br> Learning | 3 |
| Total Credit Hours in Semester |  |  |  |


| THIRD YEAR (29 credit hours) |  |  |  |
| :---: | :--- | :--- | :---: |
| Term | Course \# | Course Title | Credit <br> Hours |
|  | MATH 203 | Basic Analysis | 3 |
|  | ENGL 150 | Essay Writing I | 3 |
|  | PHYS 183 | Introduction to General <br> Physics | 3 |
|  | EDPR 452 | Methods in Inquiry and <br> Research | 2 |
| Spring | Core |  | 3 |
|  | 14 |  |  |
|  | Core |  | 3 |
|  | EDPR 450 | Teaching Primary Level <br> Science | 3 |
|  | EDUC 316 | Classroom Management | 3 |
|  | Core |  | 3 |
|  | Core |  | 15 |
|  | EDUC 318 | Integrating Visual Arts |  |
| Total Credit |  |  |  |


| SECOND YEAR (34 credit hours) |  |  |  |
| :---: | :---: | :---: | :---: |
| Term | Course \# | Course Title | Credit |
| Fall | CHEM 101 | General Chemistry I | 3 |
|  | CHEM 103 | Experimental General Chemistry I | 1 |
|  | Core |  | 3 |
|  | EDUC 317 | Inclusive Classrooms | 3 |
|  | EDUC 313 | Developing Literacy in Children | 3 |
|  | BIOL 101 | General Biology I | 3 |
| Total Credit Hours in Semester |  |  | 16 |
| Spring | EDUC 314 | Technology for Children | 3 |
|  | BIOL 102 | General Biology II | 3 |
|  | MATH 103 | Intermediate Algebra | 3 |
|  | MATH 104 | Basic Geometry and Measures | 3 |
|  | GEOL 101 | General Geology | 3 |
|  | EDUC 311 | Applications in Second Language Acquisition | 3 |
|  | Total Credit | urs in Semester | 18 |


| FOURTH YEAR (27 credit hours) |  |  |  |
| :---: | :--- | :--- | :---: |
| Term | Course \# | Course Title | Credit <br> Hours |
|  | EDPR 410 | Reading and Writing in all <br> Disciplines | 3 |
|  | Core |  | 3 |
|  | BIOL 221 | Basic Ecology | 3 |
|  | STAT 101 | Statistics 1 | 3 |
|  | EDPR 451 | Teaching Primary Level <br> mathematics | 3 |
|  | Core |  | 3 |
| Total Credit Hours in Semester |  |  | 18 |
| Spring | EDUC 483 | Student Teaching - Math <br> and SCience | 9 |
| Total Credit Hours in Semester |  |  | 9 |



| Term | Course \# | Course Title | Credit Hours |
| :---: | :---: | :---: | :---: |
| Fall | ARAB 213 | Grammar Arabic | 3 |
|  | BIOL 100 | Introduction to Life Science | 3 |
|  | Core |  | 3 |
|  | EDUC 317 | Inclusive Classrooms | 3 |
|  | EDUC 313 | Developing Literacy in Children | 3 |
|  | ENGL 150 | Essay Writing I | 3 |
| Total Credit Hours in Semester |  |  | 18 |
| Spring | EDUC 311 | Applications in Second Language Acquisition | 3 |
|  | EDEC 411 | --- Health and Safety of Young Children | 2 |
|  | MATH 103 | Intermediate Algebra | 3 |
|  | EDEC 410 | Play and the Theory of Movement | 2 |
|  | EDUC 314 | Technology for Children | 3 |
|  | GEOG 110 | General Geography | 3 |
| Total Credit Hours in Semester |  |  | 16 |


3. Study Plan for Arabic Studies Bachelor of Education in primary Education


SECOND YEAR ( 33 credit hours)

| Term | Course \# | Course Title | Credit Hours |
| :---: | :---: | :---: | :---: |
| Fall | ISLA 105 | Analytical Hadith | 3 |
|  | HIST 222 | The Gulf in Modern Period | 3 |
|  | ARAB 110 | Introduction to Language and Literature | 3 |
|  | EDUC 313 |  | 3 |
|  | EDUC 317 | Inclusive Classrooms | 3 |
| Total Credit Hours in Semester |  |  | 15 |
| Spring | EDUC 311 | Applications in Second Language Acquisition | 3 |
|  | Core |  | 3 |
|  | EDUC 314 | -- Technology for Children | 3 |
|  | ARAB 218 | Morphology | 3 |
|  | ISLA 106 | jurisprudence of Worship | 3 |
|  | ARAB 213 | Arabic Grammar 1 | 3 |
| Total Credit Hours in Semester |  |  | 18 |


4. Study Plan for English

Bachelor of Education in primary Education

| FIRST YEAR (30 credit hours) |  |  |  |
| :---: | :---: | :---: | :---: |
| Term | Course \# | Course Title | Credit Hours |
| Fall | Core |  | 3 |
|  | Core |  | 3 |
|  | Core |  | 3 |
|  | EDUC 310 | Foundations of Education in Qatar and School Reform | 3 |
|  | Elective |  | 3 |
| Total Credit Hours in Semester |  |  | 15 |
| Spring | Core |  | 3 |
|  | EDUC 312 | Curriculum \& Assessment | 3 |
|  | EDUC 201 | Research Methodology | 3 |
|  | Core |  | 3 |
|  | EDUC 315 | Child Development \& Learning | 3 |
| Total Credit Hours in Semester |  |  | 15 |

THIRD YEAR ( 33 credit hours)

| Term | Course \# | Course Title | Credit Hours |
| :---: | :---: | :---: | :---: |
| Fall | Core |  | 3 |
|  | Core |  | 3 |
|  | ENGL 353 | Sounds of English | 3 |
|  | ENGL 354 | Structure of the English Language | 3 |
|  | EDPR 453 | Teaching Primary Level English I | 3 |
|  | Core |  | 3 |
| Total Credit Hours in Semester |  |  | 18 |
| Spring | EDPR 455 | Teaching Primary Level Reading | 3 |
|  | EDPR 454 | Teaching Primary Level English II | 3 |
|  | Core |  | 3 |
|  |  | Integrating Visual Arts | 3 |
|  | EDUC 316 | -- Classroom Management | 3 |
| Total Credit Hours in Semester |  |  | 15 |


| SECOND YEAR (33 credit hours) |  |  |  |
| :---: | :---: | :---: | :---: |
| Term | Course \# | Course Title | Credit Hours |
| Fall | BIOL 100 | Introduction to Life Science | 3 |
|  | EDUC 313 | ---- Developing Literacy in Children | 3 |
|  | ENGL 156 | Introduction to Literature I | 3 |
|  | EDUC 317 | Inclusive Classrooms | 3 |
|  | ENGL 155 | Introduction to Language | 3 |
| Total Credit Hours in Semester |  |  | 15 |
| Spring | $\begin{aligned} & \text { EDUC } \\ & 314 \end{aligned}$ | Technology for Children | 3 |
|  | ENGL 153 | Essay Writing II | 3 |
|  | MATH 103 OR Math 104 | Intermediate Algebra OR Basic Geometry and Measures | 3 |
|  | ENGL 157 | Introduction to Linguistics | 2 |
|  | ENGL 158 | Introduction to Literature II | 3 |
|  | EDUC 311 | Applications in Second Language Acquisition | 3 |
|  | Total Credit | Lours in Semester | 18 |

## FOURTH YEAR (24 credit hours)

| Term | Course \# | Course Title | Credit <br> Hours |
| :---: | :---: | :--- | :---: |
|  | EDPR 410 | Reading and Writing in all <br> Disciplines | 3 |
|  | Core |  | 3 |
|  | ENGL 309 | Second Language Acqui- <br> sition | 3 |
|  | ENGL 426 | Children's Literature | 3 |
|  | Core |  | 3 |
| Total Credit Hours in Semester |  |  | 15 |
| Spring | EDER 481 <br> EDUC 484 | Student Teaching <br> English | 9 |
|  | Total Credit Hours in Semester |  |  |  |

## BACHELOR OF EDUCATION IN SECONDARY

## Objectives

- Gain the knowledge, skills, and dispositions necessary
for secondary school teachers.
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 datainformed 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.
ed decisions by systematically
Actively 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 prepared to seek employment in the educational sector
namely private, as well as government-run secondary 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 Applicants must satisfy QU defined College and
requirements including the minimum high school percentage requirement.
Detailed Undergraduate admission requirements are available at the following link: http://www.qu.edu.qa/ students/admission/undergraduates.php

## Declaring the major

ludents must satisfy QU requirements for declaring major including the need to declare the major before 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 mee
with their adviser before declaring their major. Admission into the program is competitive due to intake capacity limitations.

EGGREE REQUIREMENTS

## 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
equirements

- A minimum of 36 credit hours of major core requirements - A minimum of 6 credit hours of major electives A Auirements


## Core Curriculum Requirements ( 33 CH )

 Common package ( 15 CH )Satisfying this package requirements depend on the the course on Islamic Culture listed below, students must he course on Islamic Culture listed below, students must 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 Subpackage. Stcomplete 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

Language II sub-package (12 CH)
-ARAB 100 Arabic Language I
ARAB 200 Arabic Language
ENGL 110 English I
ENGL 111 English II
Language III sub-package ( 12 CH )
ARAB 100 Arabic Language I
ARAB 200 Arabic Language II ENGL 203 English Language II Post Foundation

## Language IV sub-package (12 CH)

Social/Behavioral Sciences package (3CH) Courses in the CCP defined Social/Behavioral Science 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 pat of the Humanitiesfine 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:

- GEOL 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 package. Students selecting other concentration areas must complete the Supplemental College / Program Cor 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 package Students selecting other concentration areas must complete the Supplemental College / Program Cor 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 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

ENGL 251 English for Communication II

## 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
DOC 312 Curriculum and Assessment
EDUC 316 Classroom Management
EDUC 320 Human Classroom
EDSE 332 Second Language Acquisition in the Secondary Classroom
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 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 Englis 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 creart hours from the courses isted belowEDSE 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
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 $\mathbf{C H}$ )

 Students selecting the Mathematics concentration are must take a minimum of 6 credit hours from the course sted belowEDSE 344 Methods I: Instructional Strategies for Mathematics

## EDSE 464 Methods II: Inquiry and ICT for Mathematic

## 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

EDSE 345 Methods I: Instructional Strategies for Physic

- EDSE 465 Methods II: Inquiry and ICT for Physics


## Methods for Chemistry sub-package (6 CH)

tudents selecting the Chemistry concentration area must保 the courses listed
-EDSE 346 Methods I: Instructional Strategies for
Chemistr

- EDSE 466 Methods II: Inquiry and ICT for Chemistry


## Methods for Biology sub-package ( 6 CH )

Students selecting the Biology concentration area must ake a minimum of 6 credit hours from the courses listed elow
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
ist of courses listed below
EDUC 100 Photography
EDUC 200 Education and Societal Problems
EDUC 201 Research Methodology
EPSY 201 Introduction to Psychology

- EPSY 205 Social Psychology


## Concentration in Arabic ( 45 CH )

Students must complete a minimum of 45 credit hours completing the following courses in concentration requirements:

Arabic Concentration Requirements ( 45 CH )
ARAB 213 Grammar
ARAB 218 Grammar

- ARAB 221 Classical Arabic Poetry I
- ARAB 224 Classical Arabic Prose
- ARAB 261 Rhetoric

ARAB 319 Grammar II
ARAB 331 Classical Arabic Criticism
ARAB 351 Introduction to Linguistic
ARAB 355 Applied Ling
ARAB 381 Modern and Contemporary Arabic Poetry
ARAB 391 Literary Research; Sources and Methods ARAB 412 Readings and Linguistics Tradition ARAB 481 Modern Literary Criticism

ARAB 483 Comparative Literature
Concentration in English/ESL (45 CH) tudents must complete a minimum of 42 credit hours 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
NGGL 55 Introduction to Language
ENGL 157 Introduction to Linguistics
ENGL 158 Introduction to Literature II ENGL 226 History of the English Language ENGL 230 Professional Writing
ENGL 303 Sociolinguistics
ENGL 305 First Language Acquisition ENGL 330 The Short Story
ENGL 354 Structure of the English Languag TRAN 312 Linguistic Comparison of Arabic and English - ENGL 408 Post-Colonial Literature

## English/ESL Concentration Supplementary

## Requirements (3CH)

ENGL 209 Language and Society ENGL 213 Language and Cuiture

## Concentration in Social Studies ( 45 CH )

 Students must complete a minimum of 45 credit hours by completing the following courses in concentration equirements:Social Studies Concentration Requirements ( 45 CH ) GEOG 110 General Geography
GEOG 344 Political G Arab
GEOG 441 Geography of Qatar HIST 103 An Introduction to History
HIST 111 History of the Muslim Word I ( $600-1187$ C.E.)
HIST 131 World History since 1300
HIST 212 History of the Muslim Word II (1187-1516 C.E.)
HIST 213 Modern Arab History (1516-1919)
HIST 314 Economic and Social History of the Muslim
INTA 102 Introduction to Political Science
INTA 206 Globalization
SOCI 120 Introduction to Sociology
SOCI 361 Human Rights
requirements:

## Concentration in Biology ( 45 CH )

ts must complete a minimum of 45 credit hours by completing the following courses in concentration requirements:

Biology Concentration Requirements ( 45 CH ) -BIOL 101 Biology 1

- GEOL 101 Principles of Geology
- MARS 101 Introduction to Marine Science
- PHYS 110 General Physics For Biology
- CHEM 101 General Chemistry

CHEM 103 General Chemistry

- CHEM 209 Fundamentals in Organic Chemistry
- CHEM 351 Basic Biochemistry
- CHEM 352 Experimental Biochemistry
- BIOL 102 Biology II
- BIOL 110 Human Biology

BIOL 212 Genetics
BIOL 241 Microbiology
BIOL 311 Molecular Biol

- 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 Experimental General Chemistry

- CHEM 104 Experimental General Chemistry II - BIOL 101 Biology I

GEOL 101 Principles of Geology
PHYS 183 Introduction to General Physics
CHEM 212 Organic Chemistry I
CHEM 221 Inorganic Chemistry I

- CHEM 222 Experimental Inorganic Chem
- CHEM 231 Analytical Chemistry I
- CHEM 234 Experimental Analytical Chem - CHEM 241 Physical Chemistry I
- CHEM 242 Experimental Physical Chemistry - CHEM 321 Inorganic Chemistry II

CHEM 351 Basic Biochemistry
-CHEM 352 Experimental Basic Biochemistry

## Concentration in Physics ( 45 CH )

Students must complete a minimum of 45 credit hours by completing the following courses in concentration

Physics Concentration Requirements ( 45 CH )
PHYS 101 General Physics I
PHYS 102 General Physics II
BIOL 101 Biology I
MATH 101 Calculus

- MATH 102 Calculus II

MATH 211 Calculus III
CHEM 101 General Chemistry
CHEM 103 Experimental General Chemistry !
PHYS 115 Electricity \& Magnetism
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
- PHYS 101 General Physics
- GENG 106 Computer Programming

MATH 211 Calculus III

- MATH 213 Differential Equations

MATH 220 Foundations of Mathematics
MATH 222 Real Analysis I
MATH 231 Linear Algebra
MATH 233 Abstract Algebra
MATH 335 Number Theory
MATH 341 Modern Geometr

- MATH 366 Numerical Analysis


## Concentration in Islamic Studies (45 CH)

Students must complete a minimum of 45 credit hours by completing the following courses in concentration requirements:
slamic 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
Bundations of Islamic Civilization
LA 302 Family Law
SLA 308 Contemporary Intellectual Trend
DAWA 207 Islamic Institutions
FIQH 303 Fiqh of Zakat and Awqaf
USUL 335 Contemporary Studies in Quran and Sunna
USUL 407 Thematic Exegesis
USUL 439 Contemporary Muslim World

Study Plan for Secondary Education
Bachelor of Education in Secondary Education

| Term | Course \# | Course Title | Credit Hours |
| :---: | :---: | :---: | :---: |
| Fall |  | General Core | 3 |
|  |  | General Core | 3 |
|  | EDUC 310 | Foundation of Education \& School Reform | 3 |
|  |  | General Core | 3 |
|  |  | Concentration Course | 3 |
| Total Credit Hours in Semester |  |  | 15 |
| Spring |  | General Core | 3 |
|  |  | General Core | 3 |
|  | EDUC 312 | Curriculum and Assessment | 3 |
|  | EDUC 320 | Human Development | 3 |
|  |  | Concentration Course | 3 |
|  |  | Concentration Course | 3 |
| Total Credit Hours in Semester |  |  | 18 |

## THIRD YEAR ( 33 credit hours)

| Term | Course \# | Course Title | Credit <br> Hours |
| :--- | :--- | :--- | :--- |
| Fall |  | General Core | 3 |
|  | EDSE 332 | Second Language <br> Acquisition in Second <br> Language | 3 |
|  |  | General Core | 3 |
|  |  | Concentration Course | 3 |
|  |  | Concentration Course | 3 |


| Total Credit Hours in Semester |  |  | 15 |
| :--- | :--- | :--- | :--- |
| Spring | EDSE 34x | Methods I: Instructional <br> Strategies for $X$ | 3 |
|  |  | Concentration Course | 3 |
|  |  | Concentration Course | 3 |
|  |  | Concentration Course | 3 |
| Total Credit Hours in Semester |  |  | 15 |


| SECOND YEAR (33 credit hours) |  |  |  |
| :---: | :---: | :---: | :---: |
| Term | Course \# | Course Title | Credit Hours |
| Fall |  | General Core | 3 |
|  |  | Elective in Major | 3 |
|  |  | Concentration Course |  |
|  |  | Concentration Course | 3 |
|  |  | Concentration Course | 3 |
| Total Credit Hours in Semester |  |  | 15 |
| Spring |  | General Core | 3 |
|  |  | General Core | 3 |
|  | EDUC 317 | Inclusive Classrooms | 3 |
|  | EDSE 331 | Reading and Writing Across the Curriculum | 2 |
|  |  | Concentration Course | 3 |
|  |  | Concentration Course | 3 |
| Total Credit Hours in Semester |  |  | 18 |



BACHELOR OF EDUCATION IN SPECIAL EDUCATION

## Objectives

Support the mission of Qatar University to provide experts needed for Qatari Society.
Provide highly qualified primary teachers, so that all hildren 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 powerful ways
- Foster successful learning experiences for all students by addressing individual differences
Arrive at dala-ifiot ded decisions by systematically xamining a variety of factors and resources. contributing to the knowledge base in education and Apply professional ethics in all educational contexts. Lead positive change in education.


## Opportunities

Graduates from the Special Education major are prepared seek employment in the educational sector, name Other possible job opportunities are also connected w 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 equirements including th
Detailed Undergraduate admission requirements are vailable at the following link: http://www.qu.edu.qa students/admission/undergraduates.php
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 for the bachelor in Special Education must hav passed the courses EDUC 310, EDUC 312, and EDUC 315 with a minimum grade of " C " and with a minimum
overall GPA of 2.0/4.0. Applicants must complete an interview and meet with their adviser before declaring their . in a 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

- 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 200 Arabic Language
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 $\mathbf{C H}$ )

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

## Natural Science/Mathematics package (3 CH )

Courses in the CCP defined Natural Science/Mathematic package.

Supplemental College / Program Core Requirements

## package (9 CH)

ENGL 250 English for Communication
ENGL 251 English for Communication
有 First Year Seminar

## Major Requirements (39 CH)

Students must complete 39 CH from the Major Core equirements package

- EDUC 310 Fou
-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
SED 303 Behavior Management in Special Education - 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
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 Schoo Settings
SPED 430 Students with Autism and Intellectua
-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 )
Concentration Requirements ( 36 CH) Education Services Concentration Area must complete a minimum of 36 credit hours by completing the following courses in concentration requirements:
EDEC 410 Play and the Theory of Movement
- EDEC 411 Health and Safety of Young Children

EDEC 412 Community Outreach and Resources SPED 410 Infants, Toddlers, and Young Children with - SPED 411

SPED 411 Assessment in Early Childhood Special

- SPED 412 Curriculum and Methods in Early Childhood Special Education
- SPED 413 Planning and Programming in Early Childhood Special Education
- SPED 414 Early Childhood Language and

Communication

- SPED 415 Early Childhood Social and Emotional
- SPED 416 Ea
- SPED 481 Student Teaching: Early Childhood Special Education


## School-Based Special Education Concentration

Requirements ( 36 CH )
Students who choose the School-Based Special Education Concentration Area must complete a minimum of 36 credit hours by completing the following courses in concentration requirements:

- EDPR 410 Reading and Writing in All Discipline
- SPED 420 Children and Youth with Disabilities
- SPED 421 Assessment for School-Based Special Education
- SPED 422 Curriculum and Methods for School-Based Special Education
- SPED 423 Planning and Programming for School-Based
- 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 427 Transition Planning
- SPED 482 Student Teaching: School-Based Special

Education

## Severe and Profound Disabilities Concentration

Requirements ( 36 CH )
Students who choose the Severe and Profound Disabilities Concentration Area must complete a minimum of 36 credit hours by completing the following courses in concentration requirements:
-EDEC 410 Play and the Theory of Movement - EDEC 411 Health and Safety of Young Children - SPED 427 Transition Planning

- SPED 430 Students with Autism and Intellectua

Disabilities

- SPED 431 Students with Physical, Health, and Sensory

Disabililies
SPED 432 Assessment Practices for Severe and SPED 432 Assessm
SPofound Disabilities
SPED 433 Curriculum and Methods for Severe and - SPED 434 Planning and Programming for Severe and Profound Disabilities

- SPED 435 Applied Behavior Analysis for Instruction SPED 436 Communication for Severe and Profound Disabilities
SPED 483 Student Teaching: Severe and Profound Disabilities

Study Plan for the B.Ed. in Special Education
Early Childhood Special Education Services Concentration


| SECOND YEAR (34 credit hours) |  |  |  |
| :---: | :---: | :---: | :---: |
| Term | Course \# | Course Title | Credit Hours |
| Fall | EDUC 313 | Developing Literacy in Children | 3 |
|  | EDUC 314 | Technology for Children | 3 |
|  | EDEC 412 | Community Outreach and Resources | 2 |
|  | SPED 301 | Foundations of Special Education | 3 |
|  | SPED 302 | Survey of Exceptionalities | 3 |
|  |  | General Core | 3 |
| Total Credit Hours in Semester |  |  | 17 |
| Spring |  | Elective | 3 |
|  | EDEC 410 | Play and Theory of Movement | 3 |
|  | SPED 303 | Behavior Management in Special | 3 |
|  | SPED 304 | Collaboration with Families and Professionals | 2 |
|  |  | General Core | 3 |
|  |  | General Core | 3 |
|  | Total Credit Hours in Semester |  | 17 |


| FOURTH YEAR (24 credit hours) |  |  |  |
| :--- | :--- | :--- | :--- |
| Term | Course \# | Course Title | Credit <br> Hours |
| Fall | SPED 413 | Planning and Program- <br> ming in Early Childhood <br> Special Education | 3 |
|  | SPED 414 | Early Childhood Lan- <br> guage and <br> Communication | 3 |
|  | SPED 415 | Early Childhood Social <br> and Emotional Develop- <br> ment | 3 |
|  | SPED 416 | Early Childhood Motor <br> Learning | 3 |
| Total Credit Hours in Semester |  |  |  |

Study Plan for the B.Ed. in Special Education
School-Based Special Education Concentration

| FIRST YEAR (33 credit hours) |  |  |  |
| :---: | :---: | :---: | :---: |
| Term | Course \# | Course Title | Credit Hours |
| Fall |  | General Core | 3 |
|  |  | General Core | 3 |
|  | EDUC 310 | Foundation of Education \& School Reform | 3 |
|  |  | General Core | 3 |
|  |  | General Core | 3 |
| Total Credit Hours in Semester |  |  | 15 |
| Spring | EDUC 312 | Curriculum and Assessment | 3 |
|  | EDUC 315 | Child Development and Learning | 3 |
|  |  | General Core | 3 |
|  |  | General Core | 3 |
|  |  | General Core | 3 |
|  | Total Credi | Semester | 18 |


| THIRD YEAR (33 credit hours) |  |  |  |
| :---: | :---: | :---: | :---: |
| Term | Course \# | Course Title | Credit Hours |
| Fall | EDPR 410 | Reading and Writing in All Disciplines | 3 |
|  | SPED 305 | Inclusive Practices through Special Education | 3 |
|  | SPED 306 | Educational Psychology for Special Educators | 3 |
|  | SPED 307 | Assistive Technology | 3 |
|  | SPED 420 | Children and Youth with Disabilities | 3 |
|  |  | Electives | 3 |
| Total Credit Hours in Semester |  |  | 18 |
| Spring | SPED 308 | Promotion of Mental Health in Children and Youth | 3 |
|  | SPED 421 | Assessment for School-Based Special | 3 |
|  | SPED 422 | Curriculum and Methods for School-Based | 3 |
|  | SPED 427 | Transition Planning | 3 |
|  |  | Electives | 3 |
|  | Total Cred | Hours in Semester | 15 |


| Term | Course \# | Course Title | Credit Hours |
| :---: | :---: | :---: | :---: |
| Fall | EDUC 313 | Developing Literacy in Children | 3 |
|  | EDUC 314 | Technology for Children | 3 |
|  | SPED 301 | Foundations of Special Education | 3 |
|  | SPED 302 | Survey of Exceptionalities | 3 |
|  |  | General Core | 3 |
| Total Credit Hours in Semester |  |  | 15 |
| Spring |  | Elective | 3 |
|  | SPED 303 | Behavior Management in Special | 3 |
|  | SPED 304 | Collaboration with Families and Professionals | 3 |
|  |  | General Core | 3 |
|  |  | General Core | 3 |
|  | Total Credit Hours in Semester |  | 15 |



Study Plan for the B.Ed. in Special Education evere and Profound Disabilities Concentratio


| THIRD YEAR (29 credit hours) |  |  |  |
| :---: | :---: | :---: | :---: |
| Term | Course \# | Course Title | Credit Hours |
| Fall | SPED 431 | Students with Physical, Health, and Sensory | 3 |
|  | SPED 305 | Inclusive Practices through Special Education | 3 |
|  | SPED 306 | Educational Psychology for Special Educators | 3 |
|  | SPED 307 | Assistive Technology | 3 |
|  |  | Electives | 3 |
| Total Credit Hours in Semester |  |  | 15 |
| Spring | SPED 308 | Promotion of Mental Health in Children and Youth | 3 |
|  | EDEC 410 | Play and Theory of Movement | 2 |
|  | SPED 432 | Assessment Practices for severe | 3 |
|  | SPED 433 | Curriculum and Methods for severe | 3 |
|  |  | Electives | 3 |
| Total Credit Hours in Semester |  |  | 14 |



## FOURTH YEAR ( 24 credit hours)

| FOURTH YEAR (24 creait hours) |  |  |  |
| :--- | :--- | :--- | :--- |
| Term | Course \# | Course Title | Credit <br> Hours |
| Fall | SPED 434 | Planning and <br> Programming for Severe | 3 |
|  |  | Applied Behavior Analysis | 3 |
|  | SPED 435 | A |  |
|  | SPED 436 | Applied Behavior Analysis | 3 |
|  | SPED 427 | Transition Planning | 3 |
|  |  | Electives | 3 |


| Total Credit Hours in Semester |  |  | 15 |
| :--- | :--- | :--- | :--- |
| Spring | SPED 483 | Student Teaching: Severe <br> and Profound | 9 |
| Total Credit Hours in Semester |  |  | 9 |

## Section)

Phone: (974) 4403-5000 / 5005
mail: bus-econ@qu.edu.qa
Website: http://www.qu.edu.qa/business
Dean
Khalid Shams M A AI-Abdulqader
Associate Dean for Academic Affairs Adam Fadlalla

## Associate Dean for Business Relations and

 EngagementDr. Khalid Shams Abdulqader
Associate Dean for Research and Graduate Studies Belaid Aoun
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 continuou 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 professiona standards of their respective disciplines, consistent with our mission and values thus producing quality applied 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 with a major in Finance
- Bachelor of Business Administration with a major in Economics
- Bachelor of Business Administration with a major in Management

Business Administration with a major in

## DEPARTMENT OF ACCOUNTING AND

 INFORMATION SYSTEMSCollege of Business and Economics Building Room C123
Phone: (974) 4403-5055
Email: accounting@qu.edu.qa / mis@qu.edu.qa Website: http://www.qu.edu.qa/business/accounting/ index.php

Head
Ousama Abdulrahman Anam
Faculty
Professors:
Khaled Alshare, Adam Fadlalla, Nitham Hindi

## Associate Professors:

Khaled Al-Khater, Emad Awadallah, Mohammad Elbashir

## Assistant Professors:

Habib Ullah Khan, Jennifer Ziegelmayer, Mazen El-Masri, Mohammad Alomari, Karim Al-Yafi, Rajab Abdallah Al-Esmail, Zaki Abu Shawish, Husam Aldamen Shahriar Saadullah, Fethi Saidi, Ghassan Mardini, Mohamed Nagy Osman, Adel Elgharabawy, Hazem smael Ramadan, Ahmed Ali Mohammad, Sameh Ammar Abdulsamad Mohammed, Issa Dawd

## AbOUT THE DEPARTMENT

The Department of Accounting and Information Systems offers a major in Accounting and a minor in Information offers a major in Accounting and a minor in Information
Systems. Accounting is commonly known as 'the language 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 iterprets this information, and thus is an integral membe of the leadership team of any organization. The intense 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.

## ACHELOR OF BUSINESS ADMINISTRATION

 IN ACCOUNTING
## Objectives

- Provide students with high quality academic, technica and professional knowledge to pursue a career in accounting.
- Prepare students with technical and analytical skills and competencies in accounting.
Conduct research issues in business decision making accounting.
- Promote effective interaction with the business community.


## Learning Outcomes

Graduates of the Bachelor of Business Administration in Accounting are expected to
Demonstrate effective written communication skills;
Demonstrate effective oral communication skills;
Utilize information technology in making business
decisions;

- Incorporate the ethical dimensions in business decisionmaking;
Work effectively in teams;
Solve accounting related problems
Incoporate the social responsibility dimensions in


## 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 are accounting and auditing firms, banks, ins employeyers 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 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/

## tudents/admission/undergraduates.ph

## 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 Accounting

A minimum of 125 credit hours $(\mathrm{CH})$ are required to
complete the Bachelor of Business Administration, major in Accounting, including the following:
A minimum of 33 credit hours in university core
curriculum requirement
A minimum of 42 credit hours in college core requirement.
A minimum of 6 credit hours in college supporting equirement.
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 mino equirements and electives
A minimum of 5 credit hours in University free elective requiremen
Core Curriculum Program Requirements (33 credit hours)
n package ( 15 CH )
ARAB 100 Arabic Language
ARAB 200 Arabic Language II
ENGL 110 English I
DAWA 111 Islamic Culture
Social/Behavioral Sciences package (3CH) Courses in the CCP defined Social/Behavioral Science 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
ENGL 252 English for Business Communication UNIV 100 First Year Seminar

College Core Requirements ( 42 CH )
ludents must complete the following list of courses:
ACCT 116 Managerial Accounting
ECON 111 Principles of Microeconomis

- 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 405 Strategic Management
MATH 221 Business Math II
STAT 220 Business Statistics
STAT 222 Business Statistics II
College Supporting Requirements ( 6 CH )
Students must complete the following list of courses
MATH 119 Business Math

## Major Requirements ( 15 CH )

tudents must complete the following list of courses
ACCT 221 Intermediate Accounting I
ACCT 331 Cost \& Management Accountin
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 4113 Auditing
ACCT 418 Advanced Accounting
ACCT 419 Internal Audit I
ACCT 424 International Accounting

Minor or No Minor Requirements ( 15 CH ) Students with a major in Accounting may choose a mino 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 CBE excluding the student declared major.

## University Free Elective Requirements (5 CH)

 Students must complete a minimum of 5 credit hours in free university electivesMinor in Accounting ( 15 CH )
Sudents must complete a minimum of 12 CH in the mino core requirements and animum of 3 CH in the mino ectives
nor in Accounting Core Requirements ( 12 CH ) following courses:
ACCT 221 Intermediate Accounting I
ACCT 222 Intermediate Accounting II
ACCT 331 Cost \& Management Accounting - ACCT 333 Auditing I

## Accounting Minor Electives (3 CH)

Sudents seeking a minor in Accounting must complete 3
CH from the following courses:

- ACCT 411 Governmen

ACCT 413 Auditing II

- ACCT 418 Advanced Accou

ACCT 419 Internal Audit I
ACCT 42 Incoung Information Systems
ACCT 428 Fincial Accounting

Study Plan for Accounting Major Bachelor of Business Administration in Accounting

| FIRST YEAR (30 credit hours) |  |  |  |
| :---: | :---: | :---: | :---: |
| Term | Course \# | Course Title | Credit Hours |
| Fall | ENGL110 | English I | 3 |
|  | ARAB100 | Arabic Language | 3 |
|  | xxxxnnn | Humanities/Fine Arts Package | 3 |
|  | XxXXNNN | Social/Behavioral Sciences Package | 3 |
|  | DAWA 111 | Islamic Culture | 3 |
| Total Credit Hours in Semester |  |  | 15 |
| Spring | ENGL111 | English II | 3 |
|  | XxXnnn | Qatar \& Gulf History Package | 3 |
|  | ARAB200 | Arabic Language II | 3 |
|  | MATH103 | Intermediate Algebra | 3 |
|  | MAGT101 | Principles of Management | 3 |
|  | Total Credit | s in Semester | 15 |


| THIRD YEAR (30 credit hours) |  |  |  |
| :---: | :---: | :---: | :---: |
| Term | Course \# | Course Title | Credit Hours |
| Fall | ACCT221 | Intermediate Accounting I | 3 |
|  | АССт331 | Cost \& Management Accounting | 3 |
|  | MAGT304 | Production \& Operations Management | 3 |
|  | xxxxnnn | Course from Minor or Free College Elective | 3 |
|  | MIST201 | Introduction to MIS | 3 |
| Total Credit Hours in Semester |  |  | 15 |
| Spring | ACCT222 | Intermediate Accounting II | 3 |
|  | АССТзз3 | Auditing I | 3 |
|  | xxxxnnn | Course from Minor or Free College Elective | 3 |
|  | LAWC215 | Business Law | 3 |
|  | MAGT307 | Internship in Business (Summer Only) | 3 |
|  | Total Credit Hours in Semester |  | 15 |


| SECOND YEAR (36 credit hours) |  |  |  |
| :--- | :--- | :--- | :--- |
| Term | Course \# | Course Title | Credit <br> Hours |
| Fall | ENGL250 | English for Commnication | 3 |
|  | STAT220 | Business Stat I | 3 |
|  | MATH119 | Business Math I | 3 |
|  | ECON111 | Microeconomics | 3 |
|  | MAKT101 | Principles of Marketing | 3 |
|  | ACCT110 | Financial Accounting | 3 |
| Total Credit Hours in Semester |  |  |  |
| Spring | FINA201 | Principles of Finance | 3 |
|  | STAT222 | Business Stat II | 3 |
|  | ACCT116 | Managerial Accounting | 3 |
|  | ECON112 | Macroeconomics | 3 |
|  | MATH221 | Business Math II | 3 |
|  | ENGL252 | English for Business <br> Communication | 3 |
|  | Total Credit |  |  |  |

BACHELOR OF BUSINESS ADMINISTRATION IN ANGEMENT INFORMATION SYSTEMS

## bbectives

The Management Information Systems major aims to prepare students for positions of leadership and
specifically, the major focuses on the following objectives

- Provide students with high quality academic, technical
and professional knowledge to pursue a career in
information systems.
Prepare students with technical and analytical skills and ompetencies in information systems.
Conduct research that contribiness decision making ormation systems.
Promote effective
community.
Learning Outcomes
Graduates of the Bachelor of Business Administration in Management Information Systems are expected to:
Demonstrate ability to critically analyze, design, and
mplement information systems.
decisions.
Apply basic research skills to community business
problems
Incorporate the ethical dimensions in business decisionmaking.
global perspective in making decisions related to information systems.


## Opportunities

The Management Information Systems 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. Graduates in Managemen 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 percentage requirement.
Detailed Undergraduate admission requirements are
available at the following link: http://www.qu.edu.qa tudents/admission/undergraduates.php

## Declaring the major

Students must satisfy QU requirements for declaring a major. In addition, students should be in good academic tanding and should obtain approval from their academic student affairs.

## DEGREE REQUIREMENTS

## Major in Management Information System

A minimum of 125 credit hours are required to complet the Bachelor of Business Administration, major in
Management Information Systems, including the following:

- A minimum of 33 credit hours in university core

Aurriculum requirement
A minimum of 42 credit hours in college core requirement A minimum of 6 credit hours in college supporting equirement.
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
equirements and electives
A minimum of 5 credit hours in University free elective equirement
Core Curriculum Program Requirements (33 credit hours)
Common package ( 15 CH )
ARAB 100 Arabic Language
ARAB 202 Arabic Language 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.

## 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 art of the Humanities/Fine Arts package.

Natural Science/Mathematics package (3 CH)
Math 103 Intermediate Algebra
Supplemental College/Program core requirements ackage (3 CH)
UNIV 100 First Year Seminar

General Skills package ( 3 CH )
udent must complete 3 CH from courses listed in the CP defined General Skills package.

General Knowledge package (3 CH )
tudent must complete 3 CH from courses listed in the CCP defined General Knowledge package.

## College Core Requirements ( 42 CH )

Students must complete the following list of courses
ACCT 110 Financial 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
MATH 221 Business Math II
MTAT 220 Business Statistics

- STAT 222 Business Statistics II

College Supporting Requirements (6 CH)
Students must complete the following list of courses
MATH 119 Business Math
LAWC 215 Business Law
Major Requirements ( 15 CH )
Students must complete the following list of courses:

- MIST 310 Systems Analysis and Design

MIST 320 Data and Information Management
MIST 330 IT Infrastructure and Enterprise Architecture MIST 360 IS Strategy, Management, and Acquisition MIST 460 Information Systems Project Management

Major Electives (9CH)
Students must complete the following list of courses:
MIST 331 Enterprise Systems

- MIST 390 Special Topics in Information System

MIST 420 Business Intelligence
MIST 440 Applications Development
MIST 443 Internet Applications Development
MIST 450 IT Governance and Security

## Minor Requirement for students majoring in MIS (15

 CH )To complete their degree requirements, students enrolled in the MIS major must complete 15 CH from courses
isted in either a minor in Accounting, in Management, in inance, in Marketing, in Economics, in Entrepreneurship
inor in Management Information Systems ( 15 CH ) Students must complete a minimum of 12 CH in the minor core requirements and a minimum of 3 CH in the minor electives
Management Information Systems Minor Cor Requirements ( 12 CH )

Or in Management Information Systems must complete the following courses

MIST 310 Systems Analysis and Design
MIST 320 Data and Information Management
MIST 330 IT Infrastructure and Enterprise Architecture MIST 460 Information Systems Project Management

## Mana

CH
Students seeking a minor in Management Information Systems must complete 3 CH from the following courses: MIST 331 Enterprise Systems - MIST 360 IS Strategy, Management, and Acquisition

MIST 390 Special Topics in Information System

- MIST 420 Business Intelligence

MIST 440 Applications Development
MIST 443 Internet Applications Developme
MIST 450 IT Governance and Security

Study Plan for Management Information Systems Major
Bachelor of Business Administration in Management Information Systems



## DEPARTMENT OF FINANCE AND ECONOMICS

College of Business and Economics Building Room C121 (Women's Section) Phail: fin-econ@qu.edu.qa Website: $\mathrm{http}: / / w w w . q u . e d u . q a / b u s i n e s s / f i n a n c e / i n d e x$. php
Head
Dr. Rami Zeitun
Faculty

Protessors:
Ritab Al-Khouri, Saif Al-Sowaidi, Mohammed Omran, Nedal Al-Fayoumi, Idries Al-Jarrah.
Associate Professors
Akram Temimi, Khalid Shams Abdulgader, Issam Tlemsan
Assistant Professors
Mohamed Eissa, Hend Ghazzai, Ishrat Hossain, Simeon Kaitibie, Syed Asif Raza, Elias Shukralla, Rami Zeitun, Mohammed Elgammal, Kaouthar Souki, Houda Arouri, brahim Lotfi, Mohamed Elafif, Mohamed Sami Ben Ali, Ahmed Khalifa, Alaa Soliman, Hisham Alrefai, Rana Hani Hendy, Salem Nechi, Shaif Jarallah, Zouhair Mrabet.

## ABOUT THE DEPARTMENT

The Department of Finance and Economics is oriented ward 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 prominent teaching and research in Economics and Finance, and to offer rigorous programs focusing on to business economic development and natural resource management. ECONOMICS

## Objectives

The Economics major aims to prepare students for positions of leadership and responsibility in contemporary followizations. Miectives:

- Providing a rigorous, thorough, and meaningful education in Economics for our undergraduate students.
- Providing our students with an awareness of economic institutions, concepts, and problems; and to use tha
wareness to develop the ability to think like an economis hen making decisions.
Providing service to our constituents by giving talks,
responding to inquiries, and responding through the popular press to economic issues.
- Promoting an understanding of the economy by conducting applied economic analysis for industry, non-profit institutions, and government.
Providing a well-balanced combination of high quality eaching and research


## Learning Outcomes

Upon the successful completion of a Bachelor of Business and Economics majoring in Finance, a student will be able to: 1. Demonstrate effective written and oral communications
. Utilize information technology in making busines decisions.
3. Appreciate social responsibilities and ethical dimensions of usiness decision- making.
Foster global perspective in both appreciation and pplication.
5. Able to solve economics-related problems.

## Opportunities

The Economics major prepares undergraduate students for careers in business and to pursue graduate studies. Graduates in Economics find employment in governmen agencies, non-governmental organizations, international agencies, and 1 en privale sector. Our graduates from designers of business models and as forecasters.

## Admissions Requirements

Applicants must satisfy QU defined College and Program requirements including the minimum high school percentage equirement.
Detailed Undergraduate admission requirements are vailable at the following link: http://www-qu.edu.qa/students admission/undergraduates.php

## 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

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
equirement.
A minimum of 42 credit hours in college core requirement
A minimum of 6 credit hours in college supporting

## equirement.

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
equirements and electives.

- A minimum of 5 credit hours in University free elective equirement.


## Core Curriculum

## 33 credit hours)

ommon package ( 15 CH )
ARAB 100 Arabic Language I
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 par of the Humanities/Fine Arts package

Watural Science/Mathematics package (3 CH )
Math 103 Intermediate Algebra

## Supplemental Coliege / Program core requirement

## package (9 CH)

ENGL 250 English for Communication I
ENGL 252 English for Business Communicatio
UNIV 100 First Year Seminar
College Core Requirements ( 42 CH )
tudents must complete the following list of courses:
ACCT 110 Financial 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 304 Production \& Operations Management
MAGT 304 Production \& Operations Management
MAGT 405 Strategic Managemen
MATH 221 Business Math II
STAT 220 Business Statistics I
STAT 222 Business Statistics II

College Supporting Requirements ( 6 CH )
tudents must complete the following list of courses
MATH 119 Business Math
LAWC 215 Business Law

Major Requirements ( 15 CH ) owing list of course
ECON Must complete thicroeconomics
ECON 212 Intermediate Macroeconomics
ECON 214 Monetary Polic
ECON 214 Monetary Policy
ECON 453 International Economics

## Major Electives (9 CH)

tudents 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 475 Contemporary Topics in

## 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 Mino option is for Students who are not seeking any particular rom available courses in any major offered at CBE excluding
from available courses in and
niversity Free Elective Requirements ( 5 CH ) Students must complete a minimum of 5 credit hours in free university electives

## MINORIN 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 mino core requirements and a minimum of 3 CH in the minor ectives

Minor in Economics Core Requirements (12CH) Students seeking a minor in Economics must complete the Students seeking a

- ECON 211 Intermediate Microeconomics

ECON 212 Intermediate Macroeconomics
ECON 214 Monetary Policy
ECON 453 International Economics

Economics Minor Electives (3 $\mathbf{C H}$ )
Students seeking a minor in Economics must complete 3 CH
rom the following courses
ECON 451 Economic Development

- ECON 452 Industrial Economics

ECON 454 Economics of Energy
ECON 472 Managerial Economics
ECON 475 Contemporary Topics in Economics

Study Plan for Economics
Bachelor of Business Administration in Economics

| FIRST YEAR (30 credit hours) |  |  |  |
| :---: | :---: | :---: | :---: |
| Term | Course \# | Course Title | Credit Hours |
| Fall | ENGL110 | English I | 3 |
|  | ARAB100 | Arabic Language | 3 |
|  | xxxxnnn | Humanities/Fine Arts Package | 3 |
|  | xxxxnnn | Social/Behavioral Sciences Package | 3 |
|  | DAWA111 | Islamic Culture | DAWA111 |
| Total Credit Hours in Semester |  |  | 15 |
| Spring | ENGL111 | English II | 3 |
|  | xxxxnnn | Qatar \& Guff History Package | 3 |
|  | ARAB200 | Arabic Language II | 3 |
|  | MATH103 | Intermediate Algebra | 3 |
|  | MAGT101 | Principles of Management | 3 |
| Total Credit Hours in Semester |  |  | 15 |


| THIRD YEAR (30 credit hours) |  |  |  |
| :---: | :---: | :---: | :---: |
| Term | Course \# | Course Title | Credi Hours |
| Fall | MIST201 | Introduction to MIS | 3 |
|  | MAGT304 | Production and Operations Mgmt | 3 |
|  | ENGL251 | English | 3 |
|  | ECON 211 | Intermediate Microeconomics | 3 |
|  | ECON 214 | Monetary Policy | 3 |
|  | xxxxnnn | Course from Minor or Free College Elective | 3 |
| Total Credit Hours in Semester |  |  | 15 |
| Spring | ECON 212 | Intermediate Microeconomics | 3 |
|  | ECON 311 | Econometrics | 3 |
|  | xxxxnnn | Course from Minor or Free College Elective | 3 |
|  | LAWC215 | Business Law | 3 |
|  | MAGT307 | Internship in Business (Summer Only) | 3 |
|  | Total Credit Hours in Semester |  | 15 |


| SECOND YEAR (36 credit hours) |  |  |  |
| :---: | :---: | :---: | :---: |
| Term | Course \# | Course Title | Credit Hours |
| Fall | ENGL250 | English for Communication I | 3 |
|  | STAT220 | Business Stat I | 3 |
|  | MATH119 | Business Math I | 3 |
|  | ECON111 | Microeconomics | 3 |
|  | MAKT101 | 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 |
|  | ENGL252 | English for Business Communication |  |
|  | MATH221 | Business Math II | 3 |
|  | Total Credit Hours in Semester |  | 18 |
| FOURTH YEAR (29 credit hours) |  |  |  |
| Term | Course \# | Course Title | Credit Hours |
| Fall |  | University Free Elective | 2 |
|  | ECON 453 | International Economics | 3 |
|  | ECONNNN | Economics Elective | 3 |
|  | ECONNNN | Economics Elective | 3 |
|  | xxxxnnn | Course from Minor or Free College Elective | 3 |
| Total Credit Hours in Semester |  |  | 14 |
| Spring | xxxxnnn | University Free Elective | 3 |
|  | ECONNNN | Economics Elective | 3 |
|  | XXXXNNN | Course from Minor or Free College Elective | 3 |
|  | MAGT405 | Strategic Management | 3 |
|  | XxXXNNN | Course from Minor or Free College Elective | 3 |
|  | Total Credit Hours in Semester |  | 15 |

## BACHELOR OF BUSINESS ADMINISTRATION IN

bectives
The Finance major aims to prepare students for positions of leadership and responsibility in contemporary organizations. More specifically, the major focuses on the

- Providing a rigorous, thorough, meaningful and effective - Providing a rigorous, thorough, meaningful and effective - Providing our students with an awareness of economic thancial instiutions, concepts, and problems, and financial economist when making decisions
- Providing services to our constituents by giving talks, responding to inquiries, and responding through the
popular press to economic and finance issues
- Promoting an understanding of the economy by conducting applied financial analysis for industry, non-profit institutions and government
ced combination of high quality
teaching and research
Learning Outcomes
Upon the successful completion of a Bachelor of Business and Economics majoring in Finance, a student will be able to:

1. Demonstrate effective written communication skills 2. Demonstrate effective oral communication skills;

Identify social responsibilities dimensions of finance
decision making
4. Evaluate global perspective in finance
. Solve finance related problems using technology;
6. Appreciate ethical dimension of finance decision making

## Opportunities

The Finance major prepares undergraduate students for careers in business and to pursue graduate studies. Graduates in Finance find employment in government agencies, 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

Admplicants must satisfy QU defined College and Program requirements including the minimum high school ercentage requirement.
Detailed Undergraduate admission requirements are alable at the following link: http://www.qu.edu.qa/ students/admission/undergraduates.php

## 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 partment, 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, ncluding the following
A minimum of 33 credit hours in university core
curriculum requirement
A minimum of 42 credit hours in college core requiremen
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 equirements and electives

5 credit hours in University free elective requirement

## hours)

Common package ( 15 CH )

- ARAB 100 Arabic Language I

ARAB 200 Arabic Language 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 Students must complete a minimum of 3 Credit Hours fro
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)
NGL 250 English for Communication 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
MAKT 101 Principles of Marketing
MIST 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 Managemen
MATH 221 Business Math
STAT २22 Business Statistics II

## College Supporting Requirements (6 CH)

Students must complete the following list of courses
MATH 119 Business Math

- LAWC 215 Business Law


## Major Requirements ( 15 CH )

ollowing list of courses:
FIN 302 Corporate Finance

- FINA 304 International Finance

FINA 401 Portfolio Management

## Major Electives (9 CH)

Students must complete a minimum of 9 credit hours in ourses selected from the following list:
FINA 403 Insurance and Risk
FINA 404 Islamic Banking \& Finangeme
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 a CBE excluding the student declared major.
University Free Elective Requirements (5 CH)
Students must complete a minimum of 5 credit hours in free university electives

## minor in finance

The Minor in Finance is offered for students from the College of Business and Economics (CBE).

## Minor in Finance ( 15 CH )

tudent comple a minimum of 12 CH in the mino
core requirements and a minimum of 3 CH in the mino
linor in Finance Core Requirements ( 12 CH )
Students seeking a minor in Finance must complete the
following courses:
FINA 301 Corporate Finance
FINA 302 Investment
FINA 303 Financial Markets \& Institution
FINA 401 Portfolio Management

## Finance Minor Electives (3 CH)

Students seeking a minor in Finance must complete 3 CH
from the following courses.
FNA 04 International Finance
FINA 402 Personal Finance
FINA 403 Insurance and Risk Management
FINA 404 Islamic Banking \& Financ
FINA 406 Mancial Dent of Financial Intermediari

Study Plan for Finance
Bachelor of Business Administration in Finance

| FIRST YEAR (30 credit hours) |  |  |  |
| :---: | :---: | :---: | :---: |
| Term | Course \# | Course Title | Credit Hours |
| Fall | ENGL110 | English I | 3 |
|  | ARAB100 | Arabic Language I | 3 |
|  | XxxXnNn | Humanities/Fine Arts Package | 3 |
|  | xxxXnNN | Social/Behavioral Sciences Package | 3 |
|  | DAWA111 | Islamic Culture | 3 |
| Total Credit Hours in Semester |  |  | 15 |
| Spring | ENGL111 | English II | 3 |
|  | XxXXNNN | Qatar \& Guff History Package | 3 |
|  | ARAB200 | Arabic Language II | 3 |
|  | MATH103 | Intermediate Algebra | 3 |
|  | MAGT101 | Principles of Management | 3 |
| Total Credit Hours in Semester |  |  | 15 |


| THIRD YEAR (30 credit hours) |  |  |  |
| :---: | :---: | :---: | :---: |
| Term | Course \# | Course Title | Credit Hours |
| Fall | MIST201 | Introduction to MIS | 3 |
|  | MAGT304 | Production and Operations Mgmt | 3 |
|  | FINA 301 | Corporate Finance | 3 |
|  | FINA 302 | Investments | 3 |
|  | xxxxnnn | Course from Minor or Free College Elective | 3 |
| Total Credit Hours in Semester |  |  | 15 |
| Spring | FINA NNN | Finance Elective | 3 |
|  | FINA 402 | Personal Finance | 3 |
|  | XXXXNNN | Course from Minor or Free College Elective | 3 |
|  | LAWC215 | Business Law | 3 |
|  | MAGT307 | Internship in Business | 3 |
| Total Credit Hours in Semester |  |  | 15 |



## DEPARTMENT OF MANAGEMENT AND MARKETING

College of Business and Economics Building
Room C129
Phone: (974) 4403-5030 / 5034
Website: http://www.qu.edu.qa/business/management/ index.php
Head
Bader Abdullah Al-Esmae!

## Faculty

Professors
Marios Katsioloudes, Omar Ben Ayed, Belaid Aouni, Shobha Das.
Associate Professors:
Abdulkareem Awwad, Amit Das,, Khurram Sharif, Hend Abdul-Rahan Amro Maher, Naia US Saker Alserhan, Nishat Faisal.

## Assistant Professors:

Bader Al-Esmael, Khalid Mohamed Al-Horr, Galanou Ekaterini, Anas Al-Bakri, Ahmad Mehrez, , Ahmed Alamro, Abdel Latif Anouze, Abdullah Al Jafari, Dalia Farrag, Imene Becheur, Yasir Yasin, Tamer Elsharnouby, Nabil Ghantous.

## 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
following objectives:

To ensure that our academic programs and courses are relevant to current and emerging practice and reflect industry equirements.
To attract and retain qualified and talented students. problems and make sound 'ability to solve management-related

Learning Outcomes
Graduates of the Bachelor of Business Administration in Management are expected to:
Demonstrate effective written communication skills.
Demonstrate an understanding of human behavior and
management of human resources in organizations.
Demonstrate an understanding of sustainability dimensions
making managerial decisions. 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 manager, mana and private institutions, and other general management and leadersh positions.

## Admissions Requirements

Admissionts must satisfy QU defined College and Program requirements including the minimum high school percentage equirement.
Detailed Undergraduate admission requirements are available t the following link: http://www.qu.edu.qa/students/admission undergraduates.php

## 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, A minimum of 42 credit hours in college core requirem requirement.

- A minimum of 15 credit hours in major requirements. - A minimum of 9 credit hours in major electives. 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 200 Arabic Language I
- ARAB 200 Arabic Language 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 CCP defined Humanities/Fine Arts package. Students must complete a minimum of 3 Credit Hours from courses listed in the Qatar and Gulf History Sub-package which is part of the Humanities/Fine Arts package.
Natural Science/Mathematics package (3 $\mathbf{C H}$ ) - 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 116 Financial Accounting
- ECON 111 Principles of Microeconomi
- 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

- MATH 221 Business Math II
- STAT 220 Business Statistics

STAT 222 Business Statistics II
College Supporting Requirements ( 6 CH ) Students must complete the following list of courses: MATH 119 Business Math
LAWC 215 Business Law

## lajor Requirements ( 15 CH )

Students must complete the following list of courses
MAGT 302 Human Resource Management
MAGT 303 Entrepreneurship \& SBM
MAGT 306 International Business
MAGT 406 Total Quality Management

## Major Electives (9 CH)

Students must complete a minimum of 9 credit hours in courses selected from the following list:
MAGT 305 Comparative Management
MAGT 401 Quantitative Methods
MAGT 402 Organization
MAGT 403 E-Business

- MAGT 404 Project Management


## Minor or No Minor Requirements

Students with a major in Management may choose a minor in Accounting, in Management Information Systems, in Finance, in Marketing, in Economics, in International Business or the No mino option.

University Free Elective Requirements (5 CH) Students must complete a minimum of 5 credit hours in free university electives.

## MINOR IN MANAGEMENT

The Minor in Management is offered for students from the College of Business and Economics (CBE).

## Minor in Management ( 15 CH )

The Minor in Management is offered for students from the College f Business and Economics (CBE).
tudents 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
ollowing courses:
MAGT 302 Human Resource Management
MAGT 303 Entrepreneurship \& Small Business Management MAGT 406 Total Quality Managemen

Management Minor Electives (3 CH)
Students seeking a minor in Management must complete 3 CH from he following courses

MAGT 301 Organizational Behavior
MAGT 401 Quantitative Methods for Decision Making
MAGT 402 Organization Theory

- MAGT 403 E-Business 404 Project Management

Study Plan for Management
Study Plan for Management
Bachelor of Business Administration in Management

| FIRST YEAR (30 credit hours) |  |  |  |
| :---: | :---: | :---: | :---: |
| Term | Course \# | Course Title | Credit Hours |
| Fall | ENGL110 | English I | 3 |
|  | ARAB100 | Arabic Language | 3 |
|  | XXXXNNN | Humanities/Fine Arts Package | 3 |
|  | XxxXnNN | Social/Behavioral Sciences Package | 3 |
|  | DAWA111 | Islamic Culture | 3 |
| Total Credit Hours in Semester |  |  | 15 |
| Spring | ENGL111 | English II | 3 |
|  | Xxxxnnn | Qatar \& Guff History Package | 3 |
|  | ARAB200 | Arabic Language II | 3 |
|  | MATH103 | Intermediate Algebra | 3 |
|  | MAGT101 | Principles of Management | 3 |
| Total Credit Hours in Semester |  |  | 15 |


| THIRD YEAR (30 credit hours) |  |  |  |
| :---: | :---: | :---: | :---: |
| Term | Course \# | Course Title | Credit Hours |
| Fall | MIST201 | Introduction to MIS | 3 |
|  | MAGT304 | Production and Operations Mgmt | 3 |
|  | MAGT 301 | Organization Behavior | 3 |
|  | MAGT 302 | Human Resource Mgmt | 3 |
|  | XXXXnNN | Course from Minor or Free College Elective | 3 |
| Total Credit Hours in Semester |  |  | 15 |
|  | MAGT 306 | International Business | 3 |
|  | MAGTNNN | Management Elective | 3 |
|  | Xxxxnnn | Course from Minor or Free College Elective | 3 |
|  | LAWC215 | Business Law | 3 |
|  | MAGT307 | Internship in Business | 3 |
|  | Total Credit Hours in Semester |  | 18 |



| FOURTH YEAR (29 credit hours) |  |  |  |
| :---: | :---: | :---: | :---: |
| Term | Course \# | Course Title | Credit Hours |
| Fall | Xxxxnnn | University Free Elective | 2 |
|  | MAGTNNN | Management Elective | 3 |
|  | MAGT 303 | Entrepreneurship and Small Business Management | 3 |
|  | MAGTNNN | Management Elective | 3 |
|  | xxxxnnn | Course from Minor or Free College Elective | 3 |
| Total Credit Hours in Semester |  |  | 14 |
| Spring | xxxxnnn | University Free Elective | 3 |
|  | xxxxnnn | Course from Minor or Free College Elective | 3 |
|  | MAGT 406 | Total Quality Management | 3 |
|  | MAGT405 | Strategic Management | 3 |
|  | Xxxxnnn | Course from Minor or Free College Elective | 3 |
| Total Credit Hours in Semester |  |  | 15 |

## BACHELOR

## Objectives <br> Objectives

This major aims to prepare students for positions organizations. More specifically, the Marketing majo 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 s and make sound decisions in complex

Learning Outcomes
Graduates of the Bachelor of Business Administration in Marketing are expected to:
Demonstrate effective written communication skills. Demonstrate effective oral communication skills. dimensions in making marketing decisions.

- Demonstrate the ability to critically analyze marketing issues and apply functional area knowledge to solve the problems.
- Demonstrate the ability to understand the global issues and their implications for organizations operating in a global economy.


## Opportunities

The Marketing major prepares undergraduate students or 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 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 equirements including the minimum high school rcentage requirement
available at the following link: http://wwwirements are students/admission/undergraduates.php

## 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 dvisors, head ondentment, 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:

33 credit hours in university core curriculum equirement.
A minimum of 42 credit hours in college core requirement. A minimum of 6 credit hours in college supporting equirement.
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 equirements and electives.

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
ENGL 110 English
ENGL 11 Engish II

## 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 curses listed in the Qatar and Gulf History Sub-package art of the Humanities/Fine Arts package.

## lathematics package (3 CH )

 Math 103 Intermediate Algebra
## Supplemental College /Program core requirements

package (9 CH)
ENGL 250 English for Communication
ENGL 252 English for Business Communication UNIV 100 First Year Seminar
ollege Core Requirements ( 42 CH ) Students must complete the following list of courses: ACCT 110 Financial Accounting ECON 111 Principles of Microeconomics

ECON 112 Principles of Macroeconomics
MAKT 101 Principles of Marketing
FINA 201 Principles of Financ
MAGT101 Principles of Management
MAGT 304 Production \& Operations Management

- MAGT 307 Internship in Business

MAGT 405 Strategic Management
MATH 221 Business Math II
STAT 220 Business Statistics
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
MAKT 301 Consumer Behavior
MAKT 302 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 Manageme
MAKT 403 E-Marketing
MAKT 404 Service Marketing

- MAKT 406 Business-to Business Marketing


## Minor or No Minor Requirements ( 15 CH )

Students with a major in Marketing may choose a mino Students with a major in Marketing may choose a ming in Economics, in Management, in Accounting, in Internationa Business, in Entrepreneurship or the No minor option. Th particular minor and who must then complete 15 Credit Hours taken from available courses in any major offered a CBE excluding the student declared major.

## University Free Elective Requirements (5 CH)

 Students must complete a minimum of 5 credit hours in ree university electives
## 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).
requr
 electives

## Minor in Marketing Core Requirements (12 CH)

Students seeking a minor in Marketing must complete the
ollowing courses:
MAKT 301 Consumer Behavior
MAKT 302 Marketing Managemen
MAKT 401 Marketing Research

## arketing Minor Electives (3 CH)

Students seeking a minor in Marketing must complete 3
CH from the following courses:
MAKT 304 Strategic Marketing
MAKT 402 Sales Management
MAKT 403 E-Marketing
MAKT 405 Promotion Manage MAKT 406 Business-to Business Marketing

| FIRST YEAR (30 credit hours) |  |  |  |
| :---: | :---: | :---: | :---: |
| Term | Course \# | Course Title | Credit Hours |
| Fall | ENGL110 | English I | 3 |
|  | ARAB100 | Arabic Language I | 3 |
|  | xxxxnnn | Humanities/Fine Arts Package | 3 |
|  | xxxxnnn | Social/Behavioral Sciences Package | 3 |
|  | DAWA111 | Islamic Culture | 3 |
| Total Credit Hours in Semester |  |  | 15 |
| Spring | ENGL111 | English II | 3 |
|  | xxxxnnn | Qatar \& Guff History Package | 3 |
|  | ARAB200 | Arabic Language II | 3 |
|  | MATH103 | Intermediate Algebra | 3 |
|  | MAGT101 | Principles of Management | 3 |
|  | Total Credit Hours in Semester |  | 15 |


| SECOND YEAR (36 credit hours) |  |  |  |
| :---: | :---: | :---: | :---: |
| Term | Course \# | Course Title | Credit Hours |
| Fall | ENGL250 | English for Communication I | 3 |
|  | STAT220 | Business Stat I | 3 |
|  | MATH119 | Business Math I | 3 |
|  | ECON111 | Microeconomics | 3 |
|  | MAKT101 | 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 |
|  | ENGL252 | English for Business Communication | 3 |
|  | MATH221 | Business Math II | 3 |
| Total Credit Hours in Semester |  |  | 18 |



## 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 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.

## Internation

Students seeking a minor in International Business mus complete the following courses. Students who 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.
MAKT 303 International Marketing
FINA 304 International Finance

- 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 Acco
ECON 214 Monetary Policy
FINA 303 Financial Markets \& Institutions
-MAGT 305 Comparative Management

- MAKT 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 electives
Minor in Entrepreneurship Core Requirements (12 CH)
Students must complete a minimum of 12 credit hours in Students must complete
Minor required courses:

- MAGT 303 Entrepreneurship and Small Business Management
- MAGT 328 Business Planning for Entrepreneurs - FINA 410 Financing for Entrepreneurial Ventures


## MAGT 329 Building \& Sustaining Successful Enterprise

## Entrepreneurship Minor Electives (3 CH)

Students seeking a minor in Entrepreneurship must complete 3 CH in the following courses: AACT 331 Cost \& management Accounting ACCT 421 Accounting Inform
FINA 402 Personal Finance
MAGT 302 Human Recourses Managemen MAKT 401 Marketing Research

## MINOR IN BUSINESS FOR NON-BUSINESS STUDENTS

This minor is available to all Qatar University students xcept 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 already completed one or more courses in he minor core requirements as part of their major must take additional courses to complete the minor 24 CH requirement
## Minor in Business for Non-Business Core

Requirements ( 24 CH )
Requirements ( 24 CH ) in in must complete the following courses. - MAGT 101 Principles of Managemen MAKT 101 Principles of Marketing ACCT 110 Financial Accounting ECON 111 Principles of Microeconomics ECON 112 Principles of Macroeconomics STAT 220 Business Statistics I FINA 201 Principles of Finance


## College of engineering

College of Engineering Research and Graduate Studies uilding- B09, Room 117
Phone: (974) 4403 -4100 / 410
Website: $\mathrm{http}: / / w w w . q u . e d u . q a / e n g i n e e r i n g / i n d e x . p h p$
Dean
Khalifa Nasser AI-Khalifa
Associate Dean for Academic Affairs Mohammed Samaka

Associate Dean for Research and Graduate Studies Abdelmagid Salem Hammuda

Associate Dean for Development and Industria
Relations
Saud Ghani
Assistant Dean for Student Affairs
Aljazzi Hamad Fetais
ABOUT THE COLLEGE
The College of Engineering, established in 1980, serve he State of Qatar by preparing graduates in a wide range of engineering disciplines, as well as in computing the region for its outstanding education, research and community engagement, and for the quality of its socialy esponsible graduates. The main mission of the college to prepare globally competent and socially responsible raduates, who can compete in an international working
nvironment while taking into consideration our Islamic and Arabic heritage, as well as the local societal needs. Graduates of the college have significantly contributed to he huge industrial expansion that the State of Qatar has withessed. They are currently playing a key role in the ased economy. All the engineering programs in the ollege are accredited by the Engineering Accreditation ommission of ABET (http://www.abet.org). The Computer Science program is accredited by the Computing 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 indergraduate degree programs:
Bachelor of Architectur
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 Industrial and Systems Engineering
Bachelor of Science in Mechanical Engineering
DEPARTMENT OF ARCHITECTURE AND URBAN LANNING
College of Engineering Building, Room C07-219 (Women's Section) hone: (974) 4403-4340 / 4344 Website: http://www.qu.edu.qa/engineering/architecture

## Head (Acting)

,

Professors: Attilio Petruccioli

## Associate Professors

Hatem Ibrahim
Assistant Professors:
Djamel Boussaa, Fodil Fadli, Lizmol Mathew, Djamel uahrani, Anna Grichting Solder, M. Salim Ferwati, Shaibu Bala Garba, Mahmoud Essam Hallak, Raffaello Furlan, Rashid Saad Al-Matwi, Silvia Mazzetto

## ABOUT THE DEPARTMENT

The Department of Architecture and Urban Planning ofters undergraduate and graduate programs ommitted to graduating professionals capable of creating clude: Bachelor of Architecture (B.Arch.) a five-year undergraduate professional degree, a two-year Maste of Urban Planning and Design (MUPD) and a Ph.D. with ocus 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 interaction with faculty members and educational acilities, studios, and laboratories that reflect up-todate instructional technology. Our faculty members are esponsive educators with research and professional expertise that foster the effective delivery of our programs.

## BACHELOR OF ARCHITECTURE

## Program Educational Objectives

The objectives of the program are to integrate knowledgebased and skill-based pedagogies in a balanced manne needed to graduate responsive

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 Qatari society and themselves distinctively in a competitive global market. 2. Culture \& Society: Striving to graduate architects who are able to, effectively 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 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 lechnological aspects of architecture
relationship Equity: Ability to recognize the dialectic the GCC/Arab region.
- Technology: Ability to utilize cutting edge building - Technology: Ability to technology in design.
- Communication \&CAD: 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 - Research; Ability to employ architectural research methods including data collection and analysis to ass 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 addition the course contents. However, they complement addition
Student Performance Criteria (SPCs) mandated by the intended accreditation agency in architecture; the Nationa Architectural Accrediting Board (NAAB) of Architecture Schools in North America.


## Opportunities

Graduates of the Architecture program enjoy multiple employment opportunities as architects working in the
fields of design and construction of architectural and urban projects. They have opportunities in government agencies, design firms, and consulting houses, real estate development companies, in addition to possibilities of establishing their own design firms. Additionally, graduate of the program may find opportunities to pursue postgraduate studies in architecture, urban design planning and built environment related disciplines, and eventual ursue advanced careers in architecture and buit environment-related realm.

## Admissions Requirements

Applicants must satisfy QU defined College and Program requirements including the minimum high schoo
percentage requirement, the Architecture Program Admission Test (APAT) which includes a written evaluation and a personal interview.
available at the folluare admission requirements are ://www.qu.edu.qa students/admission/undergraduates.php

## Declaring the major

Students must satisfy QU requirements for declaring a major before completing 36 undergraduate credit hours.

## Additional Requirements

n addition to the requirement of completing a program of 160 credit hours, which includes the senior graduation design project, students must go through compulsory he program. Practical training does not count in the overal credit hours but is mandatory. It requires a minimum of 12 weeks ( $2 \times 6$ weeks) of architectural training in design consulting firms, construction companies, architectura ngineering consultancies, or relevant government agencies.

## DEGREE REQUIREMENTS

A minimum of 160 credit hours are required to complete the major in Architecture, including the following: A minimum of 33 credit hours in Core Curriculum Requirements.
A minimum of 7 credit hours in College Requirements. A minimum of 6 credit hours in College Electives, 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.
of 16 credit hours in Civil Engineering Related

- 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

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 Behavio

 Sciences package
## Humanities /Fine Arts package (6 CH)

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

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

## General Knowledge package ( 3 CH )

Any course in the CCP defines general knowledge package.

## General Skills package (3 CH )

Any course in the CCP defines general skills package.
College Requirements (7
PHYS 191 General Physics for Engineering

- PHYS 192 General Physics for Engineering Laboratory I


## College Electives ( 6 CH )

Students must complete a minimum of 6 credit hours in ourses selected from the following list:
GENG 107 Engineering Skills and Ethics
GENG 360 Engineering Economics
IENG 330 Operations Research
MECH 485 Engineering Management

Major Supporting Electives (3 CH)
tudents must complete a minimum of 3 credit hours in ourses selected from the following list:
SOCI 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 tudios ( 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 310 Architectural Design Studio III ARCT 311 Architectural Design Studio IV ARCT 411 Architectural Design Studio V - 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/
ARCT 422 Research Mhods and Theories
C) Building Construction, Services, and Technology ( 18 CH )
ARCT 230 Materials and Methods of Buildin Onstruction I
ARCT 330 Materials and methods of Building ARCT 331 Environmental Control Systems I (Acoustics and Lighting)

- ARCT 332 Environmental Control Systems II (Sanitary and HVAC)
ARCT 333 Construction Drawing and Detailing
ARCT 531 Ethics and Professional Practice
D) Civil Engineering Related Courses (16 CH)

ARCT 240 Theory of Structures I
ARCT 241 Theory of Structures II
ARCT 242 Surveying for Architects
ARCT 340 Structures and Architectural Form I (Concrete Structures)

ARCT 341: Structures and Architectural Form II (Stee nd Shell Structures)

ARCT 3 Col
E) Practical Training Courses - Mandatory ( 0 CH )

ARCT 400 Practical Training
F) Major Electives ( 12 CH )

Students must complete a minimum of 12 credit hours in
elective courses selected from the following list:
ARCT 350 Arts in
ARCT 350 Arts in Architecture

Study Plan:
Bachelor of Architecture

| FIRST YEAR (31 credit hours) |  |  |  |
| :---: | :---: | :---: | :---: |
| Term | Course \# | Course Title | Credit Hours |
| Fall | ENGL 202 | English Language I Post Foundation | 3 |
|  | DAWA 111 | Islamic Culture | 3 |
|  | MATH 101 | Calculus I | 3 |
|  | ARCT 120 | Introduction to Architecture and Allied Arts | 3 |
|  | ARCT 110 | Graphic Communication $(1)$ (1) | 3 |
| Total Credit Hours in Semester |  |  | 15 |
| Spring | ENGL 203 | English Language II Post Foundation | 3 |
|  | ARAB 100 | Arabic Language I | 3 |
|  | PHYS 191 | General Physics for Engineering I | 3 |
|  | PHYS 192 | Experimental General Physics for Engineering | 1 |
|  | MATH 102 | Calculus II | 3 |
|  | ARCT 111 | Graphic Communication (2) | 3 |
|  | Total Credit Hours in Semester |  | 16 |

ARCT 351 Creativity and Innovatio
ARCT 420 Environment-Behavior Studie
ARCT 421 Introduction to Urban Design and Planning ARCT 430 Contract Document
ARCT 450 Interior Design, Valuation and Qualification
ARCT 451 Computer Applications in Architecture (Advanced)
ARCT 452 Contemporary Architecture in the Arab World ARCT 453 Criticism in Architecture
ARCT 520 Landscape Architecture G.I.S

- ARCT 551 Historic Preservation and Conservation



| FOURTH YEAR (34 credit hours) |  |  |  |
| :---: | :---: | :---: | :---: |
| Term | Course \# | Course Title | Credit Hours |
| Fall | ARCT 410 | Architectural Design Studio V | 5 |
|  | ARCT 530 | Construction and Project Management | 3 |
|  | ARCT XXX | Major Elective III | 3 |
|  | xxxx xxx | Core Curriculum Elective (Humanities / Fine Arts Package) | 3 |
|  | xxxx xxx | College Elective | 3 |
| Total Credit Hours in Semester |  |  | 17 |
| Spring | ARCT 411 | Architectural Design Studio VI | 5 |
|  | ARCT 422 | Research Methods in Architecture and Urban Design | 3 |
|  | ARCT XXX | Major Elective IV | 3 |
|  | xxxxxxx | Core Curriculum Elective | 3 |
|  | xxxx xxx | Core Curriculum Elective | 3 |
| Total Credit Hours in Semester |  |  | 17 |
| Summer | ARCT500 | Practical Training II | 6 weeks |
| Total Credit Hours in Semester |  |  | 17 |



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
Ramzi Taha
Faculty
tisham Eid (Civil Engineering Graduate Program Coordinator), Ramzi Taha, Murat Gunduz

## Associate Professors:

ohammed AI-Ansari, Riyadh Al-Raoush, Usama Ebead in

## Assistant Professors

Omar Al-Ansari, Hassan Al-Derham, Nasser Al-Nuaimi, halid Naji, Khaled Salah Shaaban, Onur Avci, Wael Al Nahhal, Mohammad Ghanim, and Mohsin Siddiqui

## ABOUT THE DEPARTMENT

The Department of Civil \& Architectural Engineering is ne of the six departments that constitute the College of Engineering at Qatar University. The role of the departmen central to the future growth and development of Qatar, especially in light of hosting the Football World Cup, FIFA, 2022. The department currently offers one program-Civil Engineering, which focuses on developing the knowledge ligned with Oatar's needs and future plans for the $21^{\text {st }}$ entury.
he department also provides the State of Qatar with ighly qualified engineers to meet the need of the civil engineering disciplines in the local labor market. The Civil Engineering Program is accredited by the Engineering Accreditation Commission of ABET (http://www.abet.org).

## BACHELOR OF SCIENCE IN CIVIL ENGINEERING

## Program Educational Objective

The expected accomplishments of graduates of the
 atar University are as follows.
Graduates will estabish successful civil engineering careers in industrial, governmental, and private sectors,
hat contribute to the development of the country, th egion, and beyond.
Graduates will contribute effectively to the civil engineering profession and to society by mastering felong learning - using ethical practices, and pursuing 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
Graduates of 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 meet desired needs within realistic constraints such as and safety, manuacturaility, political, ethical, health (d) an ability to function on multidisciplinary tean (e) an ability to identify, formulate, and solve engineering problems
(f) an understanding of professional and ethical esponsibility
g) an ability to communicate effectively
) the broad education necessary to understand the mpact of engineering solutions in a global, economic, (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

The rapid development currently taking place in Qatar has engineering and technology as its main backbone. Civil engineers play a significant role as specialists in building infrastructure, and therefore have an important share in this development. By offering the sole Civil Engineering Program in Qatar, the department has a leading role in all activities in the unprecedented infrastructure developmen aking place in Qatar, through providing high-quality graduates and consultation services.

Admissions Requirements equirements including the minimum high school percentage requirement.
etailed Undergraduate admission requirements are
available at the following link: http://www.qu.edu.qa/ udents/admission/undergraduates.php

## Declaring the major

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

## DEGREE REQUIREMENTS

Major in Civil Engineering
. 131 credit hours are required to complete
major in Civil Engineering, including the following
equirements.
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.

## ore Curriculum Requirements ( 33 CH )

ommon Package ( 12 CH )
ENG 100 Arabic Language I Post Foundation ENGL 203 English Language II Post Foundation AWWA 111 Islamic Culture

Social/Behavioral Sciences Package (3CH)
Any course in the CCP defined social package

## Humanities /Fine Arts Package (3 CH)

tudents must complete a minimum of 3 credit hours from
 which is part of the Humanities/Fine Arts package
Tural Science/Mathematics Package (3 CH ) MATH 101 Calculus I
upplemental C
PHYS 191 General Physics for Engineering
PHYS 192 Experimental General Physics for
Engineering I
PHYS 193 General Physics for Engineering II PHYS 194 Experimental General Physics for CHEMeering II
CHEM 103 Experimental General Chemistry

## College Requirements ( 27 CH )

MATH 102 Calculus II

MATH 217 Mathematics for Engineers GENG 106 Computer Programming GENG 107 Engineering Skills and Ethic ENG 200 Probabiity and Statistics for Engineers GENG 300 Numerical Methods GENG 111 Engineering Graphics

## Major Requirements ( 54 CH )

CVEN 210 Properties and Testing of Materials
CVEN 212 Fluid Mechanics
CVEN 213 Statics
CVEN 220 Analysis of Matrerials
CVEN 230 Geotechnical Engineering
CVEN 270 Surveying for Construction
CVEN 320 Design of Reinforced Concrete Members
CVEN321 Analysis of Indeterminate Structures
CVEN 330 Foundation Engineering I
CVEN 340 Analysis and Design of Hydraulic Systems
CVEN 350 Environmental Engineering
CVEN 360 Highway Engineering
CVEN 381 Contracts, Specifications, and Local Regulations CVEN 399 Practical Training
CVEN 401 Civil Engineering Design Project
CVEN 402 Civil Engineering Design Project
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 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 )

tudents must complete a minimum of 3 cedit hours in ourses selected from the following list
BIOL 101 Biology I
GEOL 101 Principal of General Geology

## ree Electives (2 CH)

Students must complete a minimum of 2 credit hours from courses outside the college's offering, excluding MATH P100 course.

Study Plan: Bachelor of Science in Civil Engineering

| FIRST YEAR (32 Credit Hours) |  |  |  |
| :---: | :---: | :---: | :---: |
| Term | Course \# | Course Title | Credit Hours |
| Fall | ENGL 202 | English Language I Post Foundation | 3 |
|  | GENG 106 | Computer Programming | 3 |
|  | MATH 101 | Calculus I | 3 |
|  | CHEM 101 | General Chemistry I | 3 |
|  | CHEM 103 | Experimental General Chemistry I | 1 |
|  | GENG 107 | Engineering Skills and Ethics | 3 |
| Total Credit Hours in Semester |  |  | 16 |
| Spring | ENGL 203 | English Language II Post Foundation | 3 |
|  | MATH 102 | Calculus II | 3 |
|  | PHYS 191 | General Physics for Engineering I | 3 |
|  | PHYS 192 | Experimental General Physics for Engineering | 1 |
|  | DAWA111 | Islamic Culture | 3 |
|  | GENG 111 | Engineering Graphics | 3 |
| Credit Hours in Semester |  |  | 16 |


| SECOND YEAR (36 Credit Hours) |  |  |  |
| :---: | :---: | :---: | :---: |
| Term | Course \# | Course Title | Credit Hours |
| Fall | MATH 211 | Calculus III | 3 |
|  | PHYS 193 | General Physics for Engineering II | 3 |
|  | PHYS 194 | Experimental General Physics for Engineering II | 1 |
|  | GENG 200 | Probability and Statistics for Engineers | 3 |
|  | CVEN 210 | Properties and Testing of Materials | 3 |
|  | CVEN 213 | Statics | 3 |
|  |  | Free elective | 2 |
| Total Credit Hours in Semester |  |  | 18 |
| Spring | MATH 217 | Mathematics for Engineers | 3 |
|  | CVEN 214 | Strength of Materials | 3 |
|  | CVEN 230 | Geotechnical Engineering | 3 |
|  | CVEN 220 | Analysis of Structures | 3 |
|  | CVEN 212 | Fluid Mechanics | 3 |
|  |  | Major Additional-Science Elective | 3 |
| Total Credit Hours in Semester |  |  | 18 |


| THIRD YEAR (39 credit hours) |  |  |  |
| :---: | :---: | :---: | :---: |
| Term | Course \# | Course Title | Credit Hours |
| Fall | CVEN 320 | Design of Reinforced Concrete Members | 3 |
|  | GENG 300 | Numerical Methods | 3 |
|  | CVEN 321 | Analysis of Indeterminate Structures | 3 |
|  | CVEN 330 | Foundation Engineering I | 3 |
|  | CVEN 270 | Surveying for Construction | 3 |
|  | CVEN 340 | Analysis and Design of Hydraulic Systems | 3 |
| Total Credit Hours in Semester |  |  | 18 |
| Spring | GENG 360 | Engineering Economics | 3 |
|  | CVEN 350 | Environmental Engineering | 3 |
|  | CVEN 360 | Highway Engineering | 3 |
|  | CVEN 380 | Construction Engineering | 3 |


|  |  | Major elective I | 3 |
| :--- | :--- | :--- | :--- |
|  | Core Curriculum Elective* |  | 3 |
| Total Credit Hours in Semester |  |  | 18 |
| Sum <br> mer | CVEN 399 | Practical Training | 3 |
| Total Credit Hours in Semester |  |  | 3 |


| FOURTH YEAR (24 credit hours) |  |  |  |
| :---: | :---: | :---: | :---: |
| Term | Course \# | Course Title | Credit Hours |
| Fall | CVEN 420 | Design of Steel Structures | 3 |
|  | ARAB 100 | Arabic Language I | 3 |
|  | CVEN 401 | Civil Engineering Design Project I | 1 |
|  |  | Major Elective II | 3 |
|  |  | Major Elective III | 3 |
| Total Credit Hours in Semester |  |  | 13 |
| Spring | CVEN 381 | Contracts, Specifications, and Local Regulations | 3 |
|  | CVEN 402 | Civil Engineering Design Project II | 2 |
|  |  | Major Elective IV | 3 |
|  |  | Core Curriculum Elective* | 3 |
|  | Total Credit | is in Semester | 11 |

*Student must complete a minimum of 3 credit hours from the Socia/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 / 413
mail: che@qu.edu.qa
Website: http://www.qu.edu.qa/engineering/chemical/
Head
amazan Kahraman
Faculty
rofessors:
Ramazan Kahraman, Farid Benyahia, Ibrahim Abu-Reesh Shaheen Al-Muhtaseb, Hazim Qiblawey, Majeda Khraisheh
ssociate Professors:
Mert Atilhan, Fares Abedalwally AlMomani

## ssistant Professors:

Mohamed Al-Marri, Fadwa ElJack, Mohammad Saleh, Mohammad Aman Ullah, Anand Kumar, Rahul Bhosale Essa Ismail Al-Musleh, Ujjal Kumar Ghosh, Saad Ali AlSobhi
BOUT THE DEPARTMEN
The Department of Chemical Engineering at Qatar University has 17 highly qualified faculty members and 7 orking relationship with local industry, which supports the chemical engineering program in several ways, including ofessorial chair positions, student internships, guest ectures, industrially-based graduation projects, and
process plant design award contest. articularly successful in attracting research funding from Gat National research fund and from local industry to relevance. The research priorities of the Department of Chemical Engineering are aligned with the national Torities of the state of Qatar in terms of research focus. These priorities are compatible with faculty members expertise and personal development in the areas of water reatment, carbon management, soil bioremediation atural gas, hydrocarbons processing, desalination, embrane systems and materials engineering. The leve QNRF under the NPRP and UREP schemes, and industry, sustain its research activities and train undergraduate tudents in research methods. Undergraduate students njoy a remarkable support from the research-active faculty members through UREP projects. The Chemica

Engineering Program offered by the department is
ccredited by thainering Accreditation Commission of accreaited by the Engineering

## Opportunities

Graduates of the Chemical Engineering Program enjoy a wide range of career opportunities in the oil, gas, etrochemical, desalination, power generation, water freatment, environmental regulations, and government sectors. Graduates can also pursue higher studies in

## BACHELOR OF SCIENCE IN CHEMICAL ENGINEERING

Program Educational Objectives of the Qatar University Chemical Program will:

1. Practice chemical engineering skills in chemical engineering related careers including hydrocarbon processing, power and desalination, and government takes.
Take an active role and participate in their continuous rofessional development including graduate studies whe appropriate to their career goals. careers.

Student Outcomes
The graduates of the Qatar University Chemical Engineering Program will have
apply knowledge of mathematics, science,
(b) an ability to design and conduct experiments, as well as o analyze and interpret data
c) an ability to design a system, component, or process o meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability (e) an ability to identify formulate and solve engineering
problems esponsibilit
g) an ability to communicate effectively
(h) the broad education necessary to understand the mpact of engineering solutions in a global, economic, nvironmental, and societal context
, and an ability to engage in fi) a knowledge
(k) an ability to use the techniques, skills, and modern engineering tools necessary for engineering practice.

## dmissions Requirement

Applicants must satisfy QU defined College and Program equirements including th
Detailed Undergraduate admission requirements vailable at the following link: http://www.qu.edu.qa/ students/admission/undergraduates.php

## Declaring the major

tudents must satisfy QU requirements for declaring major including the need to declare the major before mpleting 36 undergraduate credit hours.

## DEGREE REQUIREMENTS

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 equirements.
A minimum of 27 credit hours of college requirements. A minimum of 57 credit hours of major requiremen A minimum of 2 credit hours in free electives.

## Core Curriculum Requirements (33 CH)

ommon package (12 CH)
ARAB 100 Arabic Language
ENGL 202 English Language I-Post Foundation ENGL 203 English Language II-Post Foundation DAWA 111 Islamic Culture
ocial/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 ourses listed in the Qatar and Gulf History Sub-package, wich is part of the Humanities/Fine Arts package.

## atural Science/Mathematics package (3 CH )

 MATH 101 Calculus I
## Supplemental College / Program core requirements

 package ( 12 CH )PHYS 191 General Physics for Engineering PHYS 192 Experimental General Physics for Engineering I
PHYS 193 General Physics for Engineering - PHYS 194 Ex

Engineering II 101 General Chemistry I
CHEM 103 Experimental General Chemistry College Requirements ( 27 CH )
MATH 102 Calculus II

MATH 211 Calculus II
MATH 217 Mathematics for Engineer GENG 106 Computer Programming GENG 200 Probability and Statistics for Engineer GENG 300 Numerical Methods GENG 360 Engineering Economics
GENG 231 Materials Science
Major Requirements ( 57 CH )
CHEM 102 General Chemistry I
CHEM 104 Experimental General Chemistry II
CHEM 241 Physical Chenis istry
CHEM 242 Experimental Physica
CHEM 341 Physical Chemistry II
CHME 201 Introduction to Chemical Engineering
CHME 202 Introduction to Chemical Engineering CHME 212 Chemical Engineering Thermodynamics CHME 213 Fluid Mechanics
CHME 311 Heat Transf
CHME 312 Chemical Engineering Thermodynamics II
CHME 314 Chemical Reaction
CHME 315 Mass Transfer II
CHME 324 Chemical Engineering Laboratory I
CHME 325 Chemical Engineering Laboratory II
CHME 399 Practical Training
CHME 415 Computer Methods in Chemical Engineering CHME 421 Plant Design I
CHME 423 Process Contro
CHME 426 Chemical Engineering Laboratory II
Major Electives ( 12 CH )
Students must complete a minimum of 12 credit hours in elective courses selected from the following list:
CHME 413 Process Modeling \& Simulation
CHME 431 Petroleum Refining Process
CHME 435 Polymer Engineering
CHME 445 Desalination
CHME 451 Introduction to Gas Engineering
CHME 454 Natural Gas Treatment
CHME 455 Introduction to Biochemical Engineering CHME 458 Process Safety and Hazards Prevention CHME 462 Pollution Control
CHME 464 Wastewater Treatment
CHME 467 Special Topiss in Chemical Engineering I
CHME 467 Special Topics in Chemical Engineering II
CHME 474 Process Equipment Design
CHME 477 Process Integration
CHME 486 Corrosion Engineering

## Free Electives ( 2 CH )

Students must complete a minimum of 2 credit hours from
Ourses outside the College offering excluding
MATH P100 course.

Study Plan:
Bachelor of Science in Chemical Engineering

| Term | Course \# | Course Title | Credit Hours |
| :---: | :---: | :---: | :---: |
| Fall | ENGL 202 | English Language I Post Foundation | 3 |
|  | ARAB 100 | Arabic Language I | 3 |
|  | MATH 101 | Calculus I | 3 |
|  | CHEM 101 | General Chemistry I | 3 |
|  | CHEM 103 | Experimental General Chemistry I | 1 |
|  | GENG 106 | Computer Programming | 3 |
| Total Credit Hours in Semester |  |  | 16 |
| Spring | ENGL 203 | English Language II Post Foundation | 3 |
|  | MATH 102 | Calculus II | 3 |
|  | PHYS 191 | General Physics for Engineering I | 3 |
|  | PHYS 192 | Experimental General Physics for Engineering I | 1 |
|  | CHEM 102 | General Chemistry II | 3 |
|  | CHEM 104 | Experimental General Chemistry II | 1 |
|  | GENG 107 | Engineering Skills and Ethics | 3 |
|  | Total Credit Hours in Semester |  | 17 |



| Term | Course \# | Course Title | Credit Hours |
| :---: | :---: | :---: | :---: |
| Fall | MATH 217 | Mathematics for Engineers | 3 |
|  | GENG 200 | Probability and Statistics for Engineers | 3 |
|  | CHME 311 | Heat Transfer | 3 |
|  | CHME 312 | Chemical Engineering Thermodynamics II | 3 |
|  | CHME 313 | Mass Transfer I | 3 |
|  | CHME 324 | Chemical Engineering Laboratory I | 1 |
| Total Credit Hours in Semester |  |  | 16 |
| Spring | GENG 231 | Materials Science | 3 |
|  | GENG 360 | Engineering Economics | 3 |
|  | CHME 314 | Chemical Reaction Engineering | 3 |
|  | CHME 315 | Mass Transfer II | 3 |
|  | CHME 325 | Chemical Engineering Laboratory II | 1 |
|  | DAWA111 | Islamic Culture | 3 |
| Total Credit Hours in Semester |  |  | 16 |
| Summer | CHME 399 | Practical Training | 3 |
|  | Total Credit H |  | 3 |


*Student must complete a minimum of 3 credit hours from Social Behavioral Sciences package and a minimum of 3 credit hours Behavioral Sciences package and a
from Humanities /Fine Arts package

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

College of Engineering - Corridor E
Room E103 (Men's Section)
hone: (974) 4403-4240 / 424
Email: cs@qu.edu.qa
Website: http://www.qu.edu.qa/engineering/compute

## ead

Somaya Al Maaded

## Faculty

rofessors:
, Qutaibah Malluhi, Abbes Amira, Abdelaziz Bouras, Mohse Mokhtar Guizan

## Associate Professors:

somaya Al Maaded, Mohammad Saleh, Mohammed
Samaka, Osama A. Shata, Uvais Qidwai, Amr Mohamed,
Khaled Shaban

## Assistant Professors

Mohamed Al-Meer, Adel Cherif, Tarek Elfouly, Abdelkarim Erradi, Rachid Hadjidj, Osama Halabi, Loay Ismail, Khaled han, Ryan Riley, Tamer Elsayed, Aiman Erbad, Mashae A-Sabah, Noora Fetais, Abdulla Khalid Al-Ali, Noor Ab Maadeed

ABOUT THE DEPARTMENT
The CSE Department offers two distinct undergraduate programs:
The Computer Science (CS) Program that concentrates on algorithms for processing data, the theory of computation, programming languages, software design and development on a variety of computing platforms, and scales, as well as web and mobile application development. CS graduates possess highly employable and varied skills that enable them to work effectively in different domains and provide innovative solutions to challenging problems that affect our society and everyday ives. They can understand, design, implement, use, and administer computing systems efficiently. The program nhances the students' ability to pursue multiple interests The CS program at Qatar University was first offered in 1989, as the first computer-related undergraduate educational program offered in Qatar. CS students engag in a broad range of learning and research activities that span the entire spectrum of computer science such as software engineering, database design and development,
networking, mobile computing, web systems, and man thers. The program concludes with one year senior hesign polve realistic prob and using emerging technologies. The Computer Engineering (CE) Program that concentrates on the design and development of computing devices and systems. It combines skills from Electrical Engineering, Computer Science, and Mathematics,
and applies them in areas like Networking, Data Communication, Instrumentation, Robotics and Intelligent System Automation. The CE program at Qatar University 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, mbedded computing, networking, hardware design and educational experience is culminated by a graduation project where teams are formed to design and engineer innovative hardware and software systems using the latest echnologies from robotics, distributed systems, circuit design, networking, and embedded systems to tackle rea world problems
The Computer Engineering Program is accredited by the Engineering Accreditation Commission of ABET, http ww.abet.org and the Computer Science Program is ABET, http://www.abet.org.

## bachelor of science in computer <br> ENGINEERING

Program Educational Objectives
The objective of the major is to graduate students who The objective of the major is to graduate stud
shall be able to achieve most of the following:
shall be able to achieve most of the following: industry and government that will advance the economic development of the country, the region, and beyond 2. Serve industry and government by contributing professionally to help solve interdisciplinary, open-ended, and optimization problems.
. Contribute effectively to the computing or engineering active interaction, ethical education through lifelong lation skills, while pursuing furthe 4. Pursue advanced studies if they so desire.

## Student Outcomes

(a) an ability to apply knowledge of mathematics, science
nd engineering
(b) an ability to design and conduct experiments, as we to analyze and interpret dat
an ability to design a system, component, or process 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
) the broad education necessary to understand the mpact of engineering solutions in a global, economic ,
(i) a recognition of the need for, and an ability to engage in ife-long learning
() a knowledge of contemporary issues
) an ability to use the techniques, skills, and modern
nineering tools necessary for engineering practice

## Opportunities

omputer engineers research, plan, design, evelop, modify, evaluate and integrate computer dommunication systems. Examples of potential employers are computer and telecommunication hardware manufacturers, telecommunications providers, information echnology consulting companies, government agencie and research institutions, and information ectors. Sample career titles for Computer Engineering are Computer Engineer, Telecommunications Engineer, ardware Circuit Designer, Hardware Engineer, Networks ngineer, Systems Engineer, Research Engineer, and Wireless Communication Engineer

## Admissions Requirements

Applicants must satisfy QU defined College and Program equirements including the minimum highe and
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 $5 \%$ or higher in math and science courses.
Detailed Undergraduate admission requirements are available at the following link: http://www.qu.edu.qa/ students/admission/undergraduates.php

Declaring the major

Students must satisfy QU requirements for declaring a major including the need to declare the major before students must have either successfully completed all equirements of the Foundation Program or satisfied the University's competency requirements.

## DEGREE REQUIREMENTS

Major in Computer Engineering
minimum of 128 credit hours are required to complete he major in Computer Engineering, including the following: - A minimum of

A minimum of 24 credit hours in college requirements. A minimum of 60 credit hours in major requirements. A minimum of 9 credit hours in major electives
A minimum of 2 creait hours in free electives.
Core Curriculum Requirements ( 33 CH )

## man package ( 12 CH )

ENGL 202 English Language I Post Foundation ENGL 203 English Language II Post Foundatio DAWA 111 Islamic Culture

## Social/Behavioral Sciences package (3 CH ) Any Course in Core Curriculum Program defined socia

 packageHumanities/Fine Arts package (3 $\mathbf{C H}$ ) 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 Coll

package (12 CH)
PHYS 191 General Physics for Engineering PHYS 192 Ex
Engineering
PHYS 193 General Physics for Engineering PHYS 194 Experimental General Physics for Engineering II
CHEM 101 General Chemistry
CHEM 103 Experimental General Chemistry !
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 Probability and Statistics for Engineers
GENG 300 Numerical Methods
Engineering Economics

Major Requirements ( 60 CH )

- ELEC 231 Fundamentals of Electronics
- ELEC 351 Signals and Systems
- CMPS 151 Programming Concepts
- CMPS 152 Programming Concepts Laboratory - CMPS 205 Discrete Structures for computing - CMPS 251 Object-Oriented Programming

CMPS 252 Object-Oriented Programming Laboratory

- CMPE 262 Digital Logic Design Laboratory
- CMPE 263 Computer Architecture and Organization I - CMPS 303 Data Structures
- CMPE 363 Computer Architecture and Organization II - CMPE 364 Microprocessors based Design
- CMPE 365 Microprocessors based Design Laboratory -CMPE 370 Computer Engineen
- CMPS 406 Operating Systems

CMPS 411 Software Engineering Laboratory

- CMPE 455 Data Communication and Computer Networks I
- CMPE 456 Data Communication and Computer Networks I Laboratory
- CMPE 457 Data Communication and

Computer Networks II

- CMPE 462 Computer Interfacing
-CMPE 478 Digital Signal Processing Laboratory
- CMPE 498 Design Project I
- CMPE 499 Design Project II


## Major Electives (9 CH)

Students must complete a minimum of 9 credit hours in major elective courses by taking a maximum of 3 credit hours in the Common Electives sub-package, and the remaining required credit hours from the CE Electives sub package:

## Common Electives Sub-package (0-3 CH)

Students can take up to 3 credit hours from the following list of courses:
CMPS 373 Computer Graphics
CMPS 454 Wireless Networks and Applications
CMPS 465 Parallel and Distributed Systems
CMPE 475 Artificial Intelligence

- CMPE 480 Computer Vision
-CMPE 482 Multimedia Networks
- CMPS 485 Computer Security


## CE Electives Sub-package (6-9 CH)

Students must complete a minimum of 6 to 9 CH from the following courses.
CMPS 351 Fundamentals of Database Systems - CMPE 399 Practical Training

CMPE 470 Modern Computer Organization
CMPE 471 Selected Topics in Computer Engineering CMPE 474 Artificial Neural Networks
CMPE 481 Modeling and Simulation of Digital Systems CMPE 485 Introduction to Robotics
CMPE 487 Fundamentals of Digital Image Processing
Free Electives (2 CH)
Students must complete a minimum of 2 credit hours from courses offered outside the College excluding MATH P100 course.

Study Plan: Bachelor of Science in Computer Engineering

| FIRST YEAR (34 credit hours) |  |  |  |
| :---: | :---: | :---: | :---: |
| Term | Course \# | Course Title | Credit Hours |
| Fall | ENGL 202 | English Language I Post Foundation | 3 |
|  | MATH 101 | Calculus I | 3 |
|  | CHEM 101 | General Chemistry I | 3 |
|  | CHEM 103 | Experimental General Chemistry I | 1 |
|  | CMPS 151 | Programming Concepts | 3 |
|  | CMPS 152 | Programming Concepts Laboratory | 1 |
|  | GENG 107 | Engineering Skills and Ethics | 3 |
| Total Credit Hours in Semester |  |  | 17 |
| Spring | ENGL 203 | English Language II Post Foundation | 3 |
|  | MATH 102 | Calculus II | 3 |
|  | PHYS 191 | General Physics for Engineering I | 3 |
|  | PHYS 192 | Experimental General Physics for Engineering I | 1 |
|  | CMPS 251 | Object-Oriented Programming | 3 |
|  | CMPS 252 | Object-Oriented Programming Laboratory | 1 |
|  | CMPS 205 | Discrete Structures for Computing | 3 |
|  | Total Credit Hours in Semester |  | 17 |


| Term | Course \# | Course Title | Credit Hours |
| :---: | :---: | :---: | :---: |
| Fall | CMPE 261 | Digital Logic Design | 3 |
|  | CMPE 262 | Digital Logic Design Laboratory | 1 |
|  | PHYS 193 | General Physics for Engineering II | 3 |
|  | PHYS 194 | Experimental General Physics for Engineering II | 1 |
|  | MATH 211 | Calculus III | 3 |
|  | ARAB 100 | Arabic Language I | 3 |
|  | ELEC 201 | Electric Circuits | 3 |
| Total Credit Hours in Semester |  |  | 17 |
| Spring | ELEC 351 | Signals and Systems | 3 |
|  | ELEC 231 | Fundamentals of Electronics | 3 |
|  | CMPS 303 | Data Structures | 3 |
|  | GENG 200 | Probability and Statistics for Engineers | 3 |
|  | CMPE 263 | Computer Architecture and Organization I | 3 |
|  | Total Credit Hours in Semester |  | 15 |



THIRD YEAR (34 credit hours)

| Term | Course \# | Course Title | Credit Hours |
| :---: | :---: | :---: | :---: |
| Fall | CMPE 455 | Data Communication and Computer Networks I | 3 |
|  | CMPE 456 | Data Communication and Computer Networks I Laboratory | 1 |
|  | CMPE 363 | Computer Architecture and Organization II | 3 |
|  | CMPS 405 | Operating Systems | 3 |
|  | CMPS 406 | Operating Systems Laboratory | 1 |
|  | MATH 217 | Mathematics for Engineers | 3 |
|  | CMPE 370 | Computer Engineering Practicum | 1 |
|  |  | Free Elective | 2 |


|  |  |  |  |
| :--- | :--- | :--- | :--- |
|  | Total Credit | Hours in Semester | 17 |
| Spring | CMPE 457 | Data Communication and | 3 |
|  |  |  |  |

- CMPE 457 | Data Communication and |
| :--- |
| Computer Networks II |

| CMPE 364 |
| :--- |
| CMPE 365 |

Microprocessor Based
Design Laboratory
GENG 360
Engineering Economics
CMPS 411 Software Engineering

CMPE 478 | $\begin{array}{l}\text { Digital Signal Processing } \\ \text { Laboratory }\end{array}$ |
| :--- | :--- |

Total Credit Hours in Semester

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 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, 3 Contribute effectively to so
profession by fostering effective interaction computing
practices, and communication skills, while pursuing further
education through lifelong learning.
3. 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.
An understanding of professional, ethical, legal, security and social issues and responsibilities, audiences.
the eftively win a range of
Anputing on individuals, local and global impact of (h) Ruting on individuals, organizations, and society. (h) Recognition of the need for, and an ability to engage in continuing professional development
An ability to use current techniques, skills, and tools An ability to apply mathematica
inciples, and computer science th foundations, algorithmic 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 (k) An abiity 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 titiles for computer science incluca 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 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 Pa of the International SAT I Test and score an average of $75 \%$ or higher in math and science courses.
Detailed Undergraduate admission requirements are available at the following link: http://www.qu.edu a students/admission/undergraduates.php

## 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, studerrements 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 46 credit hours in major requirements.

A minimum of 15 creait hours of major electives. A A minses.

Core Curriculum Requirements ( 33 CH ) Common package ( 15 CH )
ARAB 100 Arabic Language
ARAB 200 Arabic Language II
ENGL 202 English Language I Post Foundation ENGL 203 English Language II Post Foundation DAWA 111 Islamic Culture

Socia/Behavioral Sciences package (3 CH )
Any Course in Core Curriculum Program defined socia 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

## College Requirements ( 21 CH )

- MATH 231 Linear Algebra
- PHYS 191 General Physics for Engineering - PHYS 192 Experimental General Physics for Engineering I
- PHYS 193 General Physics for Engineering II - PHYS 194 Experimental General Physics for Engineering II

M 101 General Chemistry I

- CHEM 103 Experimental General Chemistry I
- GENG 200 Probability and Statistics for Engineers
- GENG 300 Numerical Methods


## Major Requirements ( 46 CH ) <br> - CMPS 200 Computer Ethics

- CMPS 205 Discrete Structures for Computing
- CMPS 151 Programming Concepts

CMPS 152 Programming Concepts Laboratory
CMPS 251 Object-Oriented Programming

- CMPS 252 Object-Oriented Programming Laboratory CMPS 303 Data Structures
- CMPS 311 Object Oriented Modeling
- CMPE 263 Computer Architecture and Organization I
- CMPS 323 Design and Analysis of Algorithms
- CMPS 351 Fundamentals of Database Systems CMPS 352 Fundamentals of Database Systems Laboratory
- CMPS 356 Software Development of Enterprise Applications
-CMPS 405 Operating Systems
- CMPS 406 Operating Systems Laboratory - CMPS 411 Software Engineering - CMPE 455 Data Communication and Computer

Networks I
CMPE 456 Data Communication and Computer Networks

## Laboratory

CMPS 493 Senior Project I

Students must complete a minimum of 15 credit hours in major elective courses by taking a maximum of 6 credi hours in the Common Electives sub-package, and the emaining required credit hours from the CS Electives sub package.

Common Electives Sub-package ( $0-6 \mathrm{CH}$ )
Students can take up to 6 credit hours from the following ist of courses:
CMPS 373 Computer Graphics
CMPS 453 Data Mining
CMPS 454 Wireless Networks and Applications
CMPS 465 Parallel and Distributed Systems
CMPE 475 Artificial Intelligence
CMPE 482 Multimedia Network
CMPS 485 Computer Security
CS Electives Sub-package ( $9-15 \mathrm{CH}$ )
Students must complete 9 to 15 CH from the following courses:
CMPE 261 Digital Logic Design
CMPS 312 Mobile Application Development CMPS 345 Automata and Formal Languages CMPS 399 Practical Training

- CMPS 433 Multimedia Systems
- CMPS 445 Compiler Construction

CMPS 451 Database Management Systems
CMPS 453 Data Mining
CMPS 466 Information Retrieva
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

| FIRST YEAR (34 credit hours) |  |  |  |
| :---: | :---: | :---: | :---: |
| Term | Course \# | Course Title | Credit Hours |
| Fall | ENGL 202 | English Language I Post Foundation | 3 |
|  | MATH 101 | Calculus I | 3 |
|  | CHEM 101 | General Chemistry I | 3 |
|  | CHEM 103 | Experimental General Chemistry I | 1 |
|  | CMPS 151 | Programming Concepts | 3 |
|  | CMPS 152 | Programming Concepts Laboratory | 1 |
| Total Credit Hours in Semester |  |  | 14 |
| Spring | ENGL 203 | English Language II Post Foundation | 3 |
|  | MATH 102 | Calculus II | 3 |
|  | PHYS 191 | General Physics for Engineering I | 3 |
|  | PHYS 192 | Experimental General Physics for Engineering I | 1 |
|  | CMPS 251 | Object-Oriented Programming | 3 |
|  | CMPS 252 | Object-Oriented Programming Laboratory | 1 |
|  | CMPS 205 | Discrete Structures for Computing | 3 |
|  | Total Credit Hours in Semester |  | 17 |


| SECOND YEAR (33 credit hours) |  |  |  |
| :---: | :---: | :---: | :---: |
| Term | Course \# | Course Title | Credit Hours |
| Fall | CMPS 303 | Data Structures | 3 |
|  | CMPS 311 | Object Oriented Modeling | 3 |
|  | PHYS 193 | General Physics for Engineering II | 3 |
|  | PHYS 194 | Experimental General Physics for Engineering II | 1 |
|  | MATH 231 | Linear Algebra | 3 |
|  | ARAB 100 | Arabic Language I | 3 |
| Total Credit Hours in Semester |  |  | 16 |
| Spring | CMPS 323 | Design and Analysis of Algorithms | 3 |
|  | CMPS 351 | Fundamentals of Database Systems | 3 |
|  | CMPS 352 | Fundamentals of Database Systems Laboratory | 1 |
|  | GENG 200 | Probability and Statistics for Engineers | 3 |
|  | CMPS 200 | Computer Ethics | 1 |
|  | CMPE 263 | Computer Architecture and Organization | 3 |
|  | ARAB 200 | Arabic Language II | 3 |
|  | Total Credit Hours in Semester |  | 17 |



| FOURTH YEAR (24 credit hours) |  |  |  |
| :---: | :---: | :---: | :---: |
| Term | Course \# | Course Title | Credit Hours |
| Fall | CMPS 493 | Senior Project I | 1 |
|  | CMPS 307 | Introduction to Project Management and Entrepreneurship | 2 |
|  |  | Major Elective II | 3 |
|  |  | Major Elective III | 3 |
|  |  | Core Curriculum Elective * | 3 |
| Total Credit Hours in Semester |  |  | 12 |
| Spring | CMPS 499 | Senior Project II | 3 |
|  | MAGT 101 | Principles of Management | 3 |
|  |  | Major Elective IV | 3 |
|  |  | Major Elective V | 3 |
|  | Total Credit Hours in Semester |  | 12 |

## tudent must complete: <br> hours from Social/Behaviora

 Sciences package andA minimum of 3 credit hours in any course listed in the CCP defined Qatar and Gulf History sub-package and A minimum of 3 CH in any Course in the CCP defined Humanities/Fine arts package other than courses in the Qatar and Gulf History sub-package and,
Minimum of 3 credit hours from Natural Science/ Mathematics packag

DEPARTMENT OF ELECTRICAL ENGINEERING
College of Engineering - Corridor F,
Room F126 (Men's Section)
Phone: (974) 4403-4200 / 4204
Pmail: electrical@qu.edu.qa
Website: http://www.qu.edu.qa/engineering/electrical/
Head
Lazhar Ben-Brahim
Faculty
Professors:
Mohieddine Benammar, Lazhar Ben-Brahim, Boualem Boashash, Adel Gastli, Serkan Kiranyaz

## Associate Professors:

Associate Professors:
Rashid Al-Ammari, Ridha Hamila, Farid Touati, Ahmed Massoud, Atif Iqbal, Mazen Hasna, Nizar Zorba, Nasser

## Assistant Professors:

Mohammed Al-Hitmi, Mohammed AI-Naimi, Fadi Jaber, Hasan Mehrjerdi

## ABOUT THE DEPARTMENT

The Bachelor of Science degree in electrical engineering is a four-year program offered to male and female students. hrough its solid structure, the program strikes a balance and software skills. Also, the program fosters a broad awareness of social, cultural, and ethical issues together with a good understanding of the role of engineering in the community. In addition to the core electrical engineering courses, students are allowed to choose from a large number of major elective courses that covers several \& Communications, Biomedical Engineering, Power \& Communications, Biomedical Engineering, Power 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, adequate state-of-the-art facilities, and strong ties with stakeholders. The Electrical Engineering program offered by the department is accredited by the Engineering
bACHELOR OF SCIENCE IN ELECTRICAL ENGINEERING

Program Educational Objectives
Graduates of the Electrical Engineering Program will

Apply effectively their technical, communication, and eamwork skills in modern work environment as well as graduate studies.
Adapt to ally and ethically
Adapt to emerging technologies, social development, and

## 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 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 esponsibility
(g) an ability to communicate effectively
(h) the broad education necessary to understand the mpact 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 has been stressed by the huge economic growth and social development the country is witnessing through its 2030 National Vision. These graduates who wil contribute in designing and implementing phases of this vision and beyond must be trained at institutions of higher hired by prestigious partners such as Qatar Petroleum Doredoo, RasGas, Shell, Kahramaa, QEWC, Siemens, GE, 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 elationship with the electrical engineering department

## 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 students/admission/undergraduates.php

## Declaring the major

tudents must satisfy QU requirements for declaring 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
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.

- A minimum of 2 credit hours in free electives.

Core Curriculum Requirements ( 33 CH ) Common package ( 12 CH )
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
Supplemental College / Program core requirements package ( 12 CH )
PHYS 191 General Physics for Engineering
PHYS 192 Ex

- PHYS 193 General Physics for Engineering II - PHYS 194 Experimental General Physics for Engineering II
CHEM 101 General Chemistry I
- CHEM 103 Experimental General Chemistry I

College Requirement Courses ( 27 CH )
MATH 102 Calculus II
MATH 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 Economic
ELEC 201 Electric Circuits

Major Requirements ( 57 CH ) MATH 385 Advanced Mathematics - ELEC 202 Electric Circuits II ELEC 231 Fundamentals of Electronics ELEC 261 Digital Systems Design ELEC 262 Digital Systems Design Lab ELEC 299 Electrical Engineering Semina
ELEC 312 Electric Machines
ELEC 313 Electric Machines Lab
ELEC 321 Power Systems Analysis
ELEC 333 Electronics Engineering
ELEC 334 Electronics Engineering Lab ELEC 341 Communications Engineering ELEC 342 Communications Engineering Lab ELEC 351 Signals and System
ELEC 352 Control Systems

- ELEC 367 Embedded Systems La

ELEC 371 Sensors and Instrumentation
ELEC 375 Biomedical Engineering
ELEC 399 Practical Training
ELEC 498 Senior Design Project I
ELEC 499 Senior Design Project II
Major Electives ( 12 CH )
Students must complete a minimum of 12 credit hours in the major elective courses listed below. Upon Department written approval, one major elective course may be
selected from 300 and 400 level Engineering courses offered by other Engineering majors and counted towards atisfying the major electives required number of credit hours.
ELEC 415 Power Electronics and Drives
ELEC 416 Selected Topics in Electric Machines and
ELECC 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 444 Digital Communications
ELEC 446 Soled Topics in Communication
Engineering
ELEC 453 Advanced Control Systems
ELEC 456 Digital Signal Processing
ELEC 457 Selected Topics in Control System/Signal Processing

ELEC 469 Computer Networks
ELEC 471 Selected Topics in Computer Engineering ELEC 472 Wireless Networks and Application
ELEC 481 Power Electronics and Renewable Energy

- ELEC 482 Selected Topics in Power Electronics
- ELEC 483 Electric Drives
- ELEC 485 Industrial Control
- ELEC 486 Advanced Biomedical Systems Engineering

ELEC 487 Selected Topics in Biomedical Engineering
ELEC 488 Medical Imaging Systems
ELEC 495 Independent Study
Free Electives (2 CH)
tudents must complete a minimum of 2 credit hours from courses outside the College offering, excluding MATH
P100 course.

Study Plan:
Bachelor of Science in Electrical Engineering

| Term | Course \# | Course Title | Credit Hours |
| :---: | :---: | :---: | :---: |
| Fall | ENGL 202 | English Language I Post Foundation | 3 |
|  | MATH 101 | Calculus I | 3 |
|  | GENG 106 | Computer Programming | 3 |
|  | GENG 107 | Engineering Skills and Ethics | 3 |
|  | CHEM 101 | General Chemistry I | 3 |
|  | CHEM 103 | Experimental General Chemistry I | 1 |
| Total Credit Hours in Semester |  |  | 16 |
| Spring | MATH 102 | Calculus II | 3 |
|  | PHYS 191 | General Physics for Engineering I | 3 |
|  | PHYS 192 | Experimental General Physics for Engineering I | 1 |
|  | ENGL 203 | English Language II Post Foundation | 3 |
|  | ARAB 100 | Arabic Language I | 3 |
|  |  | Free Elective | 2 |
|  | Total Credit Hours in Semester |  | 15 |


| Term | Course \# | Course Title | Credit Hours |
| :---: | :---: | :---: | :---: |
| Fall | ELEC 351 | Signals and Systems | 3 |
|  | ELEC 312 | Electric Machines | 3 |
|  | ELEC 313 | Electric Machines Laboratory | 1 |
|  | ELEC 333 | Electronics Engineering | 3 |
|  | ELEC 334 | Electronics Engineering Laboratory | 1 |
|  | ELEC 371 | Sensors and Instrumentation | 3 |
|  | MATH 385 | Advanced Mathematics | 3 |
| Total Credit Hours in Semester |  |  | 17 |
| Spring | ELEC 311 | Electromagnetics | 3 |
|  | ELEC 352 | Control Systems | 3 |
|  | ELEC 341 | Communications Engineering | 3 |
|  | ELEC 342 | Communications Engineering Laboratory | 1 |
|  | ELEC 321 | Power Systems Analysis | 3 |
|  | ELEC 375 | Biomedical Engineering | 3 |
|  | ELEC 299 | Electrical Engineering Seminar | 0 |
| Total Credit Hours in Semester |  |  | 16 |
| Summer | ELEC 399 | Practical Training | 3 |
|  | Total Credit Hours in Semester |  | 3 |


| SECOND YEAR (34 credit hours) |  |  |  |
| :---: | :---: | :---: | :---: |
| Term | Course \# | Course Title | Credit Hours |
| Fall | MATH 211 | Calculus III | 3 |
|  | PHYS 193 | General Physics for Engineering II | 3 |
|  | PHYS 194 | Experimental General Physics for Engineering II | 1 |
|  | ELEC 201 | Electric Circuits | 3 |
|  | ELEC 261 | Digital Systems Design | 3 |
|  | ELEC 262 | Digital Systems Design Lab | 1 |
|  | GENG 200 | Probability and Statistics for Engineers | 3 |
| Total Credit Hours in Semester |  |  | 17 |
| Spring | MATH 217 | Mathematics for Engineers | 3 |
|  | GENG 300 | Numerical Methods | 3 |
|  | ELEC 202 | Electric Circuits II | 3 |
|  | ELEC 203 | Electric Circuits II Laboratory | 1 |
|  | ELEC 231 | Fundamentals of Electronics | 3 |
|  | ELEC 366 | Embedded Systems | 3 |
|  | ELEC 367 | Embedded Systems Laboratory | 1 |
| Total Credit Hours in Semester |  |  | 17 |


*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)
Shoction) (974) 4403-4300
Email: mecheng@qu.edu.qa
Website: http://www.qu.edu.qa/engineering/mechanical index.php
Head
El-Sadig Mahdi
Faculty
Professors:
Abdul Magid Salem Hamouda, Shaligram Pokharel, ElSadig Mahdi, Mohamed Haouari, Tarik Y. ElMekkawy, Faris Tarlochan
Associate Professors:
Mohammed Al-Salem, Mohamed Al-Khawaja, Saud Mohammed Al-Salem, Mohamed Al-Khawaja, Saud
Ghani, Dinesh Seth, Khalifa Al-Khalifa, Samer Fikry Ghani, Dinesh Seth, Khalifa Al-Khalifa, Samer Fikry,
Sadok Sassi, Ahmad Khalaf Sleiti, John-John Cabibihan, Farayi Musharavati, Pilsung Choe , Mohammad Roshun Paurobally
Assistant Professors:
Mohamed Al-Qaradawi, Fatih Mutlu, Adel El Omri, Andrei Sleptchenko, MD. Anwarul Hassan

## 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. workshop and computing facilities in various disciplines, and is comprised 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 realworld 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 othe 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 Graduates from the program are expect 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 owards the society.. Advance technically and professionally through continued earning 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 o meet desired needs within realistic constraints such as and safety, manufacturability, and sustainability (d) an ability to function on multidisciplinary team (e) an ability to identify, formulate, and solve engineering problems
(f) an understanding of professional and ethical esponsibility
g) an ability to communicate effectively
) mpact of engineering solutions in a global, economic, (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 (k) an abiity to use the techniques, skills, and modern
engineering tools necessary for engineering practice.

Opportunities
Industrial Engineers make systems work better, safer, costeffectively and more efficient. With its diversity, industrial engineering is used virtually in all sectors, including manufacturing, distribution, government, energy, health
care, services and finance. A distinguishing feature of the ISE discipline is the integration of people, machines,
ther
process flow, materials and information. ISE graduates aim to optimize performance of such systems using availab esources in the most efficient way without degrading 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 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 ,
available at the following link: http://www.queds are students/admission/undergraduates.php

## Declaring the major

Students must satisfy QU requirements for declaring major including the need to declare the major before mpleting 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 30 credit hours of college requirements.
- A minimum of 54 credit hours of major requirements.
- A minimum of 9 credit hours of major electives.
- A minimum of 2 credit hours in free electives.


## Core Curriculum Requirements ( 33 CH )

Common Package ( 12 CH )

- ARAB 100 Arabic Language I ENGL 203 English Language II Post Foundation DAWA 111 Islamic Culture 11 Post Foundation

[^0]Humanities/Fine Arts Package (3 CH
ludents must complete a minimum Credit Hours from courses

Natural Science/Mathe
MATH 101 Calculus I
Supplemental College / Program Core Requirements Package ( 12 CH )
PHYS 191 General Physics for Engineering
PHYS 192 Exprimental General Physics for
PHYS 193 General Physics for Engineoring PHYS 194 Experimental General Physics for Engineering II
CHEM 101 General Chemistry
CHEM 103 Experimental General Chemistry I
College Requirements ( 30 CH )
MATH 102 Calculus II
MATH 217 Mathematics for Engineers
GENG 106 Computer Programming
GENG 107 Engineering Skills and Ethics
GENG 111 Engineering Graphics
MATH 231 Linear Algebra
GENG 200 Probability and Statistics for Engineer
GENG 300 Numerical Methods

## 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 260 Thermodynamics
IENG 320 Facility Planning and Layout
IENG 330 Operations Research 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 481 Project Engineering IENG 498 Industrial Systems Design

## Major Electives (9 CH)

Students must complete a minimum of 9 credit hours as follows:

Option 1: Students can take 9 CH from the courses listed below:
ENG 331 Advanced Operations Researc
IENG 411 Maintenance Planning \& Control

- IENG 421 Decision Analysis
- IENG 423 Design of Experiments
-IENG 425 Reliability Engineering
- IENG 441 Concurrent Engineering

IENG 451 Expert Systems
IENG 478 Innovation \& Entrepreneurship
IENG 479 Special Topics
INNG 484 Supply Chain Management
IENG 486 Service Operation M \& Risk Management
IENG 486 Service Operation Management
tudy Plan:
Bachelor of Science in Industrial and Systems Engineering

| FIRST YEAR (32 credit hours) |  |  |  |
| :---: | :---: | :---: | :---: |
| Term | Course \# | Course Title | Credit Hours |
| Fall | ENGL 202 | English Language I Post Foundation | 3 |
|  | CHEM 101 | General Chemistry 1 | 3 |
|  | CHEM 103 | Experimental General Chemistry I | 1 |
|  | GENG 106 | Computer Programming | 3 |
|  | GENG 107 | Engineering Skills and Ethics | 3 |
|  | MATH 101 | Calculus I | 3 |
| Total Credit Hours in Semester |  |  | 16 |
| Spring | GENG 111 | Engineering Graphics | 3 |
|  | MATH 102 | Calculus II | 3 |
|  | PHYS 191 | General Physics for Engineering I | 3 |
|  | PHYS 192 | Experimental General Physics for Engineering I | 1 |
|  | ENGL 203 | English Language II Post Foundation | 3 |
|  |  | Core Curriculum Elective * | 3 |
|  | Total Credit | in Semester | 16 |

Option 2: Students can take 6 CH from the courses listed above in option 1 and 3 CH from the following courses ECON 452 Industrial Economics
ECON 472 Managerial Economics
ACCT 331 Cost and Management Accounting
ACCT 421 Accounting Information Systems
MAGT 405 Strategic Management

## ree Electives (2 $\mathbf{C H}$ )

Students must complete a minimum of 2 credit hours from ourses outside the College offering, excluding MATH P100 course.


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.

\section*{BACHELOR OF SCIENCE IN MECHANICA

## ENGINERING

## ENGINERING

## Program Educational Objectives

Graduates of the major are expected to achieve most of
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. towards society. owards society. 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 or meet desired needs within realistic constraints such as 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 esponsibility
mpact of enginucation necessary to understand the nvironmental (i) a recognition of the need for, and an ability to engage in life-long learning
(j) a knowledge of contemporary issue (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 a
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 equirements including the minimum high school percentag quirement.
Detailed Undergraduate admission requirements are available at the following link: http://www.qu.edu.qa/ students/admission/undergraduates.php

## Declaring the major

tudents must satisfy QU requirements for declaring major including the need to declare the major befor 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 33 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 minu of credit hours of major electives

## Core Curriculum Requirements (33 CH)

Common Package ( 12 CH )
ARAB 100 Arabic Language
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

## Supplemental College / Program Core Requirement

 Package (12 CH)-PHYS 191 General Physics for Engineering
PHYS 192 Experimental General Physics for Engineering PHYS 193 General Physics for Engineering II
PHYS 194 Experimental General Physics for Engineering II HEM 103 Gxperimental Genera

## 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 Ethi GENG 111 Engineering Graphics
GENG 200 Probability and Statistics for Engineers
GENG 360 Engineering Economics
ELEC 201 Electric Circuits

## Major Requirements ( 57 CH )

MECH 221 Engineering Mechanics I, Statics MECH 222 Engineering Mechanics II, Dynamics GANG 231 Material Science MATH 231 Linear Algebra
MECH 223 Solid Mechanics MECH 230 Manufacturing MECH 241 Thermofluids
MECH 321 Mechanical Mechanisms MECH 322 Mechanical Vibrations MECH 323 Mechanical Design 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


## Major Electives (9 CH)

Students must complete a minimum of 9 credit hours in ourses selected from the following list
MECH 331 Machining and Forming Processes MECH 425 Finite Element Method MECH 426 Computer Aided Design MECH 427 Mechanics of Composite Materials MECH 432 Welding and C
MECH 432 Welding and Casting Technologies MECH 435 Corrosion Engineering
MECH 442 Refrigeration and Air conditioning MECH 443 Heat Transfer Systems MECH 445 Fluid Systems MECH 446 Turbo Machiner MECH 447 Heat Engines
MECH 463 Mechatronics System Design MECH 471 Selected Topics I MECH 472 Selected Topics MECH 483 Operations Management MECH 485 Engineering Management MECH 486 Quality Analysis and Control MECH 499 Independent Study

## ree Electives (2 CH)

tudents must complete a minimum of 2 credit hours from courses outside the College offering, excluding MATH P100 course.

Study Plan: Bachelor of Science in Mechanica Engineering

| FIRST YEAR (32 credit hours) |  |  |  |
| :---: | :---: | :---: | :---: |
| Term | Course \# | Course Title | Credit Hours |
| Fall | ENGL 202 | English Language I Post Foundation | 3 |
|  | MATH 101 | Calculus I | 3 |
|  | GENG 107 | Engineering Skills and Ethics | 3 |
|  | GENG 106 | Computer Programming | 3 |
|  | CHEM 101 | General Chemistry I | 3 |
|  | CHEM 103 | Experimental General Chemistry I | 1 |
| Total Credit Hours in Semester |  |  | 16 |
| Spring | GENG 111 | Engineering Graphics | 3 |
|  | MATH 102 | Calculus II | 3 |
|  | PHYS 191 | General Physics for Engineering I | 3 |
|  | PHYS 192 | Experimental General Physics for Engineering I | 1 |
|  | ENGL 203 | English Language II Post Foundation | 3 |
|  | ARAB 100 | Arabic Language I | 3 |
| Total Credit Hours in Semester |  |  | 16 |


| SECOND YEAR (32 credit hours) |  |  |  |
| :---: | :---: | :---: | :---: |
| Term | Course \# | Course Title | Credit Hours |
| Fall | MATH 211 | Calculus III | 3 |
|  | PHYS 193 | General Physics for Engineering II | 3 |
|  | PHYS 194 | Experimental General Physics for Engineering II | 1 |
|  | MECH 221 | Engineering Mechanics I: Statics | 3 |
|  | GENG 200 | Probability and Statistics for Engineers | 3 |
|  | MECH 241 | Thermofluids | 3 |
| Total Credit Hours in Semester |  |  | 16 |
| Spring | MATH 217 | Mathematics for Engineers | 3 |
|  | MECH 222 | Engineering Mechanics II: Dynamics | 3 |
|  | MECH 213 | Engineering Measurements | 1 |
|  | MECH 223 | Solid Mechanics | 3 |
|  | MATH 231 | Linear Algebra | 3 |
|  | GENG 231 | Material Science | 3 |
|  |  |  |  |
|  | Crea | in Semester | 16 |


| THIRD YEAR (37 credit hours) |  |  |  |
| :---: | :---: | :---: | :---: |
| Term | Course \# | Course Title | Credit Hours |
| Fall | MECH 321 | Mechanical Mechanisms | 3 |
|  | МЕСН 322 | Mechanical Vibrations | 3 |
|  | MECH 342 | Thermodynamics | 3 |
|  | MECH 343 | Fluid Mechanics | 3 |
|  | MECH 230 | Manufacturing Processes | 3 |
|  | ELEC 201 | Electric Circuits | 3 |
| Total Credit Hours in Semester |  |  | 18 |
| Spring | GENG 300 | Numerical Methods | 3 |
|  | GENG 360 | Engineering Economics | 3 |
|  | MECH 323 | Mechanical Design I | 3 |
|  | MECH 344 | Heat Transfer | 3 |
|  | MECH 361 | Control Systems | 3 |
|  | MECH 441 | Energy Systems | 1 |
| Total Credit Hours in Semester |  |  | 16 |
| Summer | MECH 399 | Practical Training | 3 |
| Total Credit Hours in Semester |  |  | 3 |

FOURTH YEAR (30 credit hours)

| Term | Course \# | Course Title | Credit Hours |
| :---: | :---: | :---: | :---: |
| Fall | MECH 421 | Mechanical Design II | 3 |
|  | MECH 448 | Design of Energy Systems | 3 |
|  | MECH480 | Senior Project I | 1 |
|  |  | Major Elective I | 3 |
|  | DAWA 111 | Islamic Culture | 3 |
|  |  | Core Curriculum Elective * | 3 |
| Total Credit Hours in Semester |  |  | 16 |
| Spring | MECH 490 | Senior Project II | 3 |
|  |  | Core Curriculum Elective * | 3 |
|  |  | Major Elective II | 3 |
|  |  | Major Elective III | 3 |
|  |  | Free Elective | 2 |
|  | Total Credit Hours in Semester |  | 14 |

*Student must complete a minimum of 3 credit hours from Social/Behavioral Sciences package and a minimum of 3 credit hours from Humanities/Fine Arts package.



## college of law

Business \& Economics Building (Women's and Men's ections
hone (974) 4403-5252 / 4403-5254
Email: law@qu.edu.qa
Website: http://www.qu.edu.qa/law
Dean
Oohammed Abdel Aziz Al Khulaifi
Associate Dean for Academic Affairs Yaser Khalaileh

Associate Dean of Outreach and Engagement Dr. Yassin El Shazly

Associate Dean for Research and Graduate Studies Fawzi Belknani
Assistant Dean for Student Affairs
Ola Shadid

## Faculty

Professors:
Yaser Khalaileh, Gaber Mahjoub, Fawzi Bel Kanani, Sonia Mallak, Ghanam Mohammed, Ibrahim Al- Anani,
Mohammed Mattar, Paula Young.

Associate Professors:
Associate Professors: Ahmed, Francis Botchway, , Francis Botchway, Abdel Hafez El Shemy, Sami Rawashdeh, Abdel Naser
Hayajneh, Mohammed Nouh Moukhtar, Kamal Alaween, Abdelrahman Jomaa, Husam Botosh, Salah Zain Eddin

## Assistant Professors:

Mohammed Al-Khulaifi, Hassan Okour, Mohamed Ammar, Mohamed Salem Abou El Farag, Imad Kattan, Hassan Kkour, Jon Truby, Basher Saad Zaghloul, Tarek Rashed Adamantia Rachovista, Yassin AI Shazly, Nazzal Kiswan, Talal AI Emadi, Mohammed Al Ramahi, Rawan Al-louzi, Ahmed Hanasein, , Aaron Harmon, Andrew Dahdal, Conrad Sturm, Islam Shiha, Melissa Deehring, Mohamme ares, Reem Al- Ansari, Rafael Brown

Lecturers:
Muna Marzouq
Teaching Assistants
Aisha AI Ammari, Khaled AL Shammari, Noora Sahlawi, Zohra Mahmoud, Saber Gdiri, Reem Helali, Abdelsalam AI Achaal, Abdullah AI Mulla, Mohsin AI Marri, Amina Zainal,

Fatima AI- Mosleh, Khaloud AI- Qahtani, Mariam Abu Shareeda, Mohammed Alkaabi, saqeer Al- Sulaiti, Sara Al-
Mohannadi, Zahiya Abu-Khadiia.

## ABOUT THE COLLEGE

## Vision Statement

The College of Law aspires to be the premier college of law in the region in recognition of the quality of its academic program, the achievements of its faculty and graduates, and its service to the local and the internationa community.

## Mission Statement

he mission of Qatar University College of Law is to be committed to providing its students with the finest egar education that shall equip them to unparalleled professional success. The mission of Qatar University College of Law shall extend as well to the production of he highest quality of legal scholarship and the provisi distinctive service to lol local and the internation community.

## DEGREE OFFERINGS

The College of Law offers the following undergraduate degree program:
Bachelor of Law (LL.B)

## ABOUT THE LAW PROGRAM

The law program at Qatar University has an outstanding tadition of uniquely blending knowledge and legal expertise with the acquirement and practice of applicable eld skilis. In addition to the courses required for students to build their legal capabilities, the program provides many other elective modern and international legal courses, cluding intellectual property, foreign investments, international trade law and international criminal law

## BACHELOR OF LAW (LL.B)

Objectives
The major in Law intends to
Enable students to acquire basic legal facts, concepts, principles and theories.
Uphold students' conception of rights at both national and international levels
Prepare slucenis to understand, interpret, analyze and Enable students to acquire drafting and pleading skills. Deepen students commitment to professional legal ethics and values

- Develop students' ability to practice legal critical thinking and solve problems.


## Law Faculty

Courses offered by the College of Law are instructed by an esteemed group of faculty members who have received their degrees from prominent universities in the Arab Countries in addition to Foreign Countries like U.S.A, UK
and France. These professionals have undertaken a vast and France. These professionals have undertaken a vas
amount of personal research, preparing and publishing various of personal research, preparing and publishing ournals It is a longstanding tradition of the College to journals. It is a longstanding tradition of the College to the superiority of our students.

The College of Law also benefits from the legal experience of many specialists when it comes to practical matters, particularly in teaching practical requisites, such as law of criminal procedures, civil and commercial contracts, in addition to oil, gas and intellectual property contracts. Presently, the College of Law is expanding its resources and staff to support the requirements of increasing number of students.

## Learning Outcomes

## LO 1: Knowledge

Graduates of the Bachelor of Law will demonstrate an understanding of a coherent body of knowledge that includes:

1. The fundamental areas of legal knowledge the Qatari legal system,and underlying principles and concepts, including international and comparative contexts;
2. The broader contexts within which legal issues arise; and
3. Understanding of the principles and values of ethical decision-making and the professional principles and values goals justice and service to the wider community.

## LO 2: Critical Thinking Skills

Graduates of the Bachelor of Laws will be able to: 1) Identify and articulate legal issues;
2) Apply legal reasoning and research to generate appropriate responses to legal issues;
3) Engage in critical analysis and make a reasoned choice mongst alternatives; and
4) Approach legal issues creatively and generate
appropriate responses.

## LO 3: Research Skills

Graduates of the Bachelor of Laws will demonstrate the intellectual and practical skills needed to identify, research
evaluate and synthesize relevant factual, legal and policy ssues.

LO 4: Ethics and Professional Responsibility
Graduates of the Bachelor of Laws will demonstrate the following:

1) An ability to recognize and reflect upon, and a developing ability to respond to, ethical issues likely to arise in professional contexts.
2) A fundamental ability to exercise professional judgment.

## LO 5: Communication

Graduates of the Bachelor of Laws will be able to communicate in ways that are effective, appropriate and persuasive for legal and non-legal audiences.

## LO 6: Self-Reliance and Collaboration

Graduates of the Bachelor of Laws will be able to 1) Learn and work independently.
2) Reflect on and assess their own capabilities and erformance, and make use of feedback as appropriate, to 3) Collaborate in teams effectively and ethically.

## 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 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 that students may continue expanding their focus and expertise, and join the best international universities to 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 students/admission/undergraduates.php

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

## DEGREE REQUIREMENTS

## Major in Law

A minimum of 123 credit hours are required to complete
the major in Law, including the following

- A minimum of 33 credit hours in core curriculum
requirements.
- A minimum of 66 credit hours of major requirements
- A minimum of 24 credit hours of major Electives.


## Core Curriculum Program ( 33 CH )

Common package ( 15 CH )
ARAB 200 Arabic Language

- ENGL 110 English I

ENGL 111 English II

- DAWA 111 Islamic Culture

Social/Behavioral Sciences package (3 $\mathbf{C H}$ )
Any Course in the CCP defined social package
Humanities/Fine Arts package (3 $\mathbf{C H}$ )
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) <br> Any Course in the CCP defined Natural Science/

Mathematics package.

## Supplemental College/Program core requirement

## package ( 9 CH )

相
UNIV 100 First Year Seminar
Major Requirements ( 66 CH )
Students must
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 I

- 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 La
LAWC 409 Externship
LAWC 413 Private International Law
LAWC 422 Law of Criminal Procedure 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 er instruction is either Arabic
orglish, to be selected from the following:
lective Law Courses Taught in Arabic:
LAWC 112 Science of Crimes and Penalties
LAWC 202 Public Finance and Taxation
ISLA 201 Principles of Islamic Jurisprudence LAWC 330 Judgements and Criminal Appealing Means LAWC 350 Maritime Law
LAWC 352 Admini-Corruption Judiciar
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 - FIOH 403 Fiqh of Inheritance and Bequest LAWC 499 Legal Ethic
LAWC 407 Special Topics


## Eective Law Courses Taught in English

LAWC 302 Advocacy Skills
LAWC 433 Oil and Gas Law
LAWC 102 Human Rights
LAWC 113 International Humanitarian Law LAWC 253 Anglo-American Legal System LAWC 333 Law of Electronic Commerce
LAWC 345 International Trade Law

- LAWC 443 International Criminal Law
- LAWC 449 Environment Laws and Regulations
- LAWC 451 Alternative Dispute Resolutions

LAWC 459 Drafting of Business Contract

- LAWC 460 Moot Court I

LAWC 180 menational Investment Law
LAWC 408 Special Topics I

STUDY PLAN FOR THE BACHELOR OF LAW

| First Year |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| No. | Term | Course \# | Course Title | Credit Hours | Prerequisite |
| 1 | Fall | LAWC 101 | Introduction to Law | 3 | - |
| 2 | Fall | ARAB 100 | Arabic Language I | 3 | - |
| 3 | Fall | ENGL 110 | English Language I | 3 | - |
| 4 | Fall | UNIV 100 | First Year Seminar | 3 | - |
| 5 | Fall | LAWC 250 | Family Law | 3 | - |
| Total ( 15 Credit Hours) |  |  |  |  |  |
| 1 | Spring | LAWC 213 | Sources of Obligations | 3 | LAWC 101 |
| 2 | Spring | LAWC 217 | Commercial Law | 3 | LAWC 101 |
| 3 | Spring | LAWC 222 | Constitutional Law | 3 | - |
| 4 | Spring | ENGL 111 | English Language II | 3 | ENGL 110 |
| 5 | Spring | - | Core Curriculum Course | 3 | - |
| Total ( 15 Credit Hours) |  |  |  |  |  |
| Second Year |  |  |  |  |  |
| No. | Term | Course \# | Course Title | Credit Hours | Prerequisite |
| 1 | Fall | LAWC 214 | Effects of Obligations | 3 | LAWC 213 |
| 2 | Fall | LAWC 348 | Corporate Law | 3 | LAWC 217 |
| 3 | Fall | LAWC 323 | Law of Criminal Procedure: (General Part) | 3 | LAWC 101 |
| 4 | Fall | ENGL 250 | English Communication I | 3 | ENGL 111 |
| 5 | Fall | ARAB 200 | Arabic Language II | 3 | -ARAB 100 |
| Total ( 15 Credit Hours) |  |  |  |  |  |
| 1 | Spring | LAWC 314 | Law of Civil Contracts I | 3 | LAWC 214 |
| 2 | Spring |  | Core Curriculum Course | 3 | - |
| 3 | Spring | LAWC 324 | Law of Criminal Procedure: (Special Part) | 3 | LAWC 323 |
| 4 | Spring | ENGL 251 | English for Communication II | 3 | ENGL 250 |
| 5 | Spring | - | Elective Course in Major | 3 | - |
| Total ( 15 Credit Hours) |  |  |  |  |  |
| Third Year |  |  |  |  |  |
| No. | Term | Course \# | Course Title | Credit Hours | Prerequisite |
| 1 | Fall | LAWC 316 | Law of Procedures in Civil and Commercial Matters I | 3 | LAWC 214 |
| 2 | Fall | LAWC 321 | Administrative Law | 3 | LAWC 101 |
| 3 | Fall | LAWC 111 | Legal Research \& Writing I | 3 | ENGL 250 |
| 4 | Fall | LAWC 329 | Commercial Papers \& Banking Transaction | 3 | LAWC 214 and LAWC 217 |


| 5 | Fall | - | Elective Course in Major | 3 | - |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Total (15 Credit Hours) |  |  |  |  |  |
| 1 | Spring | LAWC 339 | Public International Law | 3 | Passing of $60 \mathrm{C} . \mathrm{H}$ |
| 2 | Spring |  | Core Curriculum Course | 3 | - |
| 3 | Spring | LAWC 223 | Legal Research \& Writing II | 3 | LAWC 111 |
| 4 | Spring | - | Elective Course in Major | 3 | - |
| 5 | Spring | - | Elective Course in Major | 3 | - |
| Total (15 Credit Hours) |  |  |  |  |  |
| Fourth Year |  |  |  |  |  |
| No. | Term | Course \# | Course Title | Cr Hrs | Prerequisite |
| 1 | Fall | LAWC 450 | Law of Procedures in Civil \& Commercial Matters II | 3 | LAWC 316 |
| 2 | Fall | LAWC 413 | Private International Law | 3 | LAWC 213 |
| 3 | Fall | LAWC 315 | Labor Law | 3 | LAWC 213 |
| 4 | Fall | - | Core Curriculum Course | 3 | - |
| 5 | Fall | - | Elective Course in Major | 3 | - |
| 6 | Fall |  | Elective Course in Major | 3 |  |
| Total (18 Credit Hours) |  |  |  |  |  |
| 1 | Spring | LAWC 411 | Real Rights | 3 | LAWC 214 |
| 2 | Spring | LAWC 409 | Externship | 3 | LAWC 111 |
| 3 | Spring | - | Elective Course in Major | 3 | - |
| 4 | Spring | - | Elective Course in Major | 3 | - |
| 5 | Spring | LAWC 422 | Law of Criminal Procedures | 3 | LAWC 324 |
| Total ( 15 Credit Hours) |  |  |  |  |  |
| Grand Total (123 Credit Hours) |  |  |  |  |  |



## 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
Associate Dean for Research and Graduate Studies Feras Alali

Assistant Dean for Student Affairs Alla El-Awaisi
Director, Doctor of Pharmacy Program Kerry Wilbur

## Pharmaceutical Sciences Chair

Fatima Mraiche
Clinical Pharmacy and Practice Section Chair Maguy EI Hajj

## Faculty

Professors:
Sherief Khalifa, Mohamed Ibrahim, Feras Alali

## Associate Professors:

Husam Younes, Ashraf Khalil, Nadir Kheir

## Clinical Associate Professors

Kerry Wilbur

## Assistant Professors:

Ahmed Awaisu, Daoud AI Badriyeh, Emily Black, Maguy EI Haij, Bridget Javed, Fatima Mraiche, Shankar Munusamy Kyle Wilby, Ahmed Nader, Hazem Elewa, Shane Pawluk, Mohammad Diab
Clinical lecturers
Alla El Awaisi, Shaima Gharaibeh
Teaching Assistants:
Reem Al Mannai, Mohammad Najjar, Hebatallah Deghady, Maral Yazdandoost

## 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 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.
. To integrate knowledge with practical experience to nhance career path and development
education of
2. To advance pharmaceutical and health outcomes by the conduct of internally and externally funded independent and collaborative research
3. To provide an intellectual and academic atmosphere that is conducive to recruitment and development of qualified faculty.
degree offerings
The College of Pharmacy offers the following undergraduate degree program
Bachelor of Science in Pharmacy-BSc (Pharm)

## bACHELOR OF SCIENCE IN PHARMACY

## Objectives

The specific objectives of the Pharmacy maior are:
The specific objectives of the Pharmacy major are: develop our student's general and professional abilities in a systematic, ability-based BSc and PharmD curricula that incorporates the following areas: biomedical sciences pharmaceutical sciences; behavioral, social, and dministrative pharmacy sciences; pharmacy practice; and clinical pharmacy.
To integrate knowledge with practical experience to 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, pee eviewed journals.
and academic atmosphere tha都 faculty.

Learning Outcomes
Graduates of the major in Pharmacy will foster studen Cowe prow skill and professional judgent to pharmaceutical care and to facilitate management of patient's medication and overall health needs.

- Communicator: Pharmacy graduates communicate with diverse audiences, using a variety of strategies that take into account the situation, intended outcomes of the communication and the target audience.
Collaborator: Pharmacy graduates work collaboratively fulfill their professional obligations to the community and society at large.
- Manager: Pharmacy graduates use management skills in their daily practice to optimize the care of patients, to ensure the safe and effective distribution of medications, and to make efficient use of health resources.
- Advocate: Pharmacy graduates use their expertise and influence to advance the health and well-being of individu pharmacist's professional roles.
- Scholar: Pharmacy graduates have and can apply the core knowledge and skills required to be a medication therapy expert, and are able to master, generate, interpret and disseminate pharmaceutical and pharmacy practice knowledge.
- Professional: Pharmacy graduates honor their roles as self-regulated professionals through both individual to the profession, the community and society at large Adopted for the purposes of CCAPP Accreditation from the Association of Faculties of Pharmacy of Canada Educational Outcomes for a Baccalaureate Pharmacy Graduate in Canada. June 3, 2010.


## Opportunities

Career opportunities for graduates of the major in (Pharm) curriculum is designed to prepare first-degree to-practice graduates for careers primarily in community and hospital settings. Graduates are also expected to be prepared for careers in the pharmaceutical industry, health sciences research, government, pharmacy organizations, and academia. The accredited curricular design represents a hybrid of programs offered in North America, the U.K. and the Middle East
Graduates of the major in Pharmacy are eligible to apply for the Doctor of Pharmacy (PharmD) program which commenced in 2011. The PharmD curriculum is designed to prepare advanced practitioners, researchers and academicians for virtually any health care setting. BSc (Pharm) graduates who wish a research and academia focused career will also eligible to apply for the MSc
(Pharm) program which also commenced in 2011. The

MSC (Pharm) degree is intended to provide an opportunity for students to advance their knowledge in specific areas of intere Within the pharmaceutical sciences, and clinical Pharmacy 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 Program Applicants must satisfy QU defined College and Program requirements inc Detailed Undergraduate admission requirements are available at the following link: http://www.qu.edu.qa/students/admission/ undergraduates.php

## Declaring the major

Students must satisfy QU requirements for declaring a majo ndergraduate 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 33 credit hours total) prior to application. Admission is competitive and a limited number of seats are available. Qualified applicants may be invited for an interview with the Admission Committee and only selected applicants will be academic criteria. Details can be found on the college website at http://www.qu.edu. qa/pharmacy/academics/undergraduate/admission.php

## Additional Requirements

Completion of the major in Pharmacy (BSc (Pharm)) requires successful completion of 173 credit-hours of courses as outline in the study plan. This includes six 4 credit-hour experiential

## DEGREE REQUIREMENTS

Major in Pharmacy
A minimum of 173 credit hours are required to complete the major in pharmacy, including the following:
A minimum of 33 credit hours in Core Curriculum
Requirements.
A minimum of 115 credit hours in Major Requirements.

- A minimum of 17 credit hours in College Core

Requirements.
A minimum of 8 credit hours in Major Electives.

## Core Curriculum Program (33 CH)

Common package ( 12 CH )

- ARAB 100 Arabic language I

ENGL 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 $\mathbf{C H}$ )

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 $\mathbf{C H}$ )
Students must complete a minimum of 3 Credit Hours from the following courses:

- MATH 101 Calculus


## Supplemental College/Program Core Requirements

## package ( 12 CH )

CHEM 351 Basic Biochemistry
CHEM 352 Experimental Biochemistry
CHEM 101 General Chemistry I

- CHEM 103 Experimental General Chemistry


## 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.
upporting Courses package ( 6 CH )
tudents must complete a minimum of 6 credit hours from he following courses

I51 Inroduction to Applied Statistic
BIOL 101 General Biology
General Science package ( 11 CH )
tudents must complete a minimum of 11 credit hours
BIOM 211 Humg courses:
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 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 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 317 Pharmacokinetics I
PHAR 320 Pharmacology I

- PHAR 321 Pharmacology II

PHAR 330 Structured Professional Practice Experience

- 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 362 Patient Assessment Laboratory
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 405 Pharmacy Research, Evaluation and Presentation Skills III (PREP skills III)
PHAR 406 Pharmacy Research, Evaluation and Presentation
PHAR 410 Pharmaceutics IV
PHAR 415 Toxicology

- PHAR 420 Pharmacology III

PHAR 421 Pharmacology IV
PHAR 425 Pharmacognosy, Alternative/Complementary
reatments
PHAR 430 Structured Professional Practice Experience II
PHAR 440 Professional Skills V
PHAR 450 Healthcare delivery systems
PHAR 470 Pathophysiology III
PHAR 471 Pathophysiology IV
PHAR 480 Pharmacotherapy III
PHAR 481 Pharmacotherapy IV
PHAR 485 Pediatrics/Geriatrics
PHAR 490 Integrated Case-Based Learning III
PHAR 505 Pharmacy Research, Evaluation and Presentation
Skills V (PREP skill V)

- PHAR 506 Pharmacy Research, Evaluation and Presentation - PHAR 506 Pharmacy Research, Evaluation and Presentation Skills VI (PREP skills VI)
PHAR 525 Pharmacoepidemiology \& pharmacoeconomics

PHAR 531 Structured Professional Practice Experience IV - PHAR 532 Structured Professional Practice Experience V PHAR 590 Integrated Case-Based Learning
PHAR 533 Structured Professional Practice Experience VI

Major Electives ( $8 \mathbf{C H}$ )
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

| FIRST YEAR ( 35 credit hours) |  |  |  |
| :---: | :---: | :---: | :---: |
| Term | Course \# | Course Title | Credit Hours |
| Fall | PHAR200 | Medicinal Chemistry I | 2 |
|  | В1Ом215 | Human Physiology | 3 |
|  | PHAR220 | Foundations of Pharmacology \& Pharmacotherapeutics I | 1 |
|  | CHEM351 | Basic Biochemistry | 3 |
|  | CHEM352 | Experimental Biochemistry | 1 |
|  | PHAR230 | Pharmacy and Health Care I | 2 |
|  | PHAR240 | Professional Skills I | 2 |
|  | ВІом211 | Human Anatomy | 3 |
| Total Credit Hours in Semester |  |  | 17 |
| Spring | PHAR250 | Microbiology for Pharmacy | 3 |
|  | STAT151 | Applied Statistics | 3 |
|  | PHAR201 | Medicinal Chemistry II | 2 |
|  | PHAR210 | Pharmaceutics I | 3 |
|  | В1Ом243 | Introduction to Pathology | 2 |
|  | PHAR221 | Foundations of Pharmacology \& Pharmacotherapeutics II | 1 |
|  | PHAR231 | Pharmacy and Health Care II | 2 |
|  | PHAR241 | Professional Skills II | 2 |
|  | Total Credit Hours in Semester |  | 18 |



| Term | Course \# | Course Title | Credit Hours |
| :---: | :---: | :---: | :---: |
| Fall | PHAR410 | Pharmaceutics IV | 2 |
|  | PHAR470 | Pathophysiology III | 1 |
|  | PHAR420 | Pharmacology III | 2 |
|  | PHAR480 | Pharmacotherapy III | 3 |
|  | PHAR415 | Toxicology | 2 |
|  | PHAR490 | Integrated Case-Based Learning III | 2 |
|  | PHAR440 | Professional Skills V | 2 |
|  | PHAR405 | Pharmacy Research, Evaluation and Presentation Skills III | 1 |
|  | PHAR450 | Healthcare delivery systems | 1 |
|  | PHAR445 | Rx Elective I | 2 |
| Total Credit Hours in Semester |  |  | 18 |
| Spring | PHAR425 | Pharmacognosy, Alternative/ Complementary Treatments | 2 |
|  | PHAR485 | Pediatrics/Geriatrics | 1 |
|  | PHAR471 | Pathophysiology IV | 1 |
|  | PHAR421 | Pharmacology IV | 2 |
|  | PHAR481 | Pharmacotherapy IV | 3 |
|  | PHAR491 | Integrated Case-Based Learning IV | 2 |
|  | PHAR441 | Professional Skills VI | 2 |
|  | PHAR406 | Pharmacy Research, evaluation and presentation Skills IV | 1 |
|  | PHAR446 | Rx Elective II | 3 |
| Total Credit Hours in Semester |  |  | 17 |
| $\begin{aligned} & \text { Sum } \\ & \text { mer } \end{aligned}$ | PHAR330 | Structured Practical Experiences in Pharmacy II | 4 |
| Total Credit Hours in Semester |  |  | 4 |

FOURTH YEAR ( 27 credit hours)

| Term | Course \# | Course Title | Credit Hours |
| :---: | :---: | :---: | :---: |
| Fall | PHAR530 | Structured Practical Experiences In Pharmacy III | 4 |
|  | PHAR531 | Structured Practical Experiences In Pharmacy IV | 4 |
|  | PHAR532 | Structured Practical Experiences In Pharmacy V | 4 |
|  | PHAR533 | Structured Practical Experiences In Pharmacy VI | 4 |
|  | PHAR 505 | Pharmacy Research, evaluation and presentation skills V | 1 |
| Total Credit Hours in Semester |  |  | 17 |
| Spring | PHAR535 | Pharmacy Management | 2 |
|  | PHAR525 | Pharmacoepidemiology \& Pharmacoeconomics | 2 |
|  | PHAR590 | Integrated Case-Based Learning V | 2 |
|  | PHAR506 | Pharmacy Research, evaluation and presentation skills VI | 1 |
|  | PHAR545 | Rx Elective III | 3 |
|  | total Cre | in Semester | 10 |

COLLEGE OF SHARIA AND ISLAMIC STUDIES
Sharia Building (Women's Section)
Phone: (974) 4403-4447
Email: shariadean@qu.edu.qa
Website: http://www.qu.edu.qa/ar/sharia/index.php
(Men's section)
Phone: (974) 4403-4400
Email: shariadean@qu.edu.qa
Website: http://www.qu.edu.qa/ar/sharia/index.php
Dean
Yousef Mahmood Al-Sidekey
Associate Dean for Academic Affairs Ibrahim Abdulla | Al-Ansari
Associate Dean for Research and Graduate Studies Sultan Ibrahim S K Al-Hashmi

Assistant Dean for Student Affairs Maryam Khairlla R Omer

## ABOUT THE COLLEGE

The mission of the College is to produce competent graduates in Islamic studies of high quality and
international repute who are capable of actively ternational repute who are capable of actively responding to the needs and aspirations of the society
and demonstrating communication and research relate skills in their dissemination of knowledge. The College will also conduct research that addresses classical, modern \& contemporary issues and contributes to the world wide advancement of knowledge in the field.

## degree offerings

The College of Sharia and Islamic Studies offers the following undergraduate Degree programs: - Bachelor of Dawa and Mass Communication -Bachelor of Islamic Studies

## EPARTMENT OF DAWA AND ISLAMIC CULTURE

Sharia Building (Women's Section)
Phone: (974) 4403-4476/4467
mebsite: http://www.qu.edu.qa/ar/sharia/programs.ph
Head
Shafi Al-Hajri
Faculty
Professors:
Mohamed Amezzian, Abdelsalam Bishr Mohamed S Khamis, Abdelkader Bekhouch,. Ali Esa, Mohamed Mrah

Associate Professors:
akaryya Abdelhady, Musaab Al-Idrisi, Shafi Al-Hajn,
Mohammed Iqbal Ahmad Farahat, Ahmad Abdullah Zaid

## Assistant Professors:

Ameena Al-Ansari, Hamed Al-Marwani, Basyouny Nehela Ramadan Mohamed Matarid, Mohamed Rifai Ameen, Eltigani Ahmed, Mahrous Basyouny

## Lecturers:

Muhammad Abdul Rahman al-Masumi
ABOUT THE DEPARTMENT
The Department offers a Bachelor of Dawa and Mass Communication degree; its main purpose lies in producing a team of specialized scholars who are capable of presenting the message of Islam as a tolerant, humane, peace-loving, culturally pluralistic and socially dynamic religion. In this way, we are hopeful of serving Qatari society, as well as the Arab-Islamic world and humanity at arge.

BACHELOR OF DAWA AND MASS COMMUNICATION

## Objectives

Serving the Islamic world by preparing a team of competent scholars who are able to serve at centers of slam and Culture in the western world, where there is a dire need for such people who can relate with the "other" s mentioned in the objectives of the program
Produce graduate who are progressive, enlightened, moderation and open-mindedness. They should be trained o engage in dialogue far from extremist and fanatic endencies.
Acquaint them thoroughly with modern trends of thought
and their religious and philosophical approaches as well influential social and political tendencies which have gained currency.

- Enable them to understand and appreciate the challenges and demands of time and be capable of
accommodating themselves according to its needs. - Create in them the ability to soundly analyze modern social values and behavioral patterns and take a sensibly objective stance towards them.
- Produce graduates endowed with religious commitment, who work in television and broadcasting corporations as well as internet sites, who are additionally capable of doing research work for Islam.
belief system, heritage and civiliza Islam through its a cultured and acceptable manner to the modern mind In this way they would be expected to safeguard Islamic-
Arabic civilization intellectually and in all other aspects.
- Induce in them a positive view and stance towards the culturally "other" and encourage dialogue between
civilizations and religions.
menability and adaptability with its wisdom


## Learning Outcomes

- Understand the nature of different thoughts and
philosophies.
- Consider a variety of ways to make decisions and solve problems
- Preserve and promote pride in Islamic values \& ethics. - Make others know the tolerance of the message of Islam - Hold discussions with others in a methodological \& contemporary way.
as per contemporary trends
- Use modern, mass-adopted technologies - Write scientific research by using diverse tools.


## Opportunities

The Program will attract students who are desirous of working in religiously-oriented mass media, in the field of in the field of religious and civilization dialogue, and in the field of Islamic Culture.
The Program is geared to serve Qatari society by producing graduates who are:

- Teachers of Islamic Sciences

Religious Specialists

- Preachers and Imams for mosques


## Admissions Requirements

Applicants must satisfy QU defined College and Program requirements including the minimum high school
percentage requirement and a personal interview. Detailed Undergraduate admission requirements are vailable at the following link: http://www.qu.edu.qa students/admission/undergraduates.php

Students must satisfy QU requirements for declaring a major including the need to declare the major before completing 36 undergraduate credit hours.
Major in Dawa and Mass Communication A minimum of 120 credit hours are required to complete the major in Dawa and Mass Communication, including the ollowing:
A minimum of 33 credit hours in core curriculum requirements.
A minimum of 39 credit hours of major requirements.

- A minimum of 12 credit hours of major electives.

A minimum of 24 credit hours in minor requirements and electives
A minimum of 12 credit hours of free electives.

## Core Curriculum Program (33 CH)

Common package ( 15 CH )

- ARAB 100 Arabic Language I

ARAB 200 Arabic Language II
ENGL 110 English I
ENGL 111 English II
DAWA 111 Islamic Culture
Social/Behavioral Sciences package (3 CH ) Courses in 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 $\mathbf{C H}$ )
Courses in the CCP defined Natural Science/Mathematics package.

Supplemental College / Program Core Requirements Package (3 CH)
UNIV 100 First Year Semina
General Knowledge package ( 3 CH )
Courses in the CCP defined General Knowledge package

## eneral Skills package ( 3 CH )

Courses in the CCP defined General Skills package
Major Requirements ( 39 CH )

ISLA 101 Studies in Islamic Creed
ISLA 102 Quranic Sciences
ISLA 104 Sciences of Hadith
DAWA 204 Research Methodology DAWA 202 Introduction to General Philosophy
DAWA 203 Principles \& Methodology of Dawa
DAWA 301 Contemporary issues of Figh
DAWA 302 World Religions (Comparative Studies)
DAWA 303 Comparative Mysticism
DAWA 401 Area Studies
DAWA 402 World Religious Thought
DAWA 403 Graduation Project (Capstone)

## ajor Electives (12 CH)

tudents must complete a minimum of
courses selected from the following list:
ISLA 201 Principles of Islamic Jurisprudence
ISLA 106 Figh of Worship
DAWA 117 Ethics
DAWA 214 Textual Study of the Quran
DAWA 206 International Organizations \& Human Rights
DAWA 207 Islamic Institutions
DAWA 222 Alliance of Civilizations
ISLA 308 Contemporary Intellectual Trends
DAWA 305 Modern Philosophy
DAWA 306 History of Religion
DAWA 405 Independent Studion

## Minor in Mass Communication ( 24 CH )

 Students must complete the minor in Mass Communication
## Free Electives ( 12 CH )

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


| FIRST YEAR (30 credit hours) |  |  |  |
| :---: | :---: | :---: | :---: |
| Term | Course \# | Course Title | Credit Hours |
| Fall | ARAB 100 | Arabic language | 3 |
|  | ISLA 101 | Studies in Islamic Creed | 3 |
|  | MCOM 103 | Media and Society | 3 |
|  | DAWA 113 | Philosophy of Sirah | 3 |
|  | xxxx xxx | Core Curriculum | 3 |
| Total Credit Hours in Semester |  |  | 15 |
| Spring | ARAB 200 | Arabic Language | 3 |
|  | ISLA 102 | Quranic Sciences | 3 |
|  | ISLA 104 | Sciences of Hadith | 3 |
|  | DAWA/ ISLA XXX | Major Electives | 3 |
|  | xxxx xxx | Core Curriculum | 3 |
|  | Total Credit | urs in Semester | 15 |


| Term | Course \# | Course Title | $\begin{array}{\|l\|} \hline \text { Credit } \\ \text { Hours } \\ \hline \end{array}$ |
| :---: | :---: | :---: | :---: |
| Fall | DAWA 111 | Islamic Culture | 3 |
|  | ENGL 110 | English I | 3 |
|  | MCOM 223 | Media Writing | 3 |
|  | DAWA 203 | Principles and Methodology of Dawa | 3 |
|  | DAWA/ ISLA XXX | Major Electives | 3 |
| Total Credit Hours in Semester |  |  | 15 |
| Spring | ENGL 111 | English II | 3 |
|  | мCOM 222 | Communication Theories | 3 |
|  | DAWA 204 | Research Methodology | 3 |
|  | DAWA 202 | Introduction to General Philosophy | 3 |
|  | $\begin{aligned} & \text { MCOM } \\ & \text { XxX } \end{aligned}$ | Minor Electives | 3 |
| Total Credit Hours in Semester |  |  | 15 |


| THIRD YEAR (30 credit hours) |  |  |  |
| :---: | :---: | :---: | :---: |
| Term | Course \# | Course Title | Credit Hours |
| Fall | DAWA 301 | Contemporary Issues of Fiqh | 3 |
|  | DAWA 303 | Comparative Mysticism | 3 |
|  | $\begin{aligned} & \text { MCOM } \\ & \mathrm{XXX} \end{aligned}$ | Minor Electives | 3 |
|  | xxxx xxx | Free Electives | 3 |
|  | xxxx xxx | Core Curriculum | 3 |
| Total Credit Hours in Semester |  |  | 15 |
| Spring | DAWA 302 | World Religions (Comparative Studies) | 3 |
|  | DAWA <br> ISLA XXX | Major Electives | 3 |
|  | $\begin{aligned} & \mathrm{MCOM} \\ & \mathrm{xxx} \end{aligned}$ | Minor Electives | 3 |
|  | xxxx xxx | Free Electives | 3 |
|  | xxxx xxx | Core Curriculum | 3 |
|  | Total Credit | rs in Semester | 15 |


| FOURTH YEAR (30 credit hours) |  |  |  |
| :---: | :---: | :---: | :---: |
| Term | Course \# | Course Title | Credit Hours |
| Fall | DAWA 401 | Area Studies | 3 |
|  | $\begin{aligned} & \text { MCOM } \\ & \text { XXX } \end{aligned}$ | Minor Electives | 3 |
|  | DAWA/ <br> ISLA XXX | Major Electives | 3 |
|  | xxxx xxx | Free Electives | 3 |
|  | xxxx xxx | Core Curiculum | 3 |
| Total Credit Hours in Semester |  |  | 15 |
| Spring | DAWA 402 | World Religious Thought | 3 |
|  | DAWA 403 | Graduation Project | 3 |
|  | $\begin{aligned} & \text { MCOM } \\ & \text { XXX } \end{aligned}$ | Minor Electives | 3 |
|  | xxxx xxx | Free Electives | 3 |
|  | xxxx xxx | Core Curriculum | 3 |
| Total Credit Hours in Semester |  |  | 15 |

## DePARTMENT OF ISLAMIC STUDIES

Sharia Building (Women's Section)
hone: (974) 4403-4424/4425/448
Website: http://www.qu.edu.qa/ar/sharia/programs.php
Head
Salih K Karim al-Zank
Faculty

## Professors:

Salih K Karim al-Zanki, A.hakeem Yousuf A Alkhelaifi, Aisha Yousuf Al-Mannai, Abdulhakeem Abdulrahman A Alsaadi, Muhammed Aydin, Hessa A.Aziz M Al-Sowaidi
Basher, Yousuf Aahm, Mekki Klaina, al-G

## Associate Professors:

Saad-Eddine Dedeche, Abdel Jabbar Ahmad Mohammad Said, Ayman Ali Saleh, Adnan Al-Hamwi Al-Olabi

## Assistant Professors:

Mohammed Saleh M S Alsheeb, Ibrahim Abdulla I AlAnsari, Yahya Hamad Al-Naemi, Mahroof Athambawa, Essa Abdulla A Kahoni, Hassan Yachou, Sultan Ibrahim, Ahmad al-Own, Mahmoud Said Hamida Attia, Mohamed Abdel Latif Rajab

## ABOUT THE DEPARTMENT

The Department offers a Bachelor of Islamic Studies degree, and its main purpose lies in producing a team of specialized scholars who are capable of presenting the message of Islam and able to address contemporary issues through a combination of tradition and modernity.

## BACHELOR OF ISLAMIC STUDIES

The Islamic Studies major aims to help students:

1. Promote the right understanding of Islam as a method o
life away from extravagance and negligence.
2. Deal with basic resources of Islam and legal texts
according to the original right device, and its application in he real life.
3. Develop balanced critical thinking and research, through ifferent methods.
Positively connect with the heritage of Islamic thoughts, ufism and phil schools of jurisprudence, theology,
addressing contemporary life issues
4. Thoroughly understand the history and development of
slamic Civilization and its human achievements. 6. Promote good manners regarding differences, deal between civilizations, and realize effective coexistence under multiculturalism.
5. Acquire modern means of communication and
information technology to address contemporary issues. 8. Logically face ideological and behavioral deviances, and wrongful judgments.
6. Become advisors and researchers who will meet the needs of society, by spreading Islamic thought and values

## Learning Outcomes

At the end of the program, the student should:

1. Know the basic resources of Islam and the principles and methods of Islamic jurisprudence.
2. Share noble humanitarian Islamic values
3. Scientifically analyze Islamic legal texts.
4. Know and scientifically devise Islamic Rulings and combine tradition and modernity.
ific Islamic Heritage to address contemporary issues
. ${ }^{\text {. }}$ extreme behavior - others and refrain from excessive
5. Write scientific research in different branches of Islamic knowledge and have the necessary language tools.
. Know intellectual and cultural Islamic heritage.
. Combine tradition and modernity.
Know and critically deal with Western efforts in the field of Islamic Studies.

## Opportunities

This Islamic Studies major is geared to serve the Qatar society by producing graduates who are.
Teachers of Islamic Studies.

- Workers in Islamic courts and the Ministry of Justice. Religious media figures.
Preachers and Imams in the Ministry of Islamic Affairs Workers in the Supreme Council for Family affairs. Worker in Isamic Financiat Instit


## Admissions Requirements

Applicants must satisfy QU defined College and Program requirements including the minimum high school percentage requirement.
Detailed Undergraduate admission requirements ar link: http://www.qu.edu.qa students/admission/undergraduates.php

## 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 Islamic Studies

A minimum of 120 credit hours are required to complete
he major in Islamic Studies, including the following:
requirements.
A minimum of 42 credit hours of major requirements.
A minimum of 9 credit hours of major electives.
A minimum of 24 credit hours of concentration
aquirements and electives

## Core Curriculum Program (33 CH)

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

## 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 ourses 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

## upplemental College / Program Core Requirement

 Package (3 CHUNIV 100 First Year Seminar
General Knowledge package (3 CH)
Courses in the CCP defined - General Knowledg
package
General Skills package (3 CH )
Courses in the CCP defined - General Skills package
Major Requirements (42 CH)
ISLA 101 Studies in Islamic Creed
ISLA 102 Quranic Sciences
SLA 103 Quranic Exegesis
SLA 104 Sciences of Hadith
SLA 105 Analytical Hadith
ISLA 106 Figh of Worship
ISLA 201 Principles of Islamic Jurisprudence

- ISLA 202 Logic and Research Methodology ISLA 203 Fiqh of Transaction
ISLA 204 Sufism and E
ISLA 301 Contemporary Methods in I.S
DAWA 113 Philosophy of Sirah
- ISLA 401 Graduation Project


## Major Electives (9 CH)

ISLA 207 Analytical Exegesis
ISLA 210 Thematic Hadit
ISLA 308 Contemporary Intellectual Trends

- ISLA 205 Intellectual Foundations of Islamic Civilization

ISLA 209 Islamic Studies in Contemporary Thought

- DAWA 306 History of Religions

ISLA 206 The Objectives of the Sharia
ISLA 107 Precepts of Figh

- DAWA 207 Islamic Institutions
- ISLA 307 Islamic Constitutional and Administrative Law ISLA 211 Islamic Studies in Legislative and Legal Though - ISLA 212 Islamic Penal Code

Concentration in Sharia ( 24 CH )
Students must complete a minimum of 15 CH in
concentration requirements and a minimum of 9 CH in concentration electives
Sharia Concentration Requirements ( 15 CH )
FIQH 303 Fiqh of Zakat and Awqa
FIOH 305 Islamic Ruling and Implicatio
FIQH 402 Companies, Documentation and Donation
FIQH 403 Fiqh of Inheritance and Bequest

## Sharia Concentration Electives ( 9 CH )

FIQH 319 Fiqh of Procedures
FIQH 415 Islamic International Law
FIQH 418 Contemporary litihad
-FIQH 325 The Philosophy of Islamic Law
FIQH 421 Figh of Evidence
Concentration in Usuluddin ( 24 credit hours)
Students must complete a minimum of 15 CH in concentration requirements and a minimum of 9 CH in oncentration electives

Usuluddin Concentration Requirements ( 15 CH )

- USUL 301 Principles of Exegesis

USUL 301 Principles of Exeg
USUL 335 Contemporary Studies in Quran and Sunna

- USUL 403 Methodology of Muhadditheen: Theory and Practice
DAWA 302 World Religions (Comparative Studies)

Usuluddin Concentration Electives (9 CH )
USUL 308 Legislative Texts of Hadith
USUL 405 Miracle of the Quran
USUL 407 Thematic Exegesi
USUL 439 Contemporary Muslim World

Study Plan: Concentration in Sharia

| FIRST YEAR (30 credit hours) |  |  |  |  |  |
| :--- | :--- | :--- | :--- | :---: | :---: |
| Term | Course \# | Course Title | Credit <br> Hours |  |  |
| Fall | ARAB 100 | Arabic I | 3 |  |  |
|  | ISLA 101 | Studies in Islamic Creed | 3 |  |  |
|  | ISLA 103 | Quranic Exegesis | 3 |  |  |
|  | ISLA 105 | Analytical Hadith | 3 |  |  |
|  | DAWA 113 | Philosophy of Sirah | 3 |  |  |
| Total Credit Hours in Semester |  |  |  |  | 15 |
| Spring | ARAB 200 | Arabic II | 3 |  |  |
|  | ISLA 102 | Quranic Sciences | 3 |  |  |
|  | ISLA 104 | Sciences of Hadith | 3 |  |  |
|  | ISLA 106 | Fiah of Worship | 3 |  |  |
|  | XXXX XXX | Core Curriculum | 3 |  |  |
| Total Credit Hours in Semester |  |  |  |  |  |


| SECOND YEAR ( 30 credit hours) |  |  |  |
| :---: | :---: | :---: | :---: |
| Term | Course \# | Course Title | Credit Hours |
| Fall | DAWA 111 | Islamic Culture | 3 |
|  | ENGL 110 | English I | 3 |
|  | ISLA 201 | Principles of Islamic Jurisprudence | 3 |
|  | ISLA 203 | Fiqh of Transactions | 3 |
|  | DAWA <br> ISLA XXX | Major Electives for Sharia | 3 |
| Total Credit Hours in Semester |  |  | 15 |
| Spring | ENGL 111 | English II | 3 |
|  | ISLA 202 | Logic and Research Methodology | 3 |
|  | ISLA 204 | Sufism and Ethics | 3 |
|  | DAWA/ ISLA XXX | Major Electives for Sharia | 3 |
|  | xxxx xxx | Core Curriculum | 3 |
| Total Credit Hours in Semester |  |  | 15 |



Study Plan: Concentration in Usuluddin

| FIRST YEAR (30 credit hours) |  |  |  |
| :---: | :---: | :---: | :---: |
| Term | Course \# | Course Title | Credit Hours |
| Fall | ARAB 100 | Arabic I | 3 |
|  | ISLA 101 | Studies in Islamic Creed | 3 |
|  | ISLA 103 | Quranic Exegesis | 3 |
|  | ISLA 105 | Analytical Hadith | 3 |
|  | DAWA 113 | Philosophy of Sirah | 3 |
| Total Credit Hours in Semester |  |  | 15 |
| Spring | ARAB 200 | Arabic II | 3 |
|  | ISLA 102 | Quranic Sciences | 3 |
|  | ISLA 104 | Sciences of Hadith | 3 |
|  | ISLA 106 | Fiqh of Worship | 3 |
|  | Xxxx xxx | Core Curriculum | 3 |
| Total Credit Hours in Semester |  |  | 15 |


| SECOND YEAR (30 credit hours) |  |  |  |
| :---: | :---: | :---: | :---: |
| Term | Course \# | Course Title | Credit Hours |
| Fall | DAWA 111 | Islamic Culture | 3 |
|  | ENGL 200 | English Language I for Arts, Sharia and Education | 3 |
|  | ISLA 201 | Principles of Islamic Jurisprudence | 3 |
|  | ISLA 203 | Fiqh of Transactions | 3 |
|  | DAWA/ ISLA XXX | Major Electives for Usuludddin | 3 |
| Total Credit Hours in Semester |  |  | 15 |
| Spring | ENGL 201 | English Language II for Arts, Sharia and Education | 3 |
|  | ISLA 202 | Logic and Research Methodology | 3 |
|  | ISLA 204 | Sufism and Ethics | 3 |
|  | DAWA/ <br> ISLA XXX | Major Electives for Usuludddin | 3 |
|  | xxxx xxx | Core Curriculum | 3 |
|  | Total Credit Hours in Semester |  | 15 |


| THIRD YEAR (30 credit hours) |  |  |  |
| :---: | :---: | :---: | :---: |
| Term | Course \# | Course Title | Credit Hours |
| Fall | ISLA 301 | Contemporary Methods in I.S. | 3 |
|  | DAWA/ ISLA XXX | Major Electives for Usuludddin | 3 |
|  | USUL 301 | Principles of Exegesis | 3 |
|  | USUL 335 | Contemporary Studies in Quran and Sunna | 3 |
|  | xxxx xxx | Core Curriculum | 3 |
| Total Credit Hours in Semester |  |  | 15 |
| Spring | ISLA 302 | Family Jurisprudence | 3 |
|  | USUL 302 | Islamic Theology | 3 |
|  | xxxxxxx | Core Curriculum | 3 |
|  | xxxx xxx | Free Electives | 3 |
|  | USUL XxX | Usuluddin Concentration Electives | 3 |
| Total Credit Hours in Semester |  |  | 15 |


| FOURTH YEAR ( 30 credit hours) |  |  |  |
| :---: | :---: | :---: | :---: |
| Term | Course \# | Course Title | Credit Hours |
| Fall | USUL 403 | Methodology of Muhadditheen: Theory and Practice | 3 |
|  | USUL Xxx | Usuluddin Concentration Electives | 3 |
|  | xxxx xxx | Free Electives | 3 |
|  | xxxx xxx | Free Electives | 3 |
|  | xxxx xxx | Core Curriculum | 3 |
| Total Credit Hours in Semester |  |  | 15 |
| Spring | DAWA 302 | World Religions (Comparative Studies ) | 3 |
|  | xxxx xxx | Core Curriculum | 3 |
|  | ISLA 401 | Graduation Project | 3 |
|  | Xxxx xxx | Free Electives | 3 |
|  | USULXXX | Usuluddin Concentration Electives | 3 |
| Total Credit Hours in Semester |  |  | 15 |



## College of Medicine

College of Medicine Building

## Phone: 44037800

Website: $\mathrm{http}: / / w w w . q u . e d u . q a / m e d i c i n e$

## Dean and VP for Health Education

Prof. Egon Toft
Associate VP for Strategy and Development Dr. Christiane Mueck

## Assistant VP for Communications and Outreach

 Zeina Al AzmehAssociate Dean for Academic Affairs Prof. Hossam Hamdi
Associate Dean for Clinical Affairs Dr. Abdullatif Al Khal

## Assistant Dean for Student Affairs

 Ghada Al Kuwari
## ABOUT THE COLLEGE

The College of Medicine is the 8th college at Qata University. It was established in 2014, following an Emiri 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 wellaligned 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 competenc 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 additio
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 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 equired to maintain a certain level of achievement and 0 satisfy a number of student progression requirements successfully complete the program and earn the MD degree, student must satisfy the university and the MD program graduation requirements.

## Program Objectives

. To graduate medical doctors who are competent as professionals, caring as practitioners, and equipped, as life-long learners, with the knowledge, skills and attitudes 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
The MD program defines six competency domains each with specific student learning outcomes that should be acquired and mastered by the program graduates. These competency domains and student learning outcomes are adopted and adapted with sensitivity to the cultural contex of medical practice in Qatar and the Gulf region. Following ternational standards, the six competency domains are A. Patient \& Population Care
B. Knowledge
C. Evidence-Based Practice and Lifelong Learning D. Interpersonal and Communication Skills
E. Ethics \& Professionalism
F. Healthcare Systems and Cost Effective Practice 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 tha problem including issues related to age, gender and socio-economic status.
A-O2. Reason deductively in solving clinical problems. 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 leve suitable to medical students.
A-O5. Construct basic appropriate management
strategies (both diagnostic and therapeutic) for patients
with common conditi and genders, both acute and chronic, including groups psychiatric, and surgical conditions, and those requiring short- and long-term rehabilitation.
A-O6. Formulate a treatment plan, demonstrating the ability to take action by balancing the relative risks and A-07. Recognize patients with immediately.
A-O7. Recognize patients with immediately conditions regardless of etiology, and to institute appropriate initial therapy applying Basic Life Support and Advanced Life Support principles.
A-O8. Outline an initial course of management for patients with serious conditions requiring critical care A-O9. Identify factors that place individuals at risk for
disease or injury, to select appropriate tests for disease or injury, to select appropriate tests for detecting of disease, and to determine strategies for responding appropriately (screening).
A-O10. Interpret laboratory tests, demonstrating knowledge of the limitations of standard laboratory measurements and integrate clinical and laboratory findings in the diagnosis and management of a patient problem.
A-O11. Document and share patient-specific information, demonstrating the ability to use information systems specific findings about a patient and orders directing the further care of the patient. A-O12. Define and describe a population, to include demography, cultural and socioelth status, and to circumstances of living, and health status, and to understand the relevance of these factors to the
health and healthcare of individuals, families and health and hea
B. Knowledge

B-O1. Apply the knowledge about the normal structure and function of the body (as an intact organism) and of each of its major organ 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 th body's homeostasis.
B-O3. Recognize the various causes (genetic,
developmental, metabolic, toxic, microbiologic,
autoimmune, neo-plastic, degenerative, and traumatic) o 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 common diseases in diagnosis and management
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-biologica determinants of (poor) health and of the economic,
psychological, social, and cultural factors that contribut to the development and/or continuation of diseases. B-O9. Knowledge of the epidemiology of common diseases within a defined population, and the systematic approaches useful in reducing the incidence and prevalence of those diseases.
C. Evidence-Based Practice and Lifelong Learning
C-O1. Determine what data exist reative to C-01. Determine what data exist relative to a clinical question or formal hypothesis, demonstrating knowledg data) at one's own institution by identifying how these might be used to address a specific clinical question. 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 approp C -04. Demonstrate knowledge of the information resources and tools available to support life-long learning. Knowledge includes awareness of these resources, their content, and the information needs that they can address. Relevant resources include MEDLINE and other bibliographic databases, textbooks and reference sources, dias
C -O5. Retrieve information, demonstrating the ability to refine search strategies to improve relevance and completeness of retrieved items.
C-O6. Filter, evaluate, and reconcile information, demonstrating the ability to discriminate between types
of information sources in terms of their currency, form for example a review vs. an original article), authority, relevance and availability.
D. Interpersonal and Communication Skills

D-O1. Use effective communication skills to elicit and provide information using values and attitudes and effective verbal, nonverbal (explanatory, questioning) writing skills.
D-O2. Use effective writing skills to transmit information, express concerns, help etc.
-O3. Listen to and respect the view of patients and their supporters
D-O4. Listen to and respect the view of other members of D-O5. Recognize in the patient's care patients for information and explanation needs of D-O6. Encourage patients to discuss the proposed treatment with their supporter
D-O7. Fully inform the patient, and their supporter of progress during treatment
D-O8. Explain any complications of treatment as they occur and explain the possible solution
and apologize when appropriate and apologize when appropriate
iterprofessional groups, and individual, in healthcare system, demend as a member of a complex resources for levistamonstrating knowledge of online healthcare policy setting
Ethics and Professionalism
$\mathrm{E}-\mathrm{O1}$. Apply the theories and principles that govern
ethical decision making in understanding major ethical dilemmas in medicine, particularly those that arise at the beginning and end of life and those that arise from the rapid expansion of knowledge of genetics.
E-O2. Compassionate treatment of patients, and respect for their privacy and dignity
$\mathrm{E}-\mathrm{O} 3$. Honesty and integrity in all interactions with patients' families, colleagues, and others with whom physicians must interact in their professional lives. E-O4. An understanding of, and respect for, the roles collaborate with others in caring for individual patients and in promoting the health of defined populations. E-O5. A commitment to advocate at all times the interest of one's patients over one's own interests. E-O6. An understanding of the threats to medical professionalism posed by the conflicts of interest inheren he practice of medicine. icin
one's knowledge and clinical skills, and a commitment to continuously improve one's knowledge and ability. E-O8. Respect patient (and physician) confidentiality,
demonstrating knowledge of the legal, ethical, and medical issues surrounding patient documentation including confidentialty and data security
F-01. Formulate and make decisions for individu groups, demonstrating knowledge of cost/benefit issues in healthcare.
$\mathrm{F}-\mathrm{O} 2$. Knowledge about how local healthcare system deliver patient care to different kinds of patients.

## OPPORTUNITIES

After successful completion of the study program, student will be awarded a Medical Doctor (MD) degree and be repared for taking one of the international medical censing exams are independent from the study plan, the program will prepare graduating students for them, ncluding 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. specialization or graduate studies abroad or in Qatar. 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.
ssion requirements ar students/admission/undergraduates.php

## 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 satis he following:
School: Biology, Chen Provido a brie stamistry or Physics.
(around 350 words) to - Support ecandidate's motivation to study medicine. in the healthcare in the healthcare sector, medical or scientific internships,
or community work (recommended).

## Degree Requirements

## Medical Doctor

A minimum of 40 Credit Hours and 300 ECTS (European redit Transfer and accumulation System). are required 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
- 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
-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 ।
ENGL 202 English Post Foundation
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 Student must complete 3 CH from courses list
defined Social/Behavioral Sciences package.

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 $\mathbf{C H}$ )

Student must complete 4 Credit Hours from courses listed below.

EM 101 General Chemistry I
CHEM 103 Exp. General Chemistry
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 Science
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 $(30$ FCTS) 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 to community
MEDI 202 Genes to comm
MEDI 203 Body Defense
MEDI 204 Cardiovascular System
MEDI 205 Blood
MEDI 206 Respiratory System
Pre-Clerkship II Requirements Package (57ECTS Year Three)
Clust complete 57 ECTS from courses listed in he Pre-Clerkship II Requirements package as detailed
MEDI 301 Gastrointestinal System \& Nutrition
MEDI 302 Renal System
MEDI 303 Endocrine System
MEDI 304 Reproductive System
MEDI 305 Musculoskeletal System \& Neuroscience ।
Pre-Clerkship III Requirements Package (30 ECTS Year Four, 1st Semester)
Students must complete 30 ECTS from courses listed in he 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
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 Electives package ( 6 ECTS)..

## Cerkship I Requirements Package (28 ECTS - Year

 Four, 2nt Semester)Students must complete 28 ECTS from courses listed in the Clerkship I Requirements Package as detailed below.

MEDI 403 Medicine \& Surgery 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 503 Obstetrics and Gynecology MEDI 504 Pediatrics

## Study Plan

Clerkship III Requirements Package ( 60 ECTS - Year
Six) Students must complete 60 ECTS from courses listed in te Clerkship III Requirements package as detailed below EDI 601 Emergency Medicine
MED 602 Selected Clinical Clerkships
MEDI 604 Mental Health and Psychiatry II

## lerkship Electives (6 ECTS

Student must complete a minimum of 6 ECTS from Elective courses offered by the program.

| Year | Fall | Spring |
| :---: | :---: | :---: |
| Transition phase |  |  |
| Year 1 | Human Structure \& Function I (4 Cr.H.) | Human Structure \& Function II (4 Cr.H.) |
|  | General Chemistry \& Exp. General Chemistry (4. Cr.H.) | Medical Biochemistry (4 Cr.H.) |
|  | Medical Education (3 Cr.H.) | Biostatistics for Health Sciences (3 Cr.H.) |
|  | English Post Foundation I (3 Cr.H.) | English Post Foundation II (3 Cr.H.) |
|  | Additional Core Curriculum (3 Cr.H.) | Additional Core Curriculum in second semester or at later stage (9 Cr.H.) |
| Pre-Clerkship phase |  |  |
| Year 2 | Induction (1 ECTS) | Cardiovascular System (10 ECTS) |
|  | Genes to community (14 ECTS) | Blood (8 ECTS) |
|  | Body Defense (15 ECTS) | Respiratory System (9 ECTS) |
|  |  | Elective (6 ECTS) in year 2 or in year 3 |
| Pre-Clerkship phase |  |  |
| Year 3 | Gastrointestinal System/ Nutrition (13 ECTS) | Reproductive System (9 ECTS) |
|  | Renal System (9 ECTS) |  |
|  | Endocrine System (9 ECTS) | Neuroscience l (17 ECTS ) |
|  |  | Elective (6 ECTS) in year 2 or in year 3 |
| Pre-Clerkship phase |  | Clerkship phase |
| Year 4 | Neuroscience II \& Mental Health I (20 ECTS) | Medicine \& Surgery I (14 ECTS) |
|  | Multi-System (10 ECTS) | Family Medicine (13 ECTS) |
|  |  | Elective (6 ECTS) in year 4 or in year 5 |
| Clerkship phase |  |  |
| Year 5 | Surgery II (14 ECTS) | Obstetrics \& Gynecology (14 ECTS) |
|  | Medicine II (14 ECTS) | Pediatrics (14 ECTS) |
|  |  | Elective (6 ECTS) in year 4 or in year 5 |
| Clerkship phase |  |  |
| Year 6 | Emergency Medicine (16 ECTS) | Family Medicine (16 ECTS) |
|  | Selected clinical clerkships (14 ECTS) | Mental Health and Psychiatry II (14 ECTS) |



## CHAPTER 13

## COURSE LISTING

## ACCT 110

## Financial Accountin

## Credit Hours: 3

This course introduces financial accounting for various business entities. Topics covered include accounting concepts and principles based on generally accepte accounting principles (GAAP). Emphasis will be on analyzing, recording, classifying, and communicating information, including the preparation of financial statements.

Prerequisite:
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
Credit Hours: 3
Principles of accounting and the relationship between accounting and other disciplines are introduced. Topics
examined include accounting concepts, principles, and examines according accounting concepts, principles, and principles (GAAP). generally accepted accounting 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 budgeting, and relevant costs for decision making.

Prerequisite:
ACCT 110 OR ACCT 111
ACCT 221
Intermediate Accounting I
Credit Hours: 3
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.

ACCT 116 OR ACCT 112

## ACCT 222

Itermediate Accounting II
Credit Hours: 3
his course is the third in the sequence of financial accounting courses. It provides a rigorous exposure to the theory and application of generally accepted accounting
principles, particularly in the areas of liability and equity accounts as well as financial reporting.

Prerequisite:
ACCT 221
АССт 331

## Cost \& Managen

This course provides an in-depth study of cost/
This course provides an in-depth study of cost/ 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 <br> Auditing I

Credit Hours: 3
This course introduces basic concepts of auditing attestation and assurance. Areas studied include the 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
This course provides an overview of the concepts and procedures of fund accounting. The general framework State Budget will be addressed in addition to the

Prerequisite:
ACCT 116 OR ACCT 112

## ACCT 412

Managerial Accounting
Credit Hours: 3
Use of accounting information in a rational decisionMaking process in both the short term and the long run. performance analysis, and budgeting planning and contro will be addressed.

## Prerequisite ACCT 325

413
Auditing il
This course provides the continuation of concepts of auditing attestation and assurance studied in Auditing 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

## ACC 415

Cost Accounting
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). darional topics exam aned are the standard cost sy ariance analysis for all cost elements, the cost of different products. The cost construction system, as well as preparing the cost's reports will also be addressed.

## Prerequisite <br> ACCT 325

## ACCT 418

## Advanced Account

Credit Hours: 3
This course focuses on accounting for business combinations and consolidated financial statements. ternational accounting and foreign exchange translation accounting for partnership formation and liquidation and

## Prerequisite

## ACCT 221

## ACCT 419

## nternal Audit I

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 tisks and auditing techniques, conducting internal audit engagements, and more

## Prerequisite

CCT 333

## ACCT 421

## ccounting Information Systems

redit Hours: 3
This course focuses on concepts and procedures related 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

## АССТ 424

## ional Accounting

resenting accounting issues related to internationa usiness transactions, harmonization of accounting poviples, and comparative accounting systems. Topics accounting of changing prices, international financial statement analysis, auditing for global operations, taxation managerial accounting issues and the International Accounting Standards (IAS).

Prerequisite:
ACCT 116
ACCT 428

## Anal Stements Analysis

## Credit Hours: 3

This course examines performance evaluation of projects rom accounting and financial perspectives. Areas studied include trend analysis, ratio analysis, vertical and tatemtal analysis for different financial statements, and statement of cash flow analysis

## Prerequisite

ACCT 116 OR ACCT 112

## ARAB 100

Arabic Language
The course aims to provide students the important skills to communicate in Arabic; listening, speaking and reading with attention to writing skills in relation to each. This is done through content that includes a variety of topics related to Contemporary Arabic, through deep analysi introduced in an interactive learning environment based on: 1) student activities, 2) Developing student skills, 3) learning and collaborative methods, 4) Communication skills for self-expression and ideas in different ways, 5) Solving problems through critical thinking skills and 5) Solving problems through critical thinking skiils and
creativity, and 6) The absorption of ideas in different contexts. The assessment process uses a variety of tools to measure the attainment of student learning outcomes.

\section*{ARAB 107

\section*{ARAB 107

## ARAB 107 <br> Arabic Language Basics

redit Hours: 3
, course is designed to introduce learners of Arabic as a second/foreign language to the basic structures of Arabic and to its uses in common situations of everyday communication; through a content which relates to every day familiar situations and some apparent aspects of Native Speaker student to acquire fundamental working knowledge of the Arabic Language through interactive exercises and drills. This is done within a framework of the essentials of syntax and morphology in a student-centered learning environment, in order to be able to successfully handle a number of interactive, task-oriented, and social situations.

## ARAB 109

## Language Skills Credit Hours: 3

This course aims to enable the student acquire the four language skills (listening, speaking, reading and writing), i.e. to develop the skill of speaking sound Arabic; enhance communication with others; master the skills of reading, sending / receiving and understanding oral and written dentify proper ways of usage. All this is achieved through entify proper ways of usage. Althis is acheved through language, with attention to acquiring the knowledge of types of speech and signs of each type; differentiating inflected and uninflected forms and knowing the signs of both; and recognizing the two types of the Arabic sentence
and their components, in an active-learning studentcentered atmosphere, utilizing various learning activities, including readings of quality linguistic and literary source absorbing source texts, with a relative weight of up to $80 \%$ of the skill, employing var

## ARAB 110

Introduction to Literature \& Language
Credit Hours: 3
his course aims at building students' familiarity with and competence in Arabic literature in its various genres, so develop their awareness of its concepts through the study of poetry and short story

Prerequisite:
(ARAB 239 Concur. AND AND ARAB 106 Concur.) OR ARAB 105 Concur. OR ARAB 100 Concur.) OR ARAB 109

## ARAB 200

## Arabic Language II

The course aims at enabling the student to master the skill of the Arabic writing, and scientific and professional communication. These aims will be realized by the course content, which combines the basics of the language and linguistic rules to regulate the methods of writing and experience on the skills of the Arabic writing in Traditionally and contemporary, and 3) Descriptively Traditionally and contemporary, ands) Descripively and written problems by self-learning and collaborative environments that develop creative skill, dialogue,
discussion, and critical thinking. It will also promote methods of written expression toward both the self and career, including help in the acquisition of knowledge, and building cultural awareness and good citizenship. the various assessment tools that focus on the students' writing skills, in order to achieve the desired learning ou

Prerequisite:
ARAB 100 OR ( ARAB 105 AND ARAB 106)

## ARAB 201

Arabic Language Basics - Advanced
Credit Hours: 3
This course aims to enable the students of non-speakers f Arabic to acquire the core skills in Contemporary Arabic epresented by listening, speaking, reading, and writing
 also helps students to express themselves orally and
in writing on familiar topics. This course is based on an active learning environment, through authentic sources, ussessment tols will be implemented

Prerequisite:
ARAB 107 OR ARAB 043

## ARAB 213 Grammar I

Grammar I
Credit Hours:
Credit Hours: 3
nis course aims to provide students with the functional rules of some Arabic grammar sections; addressing the substitutes; explaining the provisions of the verbal sentence, acquainting students with the provisions of the subject and subject of the perdicate; explaining the direct object and its association with to the subject in terms of precedence, announcement and/or omission; completing the other types of objects, identfying their synthetic forms; and finally, explaining the sections of semi-objects, such done in an active learing atmosphere, employing various assessment tools (presentations, tests, etc.).

## ARAB 218

## Morphology <br> Credit Hours: 3

This course deals with science of morphology in the Arabic language, providing the historical context surrounding the emergence of this science, its importance, subject
matter and concept; studying its sections starting with the morphological scale and its forms, analyzing verb classifications into abstract, true, augmented and weak; explaining the attribution of all verb forms to pronouns; addressing derivatives such as active participle, intensive form, passive participle, parable adjective, adverbs of time and place, comparative adjective, instrumental noun; also explaning infinitive forms and types; explaining the ascribed noun, diminutive noun, broken plural; andexplaining phonological symptoms of weakening or
substitution, giving special care to exercises and linking forms to semantics and generating forms to denote novelties. All this is done in an active learing atmosphere, employing various assessment tools (research papers, presentations, tests, etc.)

## ARAB 221

## Classical Arabic Poetry I

Credit Hours: 3
Arabic poem in pre-Islamic and the Umayyad eras: The course covers poetry of Pendants ("Mu'allaqat"), tramp and knight poets of the pre-Islamic era. It also addresses the romantic and political poetry during the Umayyad era.

The focus in this course is on explaining the structural and conceptual characteristics achieved by poem in both the pre-Islamic and the Umayyad eras. All this is done in an
active learing atmosphere, employing various assessment tools (research papers, presentations, tests, etc.) This course aims to enable the student to re-examine the old Arabic poetry, by focusing on the path of transformations witnessed throughout the two eras mentioned above.

## ARAB 223

## lassical Arabic Poetry II

Credit Hours: 3
This course aims to make the student assess the changes hat Arabic poem had gone through during the Abbasid ra and in the Arabian Maghreb (Northwest African) and Andalusia regions. Therefore, the focus is on the Originators' ""Moualledin") poetry, and explaining the
contibutions they've made to Arabic poetry. Focus is al placed placed on the successive authentication process by poets of the likes of Abu Tammam, Al-Bohtori, Al-Mutanabbi and Al-M arri. The course aims also to make the students Andalusia poets; all this in an active learing atmosphere, employing various assessment tools (poetry readings, research papers, presentations, tests, etc.)

## Prerequisite

ARAB 221 OR ARAB 240

## ARAB 224

## Classical Arabic Prose

Credit Hours: 3
The purpose of this course is to make the student make re-consider all knowledge they acquired on prose in the Arab culture, 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 part shall be based analyzing samples of those prose genres, studying them and identifying their intellectual and aesthetic characteristics. All this is done in an active learing atmosphere, employing various assessment tools (research papers, presentations, tests, etc.)

## ARAB 225

## Qatari Folk Literature

Credit Hours: 3
This course attempts to introduce students to the concept ffolklore, its definitions, features and genres. Students will explore the social functions of folklore which fulfil societies' aesthetical needs in general and the Qatari society in particular. This will be achieved by studying a
rich repertoire includes popular poetry, folktales, proverbs, olksongs extended over different historical periods. Such deeply to the Qatari society. To achieve its goals, the course employs different teaching means and method 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 aesthetical 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 Rethorics

## Rethorics Credit Hours:

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, the course covers the science of Eloquence and metonymy; the science of Connotation and the science of Figurative speech (literal and conceptual) The course concludes with a poem or a Quranic verse for the students to apply the rhetorical arts which they have learned. All this is done in an active learing atmosphere, employing various assessment tools (applied presentations, tests, critical reading of rhtorical texts, etc.)

## ARAB 262

## Prosody and Metric

This course aims to enable the student to know the basic terminology in the prosody and rhyme, distinguish between the various poetry metrics, read poetic text correctly, and differentiate between measured poetry vs. non-measured. Accordingly, the course covers the various metrics of prosody in ancient poetry, stanzas and free-style poetry, by selected musical tunes to distinguish between the different metrics. All this is done in an active learing atmosphere employing various assessment tools (including musical prosodic reading with a relative weight of $20 \%$, research paper with a relative weight of $15 \%$, presentations, tests, etc.)

## pAB 271

## Persian Language I

Credit Hours: 3
This course aims to enable the student to grasp the basics of Persian language on the level of the alphabet phonetics, verbs and sentences and their formations, attached and detached pronouns, masculine and femin
word forms, definite and indefinite articles, adjuncts,
adverbs, etc., as well as a number of Persian texts to apply these rules on. Students will get acquainted with a sentences. All this is done in an active learing atmosphere mploying various assesment tols.

## ARAB 273 <br> Hebrew

Credit Hours: 3
This course aims to provide students with a general introduction to the principles of Hebrew language, addressing its historical development among Semitic of writing, reading and speaking, by teaching the pronunciation and writing its letters, composition and structure of words, and building a simple sentence in Hebrew, in addition to teaching the students the most commonly used words to gain enough knowledge to conduct a basic dialogue in Hebrew, accompanied with various exercises: phonetic, textual and linguistic.

## ARAB 319

## Grammar II

This course complements the functional grammar purpose of the previous course. It continues with studying of the provisions of prepositions and adjuncts, providing suitable traditional and modern applications for each. This is followed by studying the riders and their significations and provisions. Ater that, verbs, then explains the vocative representations. The course also includes the phrase styles of praise, slander, exclamation, negation, reception, request, alerting, and commencement. The course ends with a collection of parsable and non-parsable phrase forms in a separate lesson. Course contents are accompanied with examples suitable for the situation, and various exercises to enhanc applicable grammaical know employing various assessme ools (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
The purpose of this course is to enable the students apply he 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, social, structural, psychological, semiotic, hermeneutical the student becomes familiar with the application Hence 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 weigh of up to $10 \%$ ], and analytical readings of literary texts [ $10 \%$ ], then a research paper and tests, etc.)

## ARAB 327

## Readings in Li

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 theirArabic heritage in order to question and modernize it, such as: Taha Hussein's project, in both his books "In the pre-Islamic Poetry" and "The Wednesday Interview", etc. The focus of the practical part is to research those 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 (applying 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-diahez through Hazem Alqirtagni. It then moves to address important criticism issues, 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. Al this is done in an active learing atmosphere, employing various assessment tools (research paper, presentations and tests, etc.)

## ARAB 351

rtroduction to
This course aims to enable students to learn the basic principles in the science of linguistics, including the concept of linguistics, methods of linguistic research, and
the levels of the general science of linguistics. The goal of the course is achieved by introducing students to the 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 leve (phonetic level, phonological level, morphological leve, syntax level, and meaning level). The course provides a variety of methods centered around the application activities for students and the use of modern methods such as educational and analytical phonetics programs; all this in an acivel (research paper, presentations and tests, etc.)

## ARAB 352

## Philology

## Credit Hours: 3

The course aims to enable students to understand the basic principles of the Arabic philology, particularly the concepts of language and philology and the difference most important characteristics of the Arabic language and its dialects and manifestations, which Arab linguists studied thoroughly, as well as the history of the Arabic language and its Semitic roots, its relationship with the Holy Quran, ending with contemporary Arabic language issues. The course offers different approaches, centered around the students' individual activities, such as training compare them to the characteristics of old Arabic dialects and training them on the skills of scientific research; and at he 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

The course aims to enable students to understand the modern semantic theories and know their roots in the Arabic heritage; study the levels of semantics, types of meaning and the evolution of semantics. It also aims to provide students with the skills to understand semantics and differentiate between different meanings. The course further seeks to introduce students to the Arabic dictionan and make them acquire necessary skills for searching Different approaches are centered around student activities, such as participating in panel discussions and dialogues and scientific research, using various assessment tools such as assignments, presentations, participation in classroom discussions and blackboard
forums, testing and scientific research - all in an active learing atmosphere.

## \section*{ARAB 355} <br> ARAB 355 Linguistics

redit Hours: 3
This course aims to enable students to learn the basic principles of Applied Linguistics, including the concept of applied linguistics, and 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 analysis to solve the problems of applied linguistics, in light of the experimental analytical studies (for example: light of the experimental analytical studies (for example: computers and the language). The course offers different approaches centered around the engagement of teacher and student during the lecture, and student applied activities, such as field research inside and outside the campus, individual contributions inside the classroom, software, and morphological analysis using the Internet

Prerequisite:
ARAB 351 OR ARAB 248

## ARAB 372

## ersian Language II

Credit Hours:
his course aims to combine theory and application in the ability to produce a spo to help the student acquire This is done through reference content which sheds light on profound rules provided throughout the texts of selected masterpieces of Persian literature by: Mtughar Al-Ferdowsi, Omar Al-Khayyam, and Saiid Shirazi, with special care for the methods of modern prose in particula with translation and commentary, which works towards mproving the climate of individua and cooperative active learning.

ARAB 271 OR ARAB 244

## ARAB 375

## Phonology Credit Hours: 3

This course aims to help the students acquire the skills
This course aims to help the students acquire the skills 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 levels phonetics and phonology in terms of studying phonemic changes in the
context of theories of the basics of phonological analysis on the syllabic and para-syllabic levels, and the focus of this course is to highlight the importance of the level of phonology in linguistic analysis and its overlapping with other levels such as the morphological level (words) and he syntax level (sentences). The course is conducted in an active learning atmosphere, focusing on the role of he student and the development of his/her applied skills, employing a variety of assessm

Prerequisite:
ARAB 218 OR ARAB 346

## ARAB 381

## odern and Contemporary Arabic Poetry

## Credit Hours: 3

The purpose of this course is to help the students know about contemporary poetry practices, transformation 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 with the achievements of the flags of western poets, especially the achievements of William Blake, Coleridge, Wordsworth, Shelly, Keats, Lamartine, and T.S. Elliott. As for the practical part, it will focus on the analysis of texts representing those schools and their achievements oo assimilate the questions proposed to the Arabic poetic laste, and uncover their aesthetic achievements

Prerequisite:

## ARAB 221 OR ARAB 240

## ARAB 382

Modern Narratives The purpose of this course is to acquaint students with
the modern narrative arts which were developed in the contemporary Arabic culture. The theoretical part deals with the emergence of the arts of novel, story and resume taking into account the role played by the acculturation with western cultures in the consolidation of such genres into the Arabic culture and literature. As for the practical part, focus will be on analyzing selected texts to revea the phenomenon of selective quotation from the West,
then the phenomenon of immanence that took place after that, as well as to highlight aspects of developme narratives. All this is done in an active learing atmosp employing various assessment tools (research paper presentations and tests, etc.)

Prerequisite:
ARAB 224
ARAB 391
literary Research Sources \& Methods

## Credit Hours: 3

This course aims to enable the student become skilled in the field of literary research and its methodologies, through accessing fundamental sources and references that are indispensable in academic research, such as: encyclopedias, dictionaries, book directories, states and cities books, biographies of language and grammar scholars, biographies of writers, Quranic sciences book as well as knowing the scientific methodology which set of curricula employed in the study and analysis of sources, and taking into account the evolution in the field of literary curriculum. All this is done so as to consitute an active learing atmosphere, employing various assessment tools (research paper, presentations and tests, etc.)

## ARAB 392

Arabic Syntax
Credit Hours: 3
This course aims to introduce the principles of modern syntax, in particular the generative theory and how it addresses the Arabic language, with a focus on fundamentals of the studies, including: the ranking o words, grammatical statements, sentence structure, matching, parsing, and transformational processes, and whatever would highlight the influence of non-Arabic sentence on the structure of the Arabic sentence, in
addition to other changes. Also, dealing with language samples from different sources, collecting them viage various methods and ways, and focusing on field experimental research. All this is done so as to consitute an active learing atmosphere, employing various assessment tools (research paper, presentations and tests, etc.)

## Prerequisite:

ARAB 319 ORARAB 246

## ARAB 412

Readings 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 course of linguistic studies; texts from the book of Sibawayh, Al-Mubarrea, Iisham Jini, Ibn Al-Shajari, 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 enbles students to compare between Arabic linguistic schools on one side and their Western counterpart on the other, relating traditional inguistic perceptions of the language to what has been to create a liguistic bridge between the traditional and the modern, between the genuine and the contemprary at the evel of texts, perceptions and methods, capitalizing on

## ARAB 419

## Comparative Lin

Credit Hours: 3
This course aims to enable the student to make practical comparisions between Semitic and non-
Semitic languages?, including the aspects of phonetic syntax, morphology and semantics, in order to know the characteristics shared by natural languages, being specific to some languages, or linguistic groups, due to the inheritance relationships, or as a result of social, cultural, geographical or historical factors. The practical part includes each student comparing the Arabic languag anolher language, as th as dep according to learning outcomes.

## Prerequisite <br> ARAB 273

## ARAB 434

Orientalism \& its Criticism
Credit Hours: 3
he objective of this course is to acquaint students with he movement of Orientalism, its scholars and symbols, of many ancient Arabic tents of orientalists (examination 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, Frenc and German orientalism, so that the student may know about the various manifestations of Orientalist thought. criticism of Orientalism based on books by Edward Saiid in particular, so that students may realize the dimension of in particular, so that students may reaitze the dimension of speech, and observe the ways orientalist infiltration; also esearching some orientalist projects, whether English,

German, French or Russian; all this in an active learing mosphere, employing various assessment tools research paper, presentations

## ARAB 464

ocio-Linguistics
redit Hours: 3
This course aims at studying language in a social context. This includes the concept of sociolinguistics and its fields, and studying the outcomes of language-society relationships, such as: language and social interaction;
bilingualism; the distinction between language and diale lingualism; the distinction between language and dialec guistic graduation; linguistic planning; the relationshi linguistic borrowing. The course also addresses the eviewing of existing sociolinguistic differences in the Arab world and the Qatari society, and explaining how to read various types of graphs in Social Linguistics and ways f interpretation. This course reinforces students' ability to apply sociolinguistic research skills in describing and agion. All this is done in an active learing atmosphere, mploying various assessment tools (research paper, presentations and tests, etc.)

Prerequisite:
ARAB 351 OR ARAB 248

## PAB 481

## odern Litera

## How

his course aims to familiarize students with the most mportant modern western criticism schools, and inform hem of how contemporary Arab criticism benefited from those schools, and how it benefited from the heritage of traditional Arabic criticism, where the comparison will e historical and theoretical in the beginning. Then, the tudents will be trained to write a critical article and to complete applied research. The target is for the student and schools of modern criticism and be aby, concepts, he texts in the light of the aforementioned, so that they may have a critical vision in their possession. All this is done in an active learing atmosphere, employing various assessment tools (research paper, presentations and ests, etc.)
Prerequisite
ARAB 331 OR (ARAB 242 AND ARAB 445)

## RAB 48

ARABemporary Gulf Literature
Credit Hours: 3
his course aims to introduce contemporary ilterature
in the Arabian Gulf region and identify the technical characteristics of its poetry and prose. The focus is to highiight 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 earing atmosphere, employing various assessment tools (research paper, presentations and tests, etc.)

## ARAB 483

Credit Hours: 3
and course aims to introduce comparative literature and acquaint the students with its history, schools, and research methodologies. Students use the knowledge
gained in the their Arabic literature classes, and compa gained in the their Arabic literature classes, and compare (English, French or Persian), so they become aware of how genres migrate, how intellectual thesis and aesthetic values get transferred from one culture to another. The course also addresses the issue of mutual influence and conscious and unconscious acculturation between peoples, cultures and arts, all this in an active learning atmosphere, employing various assessment tool (research paper, presentations and tests, etc.)

## ARAB 484

Sociology of Lit
This course aims for students to become experienced in he sociology of Literature, be able to read literature from a social perspective through acquainting them with the heoretical arguments and conceptual terminology and he outcomes of Western studies in this area, relying on the writings of Georg Lukatch, Lucien Goldman, Robe Escarpit, and others. The practical part of the course addresses some literary texts and studies them in light of
knowledge gained during theory-focused lessons. All this is done in an active learing atmosphere, employing various assessment tools (research paper, presentations and ests, etc.)

## ARAB 491

## ARics in contemporary Arab though

## Credit Hours: 3

This course aims to make the student represents the major issues that preoccupied the contemporary Arabic thought since the Renaissance till today, including modernization of he traditional heritage, the cause of women, and the issue of originality and genuineness, the issue of relationships
with the other, acculturation paradox with Western cultures and learning from their experience, and the issue the course is about analyzing selected texts addressing these issues with analysis and studies; all this in an active learning atmosphere, employing various assessment tools (critical readings of intellectual projects [20\%], research paper, presentations and tests, etc.)

## ARAB 492

## Capstone on Arabic Literature

## Credit Hours: 3

This course aims to help the students benefit from their previous experience gained from literature courses (classical and modern literature, and criticism) in order for the students to deepen their expertise in literature in terms of knowledge and methodology on both levels, theoreti
and practical. Also, it will help them have the ability to and practical. Also, it will help them have the ability to
solve problems and move on from receiving knowledge to participation in its production. The course is keen to train students on the methodology of scientific research, and as a graduation project, in which the student adheres to the conditions of academic research. All this is done in an active learning atmosphere, employing various assessment tools (research paper, presentations and tests, etc.)

## ARAB 493

## Capstone on

This course aims to achieve a kind of knowledge-and methodology integration, theoretical and practical, between linguistic studies, and the refinement of language skills (reading, writing, speaking and listening) through
a learning environment that develops the skills of selfa learning environment that develops the skills of self-
learning and focuses on student activities; instilling the learning and focuses on student activities; instilling the values of creativity, dialogue, critical thinking, and problem solving, and reinforcing methods of linguistic expression. of linguistic studies through the completion of a scientific research paper, which adheres to these scientific rules and academic conditions of design, processing, analysis, critique, documentation and indexing. All this is done in an active learning atmosphere, employing various assessment tools (research paper, presentations and tests, etc.) <br> \section*{ARCT 100 <br> \section*{ARCT 100 <br> ndependent Study}

Skill development and training in various topics according to student progress. Topics may include theoretical issues and or exercises and projects performed individually in
which the student develops critical thinking and technical writing in architecture, and research skills.

## ARCT 110

## Credit Hours: 3

Introduction to graphics, skill development in manual architectural drawing, and related principles of architectural graphics; spatial relationships of points, lines, planes, and solids and voids; architectural drafting conventions; orthographic projections; principles of shades, shadow and perspective techniques. A series of exercises is tro- and three-dimensional thinking, including drawings of floor plans, cross sections, graphic diagrams; free hand sketching; model making techniques.

## ARCT 111

Graphic Communication II Credit Hours: 3
ntroduction to procedures in computer-aided design and graphics used in producing 2D plans and sections, architectural design and building construction; series of exercises develops skills in CAD drafting in 2D and 3 D , and image processing; presentation packages are utilized for the production, management, rendering and presentation

## Prerequisite:

ARCT 110

## ARCT 120

## htroduction

 Credit Hours: 3introduction to architecture and allied arts. It involves theory and exercise applications of basic design and visual principles, including architectural form, painting, graphics, sculpture, music, drama, visual culture. Topics and elements of composition. Form: Gestalt perception, visual properties of form, regular and irregular. Space: definition, elements defining space, organization of form \& space. Photography: technical and architectural aspects. Proportion and Scale in architecture and art forms. Fundamentals of architecture: convenience, durability, aesthetics.

## ARCT 210 <br> Perspective, Shade and Shadow

 Credit Hours: 3Introduction to sciagraphy and definition of shade and of volumes "Application of shade and shadow on the

Architectural Drawings". Introduction to perspectography Drawing perspective with two vanishing points; Drawing rspecive using measuring points; Presentation
presented perspective; Interior perspective and Sectional perspective; exercises involve manual and computer applications.

Prerequisite
ARCT 110

## ARCT 211

## Architectural Design Studio

redit Hours: 4
htroduction to project design; simple but complete architectural design projects that place emphasis on programmatic aspects: space, order, context, and form; projects are hypothetical in nature in real sites; concept development; space definition; spatial requirements; djacency requirements; contextual aspects.
rerequisite
ARCT 120 AND ARCT 110

## ARCT 212

## Architectural Design Studio

Credit Hours: 4
Designing simple but complete architectural design projects; involves analytical thinking in design; response aterias: trains, ste design, archinectural programming and structural aspects of buildings-developing a complete a set of graphics for architectural design projects.

## ARCT 211

## RCT 220

Climate and A
redit Hours:
troduction to the various forces that shape the human nvironment with a particular focus on ecological determinants; Integration and internalization of
environmental considerations aimed toward sustainabl environments; Various issues are studied, including derelict land (brown fields), successful use of open spaces, indoor environmental qualities, as well as economic (air sun and water) are examined as they interact with human needs within buildings or building complexes.

## ARCT 22

History and Theory of Architecture I Early and Western ivilizations
redit Hours: 3
hronological development of architecture. The first part includes pre-history, Egyptian, Greek, Byzantine and the 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 heories; starting with Vitruvius "ten Books of Architecture" oo the European Art Nouveau movement (1890-1910) and he early influence of reinforced concrete. The second part the course includes evolution from the Early Chris Baroque periods; the Industrial Revolution to the Mod movements; theoretical foundations of 20th century trends in architecture; Concepts of architectural space, form and vocabulary, as well as major town planning concepts and heories from these periods are discussed and critically analyzed

## Prerequisite

ARCT 120

## ARCT 222

## listory \& Th

 CivilizationsCredit Hours: 3
This course emphasizes chronological development of Islamic civilization and architecture from Umayyad in Syria and Iraq, through the classical and late classical Mesopotamia, Fatimid, Ayyubid, Mamluk, and Ottoman architecture; influences of Islamic architecture on other architectural styles of the same periods and vice versa Islamic art, geometry, calligraphy and variations in cultural attitudes in architectural styles; development and evaluation of contemporary architecture in Muslim communities is introduced.

## Prerequisite

ARCT 120

## ARCT 230

Cind Methods of Building Construction Credit Hours: 3
Introduction to the principles and fundamentals of building construction; the basic concepts of structural 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

## 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; of particles and rigid bodies in two and three dimensions; external forces and concept of stress; stresses and strains; xial loading and axial deformation; Hook's law, stresses ue to temperature; torsion; pure bending; transverse bading and shear stresses in beams and thin walled members; principal stresses and strains.
rerequiste

ARCT 241
Theory of Structures II
Theory of Struc
Credit Hours: 3
Structural engineering; calculation of reactions for statically determinate beams, frames, trusses, and composite structures; force calculation in trusses; shear and momen agrams for beams and frames; deflection calculations; introduction to arches.

## Prerequisite

ARCT 240

## ARCT 242

## Surveying for Architect

Credit Hours: 3
Introduction to surveying; measuring units, significan gures, direct distance measurements with tapes, evels and leveling: longitudinal profiles and cross etions; contouring: area and volume computation eodolite 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
onducting 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 attempt to simulate real life conditions with real visit-able sites; activities and objectives, problem definition

## Prerequisite

ARCT 21
ARCT 311
Architectural Design Studio
Credit Hours:
Continuation of Architectural Design Studio (3) with emphasis on addressing the relationship between concep evaluation; sele generation and alternative solutions; of project design; considerations of behavioral and cultural aspects, user requirements, building function and activities, construction materials and systems, nvironmental 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, by professional organizations, the changing role of the architect, participatory architecture, architectural programming, design briefing, post occupancy evaluation
Prerequisite
ARCT 221

## ARCT 330

 Materials \& M dit Hours: 3 materials and components; fabrication and constructio technologies, methods, and processes of different types of materials. Labs place emphasis on developing construction drawings and details of small buildings. Lab assignments involve the utiization of Cos.
## Prerequisite

ARCT 230 ARCT 230
nvironmental Control Systems I (Acoustics and Lighting)
Credit Hours: 3
Appreciation and understanding of the physica
requirements of buildings, and the acoustics and lighting systems involved, exposure to indicators of smart technologies is provided. The first component of the
course involves exposure to acoustical design for good hearing conditions and noise control; construction details, materials, acoustical properties of space shapes and forms; sound absorption and transmission and sound insulation. The second component introduces electrical systems, iluminations, day-lighting, electric light sourc
and related equipment circuitry; illumination design procedures. Both components involve training on the use of modeling software packages; utilizing computers in lighting analysis and design, and room acoustics evaluation.
Prerequisite
RCT 230 AND PHYS 191

## ARCT 332

 nvironmentalAppreciation and understanding of the physica
requirements of buildings and the sanitary and HVAC systems involved. The first component involves water supply and draining systems, fixtures, and private sewerage systems. The Second component involve he study of Heating, Ventilation and Air Conditioning media, delivery devices, HVAC system characteristics; psychrometric use applications; system and equipmen selection; duct design and layout. Both components address applications in different building scales and types Attention is given to energy and resource conservation techniques and computer applications

## Prerequisite:

ARCT 230 AND PHYS 191

## ARCT 333

## Construction.Drawing and Detailing

Credit Hours: 3
Training on mastering execution documents for large scale projects. Detailed execution drawings of floor plans, sections, and building facades; materials and finishes. en staircases, selected accessonies, and outdo complementary elements. Understanding of how a integrated manner (building architectural elements and components/building systems).

## Prerequisite

ARCT 330
ARCT 340
Structures and Architectural Form I (Concrete

## Structures)

ntroduction to material properties involved in RC, behavio 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 priect for a real life RC structur is conducted coupled with site visits.

Prerequisite
ARCT 241
ARCT 341
tructures and Architectural Form II (Steel and Shell tructures)
introduction to steel structures. The study of steel member behavior, design of tension members, compression members, steel beams, steel trusses, connections, plates, and bracing, analysis of combined RC and SS shell structures. Impact on developing architectural forms for relevant functions is addressed. A research project for a eal life RC structure is conducted coupled with site visits. Prerequisite
Prerequisite
ARCT 241

## ARCT 350

## Arts in Architecture

## Credit Hours: 3

Acquaintance with arts that are involved in architectural works such as: all kinds of: mosaics, stained glass, fresc painting, colored reliefs and other techniques; research styles. Analysis and assessment of color utilization in building facades and building interiors. Series of exercise and project applications on the use of color in architecture.

## Prerequisite <br> ARCT 120

## ARCT 351

## reativity and Innovation

ntroduction to creativity and creative problem solving echniques, innovation strategies, collective thinking. Types of thinking; convergent, and divergent. Creative mental abilities, whole-brain thinking. Group projects
involve applications of brainstorming, synetics, and delphi techniques.
Prerequisite
ARCT 120

## ARCT 400

## Practical Training 1

Credit Hours: 0
6 -week compulsory practical training in the summer. This does not count in the overall program credit hours Students undertake professional training in an architectura office, consulting firm, construction company, or a relevant
government agency. Upon completion, students submit portfolios, technical reports, and presentations on their training and the experience gained.

## ARCT 410

## Architectural Design Studio

redit Hours: 5
Introduction to community design theories and techniques, participatory design; collaborative design processes; community involvement in decision making; understanding 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,

## Prerequisite

ARCT 311

## ARCT 411

## Architectural Design Studio

Credit Hours: 5
Emphasis is placed on sustainable design and project delivery processes. A major project incorporating a environments from the urban scale to the minor detail. Sustainability is the major driver of the project addressing different parameters including lighting, sound, energy conservation strategies, construction systems, structural aspects, and indoor environmental quality.

Prerequisite
ARCT 410

## ARCT 420

Environment-Behavior Studies Credit Hours: 3

Appreciation and understanding of cultural, social, and psychological issues in architectural and urban design and their value toward successful design practices. An overview and analysis of the literature of major scholar human behavior in different building types and urban environments. Intensive discussion of issues that pertain to ways in which information about socio-cultural factors and environment-behaviorknowledge can be applied to design projects.

## Prerequisite

## ARCT 42

## ntroduction. to Urban Design \& Plan

 Credit Hours: 3Introduction to history of urban planning and design; history and evolution of public spaces in different contexts, diversity, integration into buildings and landscape; urban and regional theory and analysis; smart growth; new urbanism; land use planning methods, urban engineering and assessment; sustainable urban development; Urban design issues.

Prerequisite:
ARCT 221

## ARCT 422

## ethods in Arch

Credit Hours: 3
Understanding of basic principles of research techniques. Emphasis is placed on methodological and presentationa aspects of architectural and built environment research. Fundamental aspects of communicating research are introduced, including writing and presenting research findings and concluding statements. Knowledge of differentiating between research, reports, articles and analytical, explanatory, and critical research. Research projects focus on applying research techniques and tools in visual, social and technical terms

Prerequisite
ARCT 320

## ARCT 430

## Contract Documents

## Credit Hours: 3

Continuation of construction drawing and detailing, introduction to laws of contracts; formation principles; of agreement; pre-qualification; contract for construction
and engineering services; specifications; professional
liability; insurance and bonds; legal aspects in constructio 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 parametric estimation, level-of-effort, front- and rear-load 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

有ior 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
day-lighting, artificial lighting, furniture, wall design, color aplication, and human comfort Exercise and small scal projects are integral components of this course.

## ARCT 221

ARCT 451
Computer Applications in Architecture (advanced) Credit Hours: 3
Theories and projects relating to the new and future poossibilities of the architectural design process, explored through the digital medium; concepts, metaphors, echniques 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 ogether with functional and aesthetic concepts that mysical 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 GCC countries; highlights of traditional special focus on relationship to developments in the region and their globa context; impact of trans-national practices; architectural practices in different countries; series of research projects on current undertakings and interviews with principals of egional architects.

## Prequuisite <br> ARCT 221

ARCT 453
rriticism in Architecture Credit Hours: 3
ntroduction 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 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 intention associated with them. Ideological and philosophical trend 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 architectura overnment agency Upon completion, students submit portfolios, technical reports, and presentations on their raining and the experience gained.

## ARCT 510

## Comprehensive Design Studio

redit Hours: 6
he comprehensive nature of architectural design is he driver of the studio; A complex and challenging eal, visitable site, and possibly real clients. The project emphasizes program development; definition of client needs; comprehensive site analysis of real urban context introducing infill complex projects that serve a community
developing criteria for design and intervention strategies generating alternatives; evaluation of alternatives;
 ormal, and technical) involved in trade-off thinking processes.

Prerequisite
-
ARCT 511
解ior Projet Preparation \& Programming Credit Hours: 2
Understanding and training in design management and the practice of pre-design studies. Emphasis is placed upon program development, response to contextual constraints; and deep involvement in articulating a complete program practicality and implementation

Prerequisite
ARCT 411

## ARCT 512

Senior Project
Credit Hours: 4
Amalgamating the different types of knowledge acquired in the previous courses into a comprehensive design project. Continuation of senior project programming, and anstorming the program and pre-design knowledge into of design as an intellectual endeavor, including a consideration of socio-cultural, formal, technical, and contextual aspects.

## Prerequisite

## ARCT 52 <br> RCT 520

andscape Arch
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 and methods of landscape design; study of aesthetic and functional values.

## Prerequisite

## RCT 530

## ARCTHan \& Project Management

Credit Hours: 3
Introduction to the construction industry; local and international, project life cycle and organization, projec management, project time methods, project scope (projec controls), project quality management, project resource and procurement management, project communications management, management and leadership; soft skills and HSE (health, safety, and environment) management, project budgeting and financial management, project claim management, computer applications in construction management.

## Prerequisite

## ARCT 531

## thics \& Professional Practice

Different aspects of professional practice; People and organizations involved in building industry; Professiona services during different phases of building projects are introduced and clarified; Different practical problems of economic decisions. Different types of professional ees during the project implementation are highlighted Specifying professional ethics; clarifying the different professional relationships 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
RCT 550
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 disinclines such as cartography, remote sensing and urban planning. Topics spatial data models, relational databases, and spatial analysis; sources of data, data quality and database management.

## ARCT 551

## ervation \& Conservation

redit Hours: 3
nroduction 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 heories, the different levels of intervention, an overview f the technical conservation matters including tradition uilding techniques, and the relevant compatible the means to enhance and to appropriate conservation methods according to selected cases

## Prerequisite

IOL 100

## To Science

redit Hours: 3
his course offers an introduction to Scientific methods and skills, Macromolecules, Microscopy, Cell Structure and functions, Respiration and photosynthesis.
Body Organization, Organ Systems of human body.
Reproductive biology of living organisms. Plant structure and function. Diversity of life: Microorganisms, Plants and animals. Habitats and adaptations of living organisms. cosystem concept, ecosys, bomes, deteriorations of habitats, pollution, species extinction, waste management and natural reserves

Prerequisite:
ENGL 111 OR ENGL 15
BIOL 101
Biology I
Biology 101 is the first introductory course for biology majors and minors, covering important biological concep ncluding biochemistry, cell structure and function, photosynthesis, cellular respiration, cellular reproduction, enetics, and biotechnology. The laboratory introduces asic laboratory skills such as safety, microscope use, measurement, and reinforces concepts discussed in laboratory per week.

## Prerequisite:

(ENGL 040 OR ENGL C002 OR Total for Integrated Cor 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 Tes 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

## BIOL 102

## Biology

Credit Hours: 3
This course is designed to enable the students achieving good knowledge about the biodiversity and principles of most microscopic (micro- ) organisms like Bacteria and Protozoa passing through Algae and Fungi up to Plants and Animals. The course covers the biological interaction between living organisms including the beneficial relations ke symbiosis up to the most harmful one such as parasitism.

Prerequisite
BIOL 101
BIOL 103

## Freshman Seminar

Credit Hours: 0
The course is given in the first semester of the freshman year. Faculty involved in the program, as well as invit "snapshot" general overview presentations provide opics of relevance to the core curriculum. The course 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 oo interact. In addition, students have the opportunity to develop a broad holistic appreciation of the scope of the rogram and its relevance, before they become involved with other coursework.

## BIOL 110

## uman Bi

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 development and aging. These systems are approached through an understanding of their functioning in the disease conditions resulting from their dysfunction.
rerequisite
(ENGL 040 OR ENGL C002 OR Total for Integrated Core 400) AND (ENGL 041 OR ENGL R002 OR ESL Reading
Skills 100) AND (ENGL 042 OR ENGL W002 OR APL for kills 100) AND (ENGL 042 OR ENGL W002 OR APL for 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 Tes 73 OR Int Eng Lang Test Syst-IELTS 5.5 OR ENGL 4 OR ENGL 111 OR ENGL 250 OR ENGL 201 OR ENGL 202

BIOL 211
Cell Biology
Credit Hours:
Cell theory and cellular types. Molecular basis of cell membranes. Intercellular junctions. Receptors, Cell tructure and functions. Nucleus, Nucleolus. RER. Ribosomes. SER. Golgi Complex Secretory granules Lysosomes. Phagosomes. Pinocytosis. Exocytos
Endocytosis. Peroxisomes. Protein synthesis. Mitochondria Plastids. Cytoskeloton Cellular m keleton Cellular motility

Prerequisite
BIOL 101
BIOL 212
Genetics
Chromosomes and genes, Mendelian inheritance
Mromosomes and genes, Mendelian inheritance Modification of Mendelian inheritance; Gene interaction
nheritance and environment; Sex determination. Sex nkage, Sex-limited and sex-influenced characters. inkage and crossing over. Chromosome mapping Mutation. Cytoplasmic inheritance. Quantitative inheritance. Gene action. Genetic engineering

Prerequisite:
BIOL 101

## BIOL 221

## Basic Ecology

rinciples of ecosystems. Energy flow in ecological systems. Food chain and the food web. Production and cological efficiency. Development and evolution of the imiting factors and tolerance level. Population ecology. Community ecology. Biological interrelationships. Overview of the ecology of Qatar.

Prerequisite:
BIOL 102

## IOL

## Credit Hours: 3

This course gives an overview of the aspects of history and classification of microorganisms (bacteria, fungi algae, and viruses). Functional anatomy of prokaryotic. Microbial growth, nutrition and metabolism, and genetics also covers medical, environmental, and industria microbiology. Culture media and microorganisms; Growth and control of microorganisms.

Prerequisite:
BIOL 101 Concur.

## BIOL 310

## Molecular Cell Biology

Credit Hours: 3
This course focuses on current knowledge of cel structure and function at the cellular, sub-cellular and molecular levels. Topics include: molecular compo microtubules; cytoskeletal components; extracellu matrix; membrane transport; electrical properties of cells; intracellular compartments and protein sorting; intracellula 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 Western bloting immunoanalysis in viro transta ransfection, subcellular fractionation, and microscopy techniques.

Prerequisite
BIOL 241

## BIOL 311

## Molecular Biolog

This course helps students to understand Nucliec Acid as the genetic material, how was DNA proven to be the Genetic Material, Chemical and Physical Propertie of Nucliec 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

Prerequisite
BIOL 241
BIOL 312 Animal Histology

Credit Hours: 3
Types of tissue, epithelial, connective, muscular and and systems, circulatory respiratory urinary immune and productive systems. Digestive system and its glands. Nervous system and sense organs.

## Prerequisite

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## 1

## Credit Hours:

nvironmental Biology deals with interaction of biotic and physical components of the environment. Howeve as defined by specialists, the field of study lies between cology and environmental science. Since the former號 the impact of human activities on the environment . whil nal Bology creates the link between
evitable human presences and influence is tak to consideration. The approach is therefore more restorational than the old-fashioned conservationa outlook.

## Prequisit

IOL 32

## Desert Biology

World desert formations. Desert environments. Limiting hysical factors. Desert ecosystems. Structure and unction. Diversity of desert flora, fauna, and soil organisms. Plant morphological and physiological daptations. Animal morphological, physiological an behavioral adaptations. Living strategies of desert anisms. The problem of desertification and its control. verview of the desert wild life in Qatar

Prerequisite:
BIOL 221

## BIOL 344

## General Parasitolog

Credit Hours: 3
This course covers the scope of parasitology, particularly he basic concepts related to hosts, specificity, parasite opulations and their interactions, infections and diseases arasites and host-parasite relationship. In addition, Zoonose Biology, Pathogenecity and epideminology of epresentatives of animal parasites and their relationships with man, animals and plants are treated.. Finally, the
general principles of control methods of parasitic disease
and their limitations are explained.
Prerequisite
BIOL 102

## BIOL 34

## Health, Safety

Credit Hours: 3
This course considers the key aspects of a health and safety management system; risk assessment and wonitoring, and hement system and how they or individua safety of that organization. The course provides the basic 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, acciden

## BIOL 346

Environmenta
This course covers topics concerned with both the natural and built environment that affect human health, taking in consideration the impact of physical, chemica and biological factors on human health. Emphasis on ecosystem status or function will be covered.

## BIOL 351

## lant Anatomy \& Physiology

his 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

Prerequisite:
BIOL 102 AND CHEM 351

## BIOL 362

## Animal Anatomy \& Physiology

Credit Hours: 3
This course provides students with the fundamenta knowledge of functional anatomy and physiology. Focus comprehensive way to cover the physiology of organs and comprehensive way to cover the physiology of organs and and biochemical principles of organ function. The aboratory sessions provide experiences in physiological esting and data analyis skils that apply to the concepts and topics covered in lectures.

## BIOL 399

## Internship Credit Hours:

Should be completed during the senior year with departmental approval. Typically they are of 6 week duration and involve on-site training and work with a stakeholder.

## BIOL 412

## Genetic Engineering \& DNA Technology

 Credit Hours: 3This course focuses on how biotechnology is revolutionizing medicine, agriculture and biomedical, pharmaceutical, environmental and food industries. Specific topics such as recombinant DNA technology, plant genetic engineering, gene therapy, forensic DNA analysis, patents and technology transfer related to the human genome project will be discussed. Projects include DNA isolation and purification, gel electrophoresis, and prokaryotic and eukaryotic cell transfection

## Prerequisite

BIOL 311

## BIOL 421

## Ecophysiology

The environment of living organisms. Extreme Environments. Morphological, structural, physiological, and biochemical responses to temperature, water, light, drought, salinity. Mechanisms of adaptation and resistance.
quisite:
BIOL 362 Concur. AND BIOL 351 Concur.

## BIOL 422

Environmental Management \& Conservation

## Credit Hours: 3

Concepts of conservation of natural resources. Case studies: Endangered species, Fragile communities, ecosystems, marine and terrestrial habitats. Agricultura deterioration. Reclamation, restoration, management and practical conservation. Environmental monitoring. Policies and economics of natural resources. Environmental legislation. Conservation and management in Qatar.

Prerequisite:

## IOL 433

## Monitoring and Toxicology

It studies environmental monitoring and assessment with emphasis on the Gulf region; principles in the design of monitoring systems; use of monitoring data in assessing the consequences of natural resource management and pollution risks; monitoring systems designed to estimate exposure both at the individual and population levels; development of monitoring systems for management of riculture, fisheries and

## Prerequisite

BIOL310

## BIOL 442

Biotechnology
The concept of biotechnology, Recent advances and trends in biotechnology. The principles of genetic engineering and strain selection and maintenance. Separation of bio-production. Plant \& Animal biotechnology. Animal cell cultivation systems. Fermentation technology using microorganisms. Biotechnology processing of pharmaceuticals, chemicals and biological factors. The ethical aspects of biotechnology and society. Animal, plat, meck alotial activities in Qatar.

## Prerequisite

BIOL 31

## BIOL 443

## iotechnology \& Bioremediation

redit 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. soils whereas morb and concentrate heavy metals from degrade organic toxins and remove excess nutrients rom soils, substrates and water. The processes includ extraction, absorption, concentration, and degradation contaminants. Examples cross- reference courses use of immobilized bacteria in trickling filter design for sewage gas purification

## Prerequisite

## BIOL 44

## mmunology

Basic concepts. Innate immunity: determinants and mechanisms. Acquired immunity, types, antigens and antibodies. Immune response. Immunoglobulins, Monoclonal antibodies. Anatomical, cellular and genetic basis of immunity. Complement proteins and their role in mmunity. Antigen, antibody reactions. Immunopathology. mmunodefeciency, hypersensitivity and auto immunity. istocompatability and organ transpantation.
Immunogenetics.

## rerequisite:

BIOL 362 Concur.

## BIOL 451

Cell \& Tissue Cultur
Credit Hours:
ell and tissue culture are major tools for biotechnology aplications, testing and improvement. These are an organisms(GMOs) which have received much national and international attention in recent years, interfacing with society in ways that few would have imagined a decade ago. As the scientific capabilities to engineer plants, animals, insects, and icroorganisms for applications that could pose great benefits to society grow rapidly, so do he number of potential challenges and concerns. Many osues associated with cell and tissue culture pervade more commonalities than differences. In light of this, this course concentrates on the different uses of tissue culture both in animal and plant studies; the establishment and equirements of both plant tissue cuiture lab and anima issue culture lab. The basic concepts of totipotency, organized growth, growth regulators types a

Prerequisite
(BIOL 351 Concur. OR BIOL 310 AND BIOL 362 Concur.

## IOL 45

## olecular Analytical Technique

Credit Hours: 3
t uses a combination of lecture and hands-on laboratory xercises to acquaint students with advanced laborato kills. Students are taught the essentials of how to writing intensive and implements Excel spreadsheets. opics include multitasking, hands-on experience with analytical equipment, strategies that can be used in experimental design, troubleshooting experiments and utcomes

Prerequisit
BIOL310

## BIOL 493

Special Topics
ourse content is not definite and subjected to change each time the course is offered, according to area of terest of faculty and students.

## BIOL 496

## Research Projec

ts 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 hat documents their work.

## BIOL 497

Research Project
Credit Hours: 3

## BIOM 21

## Human Anatomy

Credit Anours: 3
Body organization, anatomical position and terminology, , espiratory 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

Different types of microscope, the cell, epithelial tissue, connective tissue proper, cartilage, bone, muscula iissue, blood, vascular system, lymphatic system, lymphatic tissue, digestive system, respiratory system urinary system, female genital system, male genital endocrine system.
rerequisite:
BIOL 101

## BIOM 213

## Human Embryol

Credit Hours:
ametogenesis, ovulation, fertilization, implantation, period, fetal period, fetal membranes, disc, embryonic ongenital malformations. Assisted reproductive echniques, development of urogenital, cardiovascular and gastrointestinal systems.
Prerequisite:
BIOM 21

## BIOM 215

Human Physiolog
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 discussed in terms of the integration of all body systems and homeostasis. In Human Physiology BIOM-215 you will study cell physiology, cardiovascular, respiratory, rena and, gastrointestinal and related systems to accomplish homeostasis

## Prerequistie:

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BIOM 217
Human Genetics
redit Hours: 3
Principles of medical genetics and their application pathology. Chromosome structure and function. Mendelian pattern of inheritance. Mitochondrial diseases and multifactorial inheritance and its role in human variation and human diseases. Cytogenetic isorders. Gene mapping and molecular structure of he gene. Hemoglobinopathies. Biochemical genetics. munogenetics. Cancer genetics. Genetic counseling. romosome preparation from

Prerequisite:
BIOL 101

## IOM 243

## roduction to Pathology

redit Hours: 2
 of pathological processes (cell injury, necrosis, wound
healing, acute and chronic inflammations). Basic clinical mmunology by looking at clinical assessment of the patient presenting with an immunological complain.

## BIOM 301

 Credit Hours: 3This course is designed as a team taught course to introduce students with clinical laboratory regulations, including quality control, laboratory safety, basic safe use of equipment, and quality assurance. Basic knowledge of mivation, commitol, and nanders, manag eory, organs. Communication skills, education in and training: decision making; groups and teams. Total quality management, laboratory accreditation and audit; efficiency and effectiveness. Health, safety and welfare of the workforce; work safety legislation, hazards of the work place, risk assessment, safety policies, safety audits and inspection.

## BIOM 322

## Medical Microbiology

Credit Hours: 4
Relationships between the hosts' and pathogens epidemiological aspects, and mode of transmission of microbial diseases. Zoonotic diseases. Microbial pathogenicity and mechanism of virulence. The role of pathogenic bacteria and viruses in causing disease

## Prerequisite

BIOL 24

## BIOM 323

Medical Parasitology
Credit Hours: 3
Medical parasitology. Biomedical sciences and ropical medicine. Nomenclature and taxonomy of animal parasites. Position of parasitism amongst othe
biological associations. General structure and ultra structure. Classification, biology, life cycle, epidemiology, pathogenicity and diagnosis of selected medically mportant examples of the following groups: Protozoa, platy- helminthes, acanthocephalan and zoonosis. Contro f parasitic diseases

Prerequisite
BIOL 241

## BIOM 324

Medical Virology
his course is a con of all the
families of human viruses. Course coverage will focus almost entirely on viruses that cause serious infections of virus infection and virus-cell interactions, at cellula and molecular level. Classes include lectures, as well as reading and discussion of primary papers cover in topics such as virus entry, viral DNA or RNA replication, transcription, translation, virus assembly and release, persistence, latency, cell lysis and interference. Practical assessments that include classical virological techniques, uch as basic cell culture, serology, and modern molecula tests such as RT-PCR and multiplex PCR.

Prerequisite
BIOM 243

## BIOM 346

Clinical Chemistry
redit Hours: 4
his is a lecture and laboratory course covering most alysis and clinical utility. Genial principles of chemica nalysis and clinical utility are reviewed. Analyses according to function or organ system. Major groupinped nclude carbohydrates, proteins, renal testing, liver/cardiac function, enzymology, and electrolytes/acid-base balance. The principles of testing methods and the physiologic and biochemical changes that occur in disease states are overed. General laboratory principles, laboratory safety, ry quality assessment will also be applied to the course.

CHEM 351
BIOM 401
Special Topics
redit Hours:
his is a professor guided course designed for special studies students who were pre 2008 graduates of the 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:
his professor guided course is designed to introduce udents to the principles of critical thinking and to provide critical thinking strategies to given specified content areas within biomedical science. It incorporates self-directed earning and teamwork in an atmosphere of active

## arning

## BIOM 41

Forensic Science
The course includes the legal importance of forensia medicine and its contribution to justice. It includes penology 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, bums, and the concept of the forensic medicin prognosis. In adaition, asphyxiology receives a broad th juridical causes of death. Sexology and legal obstetrics are highlighted due to their frequency in the practice of orensic medicine.

## BIOM 418

## Pharmacology \& Toxicology

## Credit Hours:

his course, which is a continuation of clinical chemistry, designed to introduce the students to more advanced drug monitoring TDM in clinical chemistry medicine and he most popular drugs tested now a days, toxicology and poisoning with specific agents. It will also covers porphyrins and disease, clinical chemistry of the geriatric patient, clinical chemistry of the pediatric patient, clinical utrition including vitamins and minerals. Instrumentation n clinical chemistry laboratory will be also covered.

## Preqequisite

BIOM21

## BIOM 422

## Diagnostic Microbiology

Credit Hours: 2
he different methods and techniques applied for the diagnosis of pathogenic microorganisms isolated from normal and transient flora of the human body. Methods collection and handling of different pathological specimens. Advanced procedures and identification techniques used oo isolate and identify bacteria. Morphological, biological, and biochemical characteristics of bacteria commonly solated from clinical specimens.

Prerequisite:
BIOM 322
BIOM 426
Clinical Immunolog Credit Hours: 3
Molecular diversity and control of immune system and
its association with disease states. Modem application of antibodies and cytokines in diagnosis and treatment of sease. he in mi syto and rello emphasis on immunological techniques.

Prerequisite:
BIOM 243 Concur.

## BIOM 444

## Histopathology Credit Hours:

redit Hours: 2
ntroduction to general pathology. Pathological lesions and diseases in various tissues and organs. The theoretical and practical aspects of techniques used in a histopathology laboratory. Fixation, processing, blocking decalcification of routine and special staining methods. Cardiovascular, respiratory, gastrointestinal, hepatobiliary, urinary, male and female reproductive, endocrine mphoreticular, musculoskeletal and central nervous systems.

Perequisite

## BIOM 446

Urine Analysis and Body Fluids
Credit Hours: 2
This course emphasizes the collection and analysis of rine, fecal specimens, vaginal secretions, and other body pleural, pericardial, and peritoneal fluids.

## Prerequisite

BIOM 215

## OM 45

ematology 8
Hematology \& Hemostasis
Formation and maturation. Blood cells differential and eir functions. General principles and iron metabolism. Types of anemia. Methods of microscopic analysis haemoglobinopathies and methods of detection.
emorrhage, blood groups and blood transfusion. Leukemia and its classification. Clotting mechanisms and disorders. Detection of coagulation disorders.

Prerequisite:
Prerequisite:
BIOM 243 Concur.

## BIOM 452

mmunohematology \& Blood Bank
Credit Hours: 3
This course is designed to provide the Bio-medica
tudents with a concise theoretical account about mmunohematology and transfusion practices and a 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 46

## Endocrinology

Introduction to hormones and chemical signals. Receptors. Basic principle of endocrine physiology. Synthesis, Hormonal control of metabolism. Hypothalamic and pituitary hormones. Thyroid gland and its hormones Adrenal glands and calcium homoeostasis. Hormonal assays. Hormonal control of reproduction in males and emales.
Prerequisite
BIOM 215

## BIOM 491

Clinical Practice in Chemistry
Credit Hours: 3
Supervised clinical practice in the clinical chemistry aboratory, 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 492

## Clinical Practice in Hematology

Credit Hours: 3
Supervised clinical practice in the clinical hematology aboratory, providing experience in procedures and progression of disease, operation of instrumentation, following quality assurance practices, and using appropriate safety measures.

## BIOM 45

## BIOM 493

al Practice in Immunology

## edit Hours:

upervised clinical practice in the clinica
mmunohematology laboratory, providing experience in
procedures and methods of evaluating and monitoring
me presence and progression of disease, operation of using appropriate safety measures.

## Prerequisite

BIOM 426

## BIOM 494

## linical Practice in Microbiology

redit Hours: 3
Supervised clinical practice in the clinical microbiology aboratoryproviding experience in procedures and method disease assurance practices, and using appropriate safety measures.

## BIOM 422

BIOM 495

## inical Practice in Immunohematology

## redit Hours: 3

Supervised clinical practice in the clinica
mmunohematology laboratory, providing experience in procedures and methods of evaluating and monitoring the presence and progression of disease, operation f instrumentation, observation of quality assurance practices, and use of appropriate safety measures.

Prerequisite:
BIOM 452

## BIOM 496

## rofessional D

his is a capstone course designed to enhance
problem-solving skills by integrating multiple biomedica
boratory disciplines utilizing literature reviews to asses
ynthesis of knowledge acquired in previous courses
Competencies to be reinforced include leadership, critical hinking, communication, analytical skills, ethical issues, rofessionalism, and the skills to work in a healthcare setting

## IOM 49

## Research Projec

he research project (RP) is an important component of your academic experience within the Biomedical Sciences affords you the opportunity to demonstrate knowledge and skills gained in various courses and to apply research methodology and publication to become a competent biomedical scientist. This degree requirement will assist you to better comprehend scientific research in your work experience you will progress from a guided learning experience to a self-directed experience. The requirem ssociated with this research project and its timelines wer 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 tudy in collaboration and under the guidance of a faculty member. The product aspect is two-fold: a research paper and a presentation.

## HEM 101

## General Chemistry

Chemistry and Measurement and significant figures. Atoms, molecules and ions. Formulas and names. Stoichiometry and chemical calculations. Chemical eactions. Thermochemistry and enthalpy changes. Chemical bonding and molecular geometry.

Prerequisite
( ENGL 040 OR ENGL C002 OR Total for Integrated Core 400) AND (ENGL 041 OR ENGL R002 OR ESL Reading Skills 100) AND (ENGL 042 OR ENGL W002 OR APL for Writing Workshop 225) ) OR (Total for Integrated Core 00 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 Internet-based Test 061 OR TOEFL Computer-based Te 004 OR ENGL 111 OR ENGL 250 OR ENGL 201 OR ENGL 202

## CHEM 102

General Chemistry II
Credit Hours: 3
Gases and States of Matter. Properties of Solutions Rates of Reaction and Chemical Equilibrium. Acids Complex Equilibria. Thermodynamics and Equilibrium. Electrochemistry.

## CHEM 103

## xperimental General Chemistry I

redit Hours: 1
Safety in the Lab. Measurement of mass, volume and density. Identification of an unknown compound. Qualitative analysis of anions. Empirical formula of a compound. Thermal decomposition of hydrates. oichiometric determination. Acid-base and redo itrations. Enthalpy of reactions.

Prerequisite:
Prerequisite:

## CHEM 104

Experimental G
Determination of Molar Mass. Softening of hard water. Rate of a Chemical reaction. Determination of Chemical qution and determination of K o a weak acid Solubility product constant. Calorimetry and Electrochemistry.

Prerequisite:
CHEM 103 AND CHEM 102 Concur.

## CHEM 209

## ,

## redit Hours: 3

CHEM 209 is designed for students pursing bachelor's degrees in biomedical, Nutrition, chemical engineering 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, acids and amines will be covered in this one semester course.

Prerequisite:
CHEM 101 AND CHEM 103

## CHEM 21

Organic Chemistry
redit Hours:
HEM 211 is the first course in the two-term ndergraduate organic chemistry lecture sequence hat includes CHEM 212 which is designed for students Aliphatic hydrocarbons will be presented properties ndustrial importance will be discussed. The concept of stereoisomerism will be introduced in the context of organic chemistry (i.e., tetrahedral carbon). Aromatic
hydrocarbons \& Alkyl Halides, will be introduced and their eactions will be covered in depth

Prerequisite:
CHEM 101 AND CHEM 103

## HEM 212

## Organic Chemistry

Credit Hours: 3
Stereochemistry and chiral molecules - lonic reaction - Nucleophilic substitution and elimination reactions of alkyl halides - radical reactions - conjugated unsaturated - synthesis and reactions of dicarbonyl compounds - phenols and aryl halides (nucleophilic aromatic substitution)- carbohydrates.

## Prerequisite

CHEM 211

## CHEM 213

## Experimental

CHEM 212. It intro vital supplement to the lecture course, analysis of pertinent organic reaction types. Students receive hands-on experience in the experimental methods of organic chemistry. Many organic chemical reactions are examined in the context of their reaction mechanisms. This in the use of organi ab techniques and report writing

Prerequisite:
CHEM 212 Concur.

## CHEM 221

## norganic Chemistry

redith
This is the first inorganic chemistry course and covers he following basic topics. The structure of the atom. The 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 provid chemistry.

## Prerequisite

CHEM 101
CHEM 222

Experimental Inorganic Chemistry
Credit Hours: 1
Synthesis and characterization of complex compounds

of complex compounds.
Prerequisite:
CHEM 221 Concu

## CHEM 231

## Analytical Chemistry

Credit Hours: 2
Introduction to analytical chemistry - statistical evaluatio f analytical data - aqueous and buffered solution chemical equilibrium - titration methods of analysis
(neutralization reactions, precipitation titrations, redox and compleximetric titrations)- gravimetric methods of analysis spectrophotometry.

## Prerequisite:

CHEM 101

## CHEM 234

Experimental

## Credit Hours:

Gravimetric analysis - Neutralization reactions -
recipitation reactions - Oxidation and reduction reactions - Complexometry.

Prerequisite:
CHEM 103 AND CHEM 231 Concur

## CHEM 239

## Physical Chem

## redit Hours: 4

This course provides pre-pharmacy students with an
overview of physical chemistry and its application in the life
 examples from life science and molecular biology

Prerequisite
CHEM 101 AND CHEM 103
CHEM 241
hysical Chem
redit Hours: 3
he kinetic model of gases: molecular interaction, the Vander Waals equation. Chemical thermodynamics: The and free energy, Free energy, chemical potential, effect of temperature and pressure on free energy changes, Tourton's and Richard's rules - Free energy changes
and equilibrium constant, effect of temperature on the equilibrium constant. Absolute entropy- the third law. phase transition, the physical liquid surface- surface ension, curved surface, and capillary action.

## Prerequisite

CHEM 102 AND CHEM 242 Concu

## CHEM 242

## Experimental Physical Chemistry

Introduction and laboratory safety experiment designDetermination of the gas constant, R-the Faraday Constant and Avogadro's number -Molecular radius from viscosity measurements - Molecular weight of a polymer. Molecular weight (Rast method and/or Beckmann's method) - Electrochemical cells and thermodynamic - Heat of solution - Heat of vaporization - Standard enthalpy change - Surface tension - Heat of adsorption curves - Two components - three components systems:

## Perequisite

CHEM 102 AND CHEM 241 Concur. AND CHEM 104

## CHEM 275

Principles of Environmental Chemistry Credit Hours: 3
his course provides an understanding of the source, ate, and reactivity of compounds in natural and polluted implications of energy utilization, and on the chemistry of the atmosphere, hydrosphere, and lithosphere in the egion.

## Prerequisite

## HEM 101 AND CHEM 103

CHEM 311
Organic Chemistry III
Credit Hours: 3
Fused polynuclear aromatic hydrocarbons - nonbenzenoid aromatic hydrocarbons - dyes (nomenclature, classification and examples) - heterocyclic compounds (five and six membered ring compounds) - other heterocyclic compounds (e.g. indole, imidazole, coumarin (sulphonamides, some antibiotics and antimalarial compounds).

Prerequisite
CHEM 211

Organic Chemistry IV
Credit Hours: 2
sectroscopic techniques (infrared, ultraviolet, nuclear agnetic resonance and mass spectrometry) in entification of organic compounds (problems and

Experimental: Preparation of some organic compounds multi-steps preparations) - identification of organic compounds using different spectroscopic methods.

## Prerequisite

## CHEM 315

## nvironmental Chemistry

Credit Hours: 2
This course introduces students to major topics of current interest in environmental chemistry. Topics covered includ the origins of chemical contaminants in the environment, tmospheric chemistry, the greenhouse effect, the ozon pollution. A survey of major analytical techniques and me persistent chemicals of environmental concern is also included.

Prerequisite:
CHEM 221 AND CHEM 21

## CHEM 321

## Chemistr

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 systematically study the chemistry of main group elements systematically study
and demonstrate the
diversity, intricacy, and fascinating nature of inorganic remistry, ine final and fascinating nature of inorgan chemistry of d-block metals, their electronic structure and complexes and their properties.

## Prerequisite <br> - 22

## CHEM 322

redit Hours: 3
This course focuses on transition metal compounds and heir reaction mechanisms. The topics covered will include er and outer speactions, rates of ligand substitution elated reactions, electron transitions in metal-metal bonded systems, organometallic compounds containing
different types of ligands; ligand substitution reactions, edox reactions, bond metathesis, insertion and eliminatio eactions; homogeneous and heterogeneous. It will coordination chemistry, material properties, electronic spectra and properties of some elements.

Prerequisite:
CHEM 221

## CHEM 331

## Analytical Chemis

## Credit Hours: 3

ntroduction to modern methods of instrumental analysis: separation techniques (gas, and high liquid chromatography); spectroscopic methods (atomic and
molecular absorption spectroscopy); and electrochemical methods including polarography, potentiometry, and onductometry, Experimental:
Practical application of instruments in analysis includin otentiometry, polarography, conductometry and
spectrophotometry and gas and liquid chromatography.

## Prerequisite

CHEM 231 AND CHEM 234

## CHEM 341

## Physical Chemistry

Credit Hours: 3
hemical kinetics; reaction orders, first, second and third orders; reactions approaching equilibrium; paralle the Michaels- Menten mechanism, the LindemannHinshelwood mechanism; theories of the rate constant (collision theory and activated complex theory) -
equilibrium electrochemistry, ion activities, electrochemica cells - dynamic electrochemistry,-- processes at solid surfaces - surface growth - surface composition - surfac

Prerequisite:
CHEM 241 OR CHEM 286

## CHEM 342

## hysical Chemistry III

Credit Hours: 3
This course will introduce students to computational chemistry and its basis in quantum chemistry.Quantum and its resulting wave functions for electrons in atoms and molecules, are presented in way useful in computational chemistry, introducing wave functions and basis sets from semi-empirical, ab initio, Hartree-Fock and SCF methods. Activities such as building molecules, calculating their
energies, minimizing the structures, as well as calculating their vibrational frequencies will be conducted during th course. The following software will be used to achieve odeling Also different kinds and levels of calculation as HF, RHF, AM1, PM3 and others will be demonstrated, applying different basis sets.

## Prerequisite: <br> CHEM 241

## CHEM 351

asic Biochemistry
mino 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 gene expression

Prerequisite:
CHEM 212 OR CHEM 209

## CHEM 352

Experimental
redit Hours: 1
Quantitative determination of D-glucose by means of anthrone or glucose oxidase, Quantitative determinatio of amino acids by ninhydrin, Quantitative determination of proteins by Folin-lowry method, Bio-Rad assay of proteins, zyme assays and factors affecting enzyme activity, value of simple lipids, effect of lipase on simple lipids, chain reaction (PCR)

Prerequisite:
CHEM 351 Concur

## CHEM 375

## ndustrial Chemistry

Credit Hours: 3
htroduction to industrial chemistry, resources of chemical materials, research and development, worldwide chemical lustrimal cements.

## Prerequisite:

CHEM 241 Concur

## CHEM 391

## Advanced Bioc

redit Hours
urse a special focus will be set on common biochemistry principles. How the genetic information is proteins and enzymes, Gene regulation, thermodynamic 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 asic biochemistry laboratory with individual research tramework necessary to work in biotechnology field

## Prerequisite <br> CHEM 351

## CHEM 442

## Experimental Physical Chemistry II

it Hours:
troduction and safety. Chemical kinetics: kinetics of catalytic decomposition of H 2 O 2 ( the rate constant, second order reaction (Conductometric asis of ester Kinetics of reduction of methylene blue by ascorbic acid Spectrophotometric method). Electrode reactions (cyclic voltammetry)
Surface Chemistry: adsorption isotherms and fluorimetry.
Prerequisite:
CHEM 242 AND CHEM 341 Concur

## CHEM 461

## Special Topics

Advanced level of study in selected areas of various disciplines. Topics such as: photochemistry, photophysics corrosion, laser chemistry, bioinorganic chemistry olymers, organometallic, and natural products

## CHEM 462

Research Projec
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 boundaries across other he faculty members to perform chemical research in a professional environment. The students are required to conduct literature review and to carry out an experimenta work, before writing a mini thesis and making an oral presentation.

## HME 20

troduction to Chemical Engineering
redit Hours: 3
The basic principles and techniques used for calculation o material balances in chemical engineering processes are troduced. The material covered involves fundamentals of eactive systems, formulation and solution of increasingly omplex chemical engineering process problems and amiliarization with physical properties and behavior of ideal and real gases.
rerequisite:
MATH 101 AND CHEM 101 AND PHYS 191 Concur

## CHME 202

## ntroduction to

Credit Hours:
Vapor-liquid equilibrium calculations for systems containing one condensable component and for idea multi-component solutions, including bubble and dew thermodynamics, thermodynamic data, energy balanc equation for closed and open systems, simultaneous material and energy balances. Balances on non-reactive systems that involve heating and cooling, compression and decompression, phase changes, mixing of liquids, and dissolving of gasses and solids in liquids. Balances on reactive systems using either the heat of reaction method or the heat of formation method

Prerequisite:
CHME 201

## CHME 212

Chemical Engineering Thermodynamics Credit Hours: 3
Fundamental concepts. Thermodynamic properties of fluids. Equations of state. Diagrams, tables, and Weralized correlations of thermodynamic properties. Second law of thermodynamics. Power and refrigeration cycles.

## Prerequisite: <br> CHME 201

## CHME 213

Fluid Mechanics
Fluid statistics. Viscosity of fluid and type of flow. Mass, nergy, and momentum balance. Bernoulli's equation. Pressure and Flow measurements. Potential flow. Fluid riction in pipes and fittings. One - dimensional gas flow.

Pump and compressor design. Flow in packed beds and Ergun equation. Fluidization. Introduction to gas-liquid fow. Surface forces.

## Prerequisite

CHME 201 AND MATH 102

## CHME 311

Heat Transfer
Credit Hours: 3
Conduction, convection and radiation. Insulation and fins. Thermal boundary layer and turbulence. Emp geometries. Boiling and condensation heat transfer. Hea exchanger design.

Prerequisite
CHME 202 AND GENG 300 Concur. AND CHME 213

## CHME 312

## 位

## Credit Hours: 3

Non-ideal behavior in systems of variable composition Calculation of thermodynamic energy functions. Residual properties. Partial properties. Thermodynamic property le and diagrams. Fugacity and fugacity coe ctivity Heat effects of mixing. Excess properties and activity equilibria. Introduction to Vapor-liquid equinibria. Phase equilibria at low- to moderate-pressures. Dew point, bubble Equilibrium constants and dependence on temperature. Calculation of equilibrium conversions for single and mulis reactions

Prerequisite
CHME 212 OR CHEM 209 Concur. AND CHEM 34 Concur.

## CHME 313

Mass Transfer I
Molecular mass transfer. Estimation \& measurement of diffusion coefficient. Analogies among mass, heat, \& momentum transfer. Turbulence effects. Correlations for mass-transfer coefficients in laminar \& turbulent flow. Interface mass transfer, Continuous two-phase transport. Design of absorption and stripping columns. Adsorption. Drying.

Prerequisite
CHME 311 Concur. AND CHME 312 Concur.

## CHME 314

Chemical Reaction Engineering

## Credit Hours: 3

The rate of reaction, interpretation of kinetic data, batch reactors, continuous flow reactors, design equations for ate constant, the reaction order, elementary, non-
elementary, reversible, irreversible and multiple reactions, actor sizing, volume change with reactions, isotherma and non-isothermal reactor design, pressure drop in reactors, unsteady state operation of reactors.

## Prerequisite

CHME 202 AND CHME 312

## CHME 315

Mass Transfer I
Distillation, liquid-liquid extraction and leaching. Humidification. Crystallization.

## Prerequisite:

CHME 313

## HME 324

Chemical Engin
Experiments in fluid flow and heat transfer: Frictiona pressure losses in pipes \& fittings, Pump performance, Convection, and Double pipe and Shell \& tube heat exchangers.

NGL 203 AND CHME 311 Concur. AND CHME 213

## HME 32

## hemical Engineering Lab II

Credit Hours: 1
Experiments in mass transfer and separation processes: drying, humidification, gas absorption, molecular diffusion distillation. One experiment

HME 324 AND CHME 313

## CHME 361

etroleum and Gas Technologies
Credit Hours: 3
Refinery feedstock and crude oil properties, refinery products, refining processes and crude distillation, 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 nvironmental impact assessment of such technologies.

## Preqequisite

## CHEM 275

## HME 399

Practical Training
Credit Hours: 3
Supervised eight-week training period at an approved engineering facility (consulting, contracting, industrial, experience at the workplace Evaluation is based on: Daily performance supervisor's input student's report and a short presentation.

## CHME 413

## Process Modeling \& Simulatio

## Credit Hours: 3

Mathematical modeling of chemical processes. Principles formulation of fundamental and empirical models. spreadsheets and commercial simulators.

Prerequisite:
CHME 314 AND MATH 217 AND CHME 315

## CHME 415

## omputer Methods in Chemical Engineering

 he aim of the cohe aim of the course is to introduce simulation tool for analysis, planning and management of chemical apply advanced chemical engineering software packages (e.g., Aspen Plus/Hysys, Matlab, HTRI) to conduct design and simulation of chemical processes.
Prerequisite:
CHME 315 Concur.

## CHME 421

Plant Design I
First design course in a series of two. Introduction to process design via industrial projects. Process route election, based on relevant and realistic constraints. Development of process flow diagrams (PFDs), utilizing P\&ids.

CHME 315
CHME 422

## Plant Design II

Credit Hours: 3
econd design course, focused on optimization of idustrial processes using advanced integration design manufacturing process and economic \& profitability analysis. Using computer aided software (e.g. excel and ASPEN simulation).
Prerequisite:
CHME 421 AND GENG 360

## CHME 423

## rocess Control

Introduction to practical and theoretical aspects of proces 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 ystems, Stabers, frequacy analysis Bode stability, lascade 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 digita control equipment.

## Prerequisite

CHME 423 AND CHME 314

## CHME 431

## Petroleum Re

Origin of crude ${ }^{\text {a }}$ introduction to exploration, drilling and production, refinery feedstock, refinery products, crude oil distillation, fluid catalytic cracking, hydrotreating, catalytic reforming, isomerization, polymerization, product blending ght end unit and other supporting processes, laboratory xperiments in petroleum characterization.

Prerequisite:
CHEM 211 Concur. OR CHEM 209 Concur.

## CHME 433

etrochemical Technology
Credit Hours: 3

Petrochemical industry. Raw materials. Aliphatic and aromatic petrochemicals. Petrochemicals from methane etrochemicals from normal paraffins. Production of roceses. Synthetic rubber. Fibers and proteins:

## rerequisite:

CHEM 211 Concur. OR CHEM 209 Concur.

## CHME 435

## olymer Engineeri

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 lasticity, polymer processing and rheology mechanical properties; and some special topics.

## Prerequisite

OR CHEM 209 Concur) AND (CHEM 211 Concur.

## HME 445

Desalination
ndustrial desalination processes such as multistage lash, 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
Characterization of natural gas. Properties of reservoir uids. Qualitative phase behavior. Vapor-liquid equilibrium economics. Industrial utilization Laboratory experiments in gas characterization

## Prerequisite

CHME 312

## CHME 454

## Natural Gas Trea Credit Hours: 3

Credit Hours: 3
The course presents an overview of the natural gas on gas plant operations. Physical, chemical and
thermodynamic properties of natural gas. Phase behavio
of natural gas. Water hydrocarbon systems. Pipelines.

Major processes for gas compression, dehydration, acid gas removal and sulfur recovery. Cryogenic Processes. portation. Field trips to NG plants are also involved.

## rerequisite

CHME 312

## CHME 455

## ntroduction to Biochemical Engineering

redit Hours: 3
This course aims to introduce main aspects of biochemical ngineering. It includes application of engineering
on enzymes. Topics covered include basic biology and
bochemistry, enzyme kinetics, microbial growth kinetic
bioreactor design and scale-up, and transport phenomena
iological waste treatment and bioseparation applications
will be addressed.
Prerequisite:
CHME 314 with concurrency

## HME 458 Process Safety Credit Hours:

This course aims to establish concepts that lead to enhance process safety and hazards prevention, especially in chemical process industries. It includes application of chemical process safety principles, risk 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: <br> HME 312

## CHME 462

## Pollution Control

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, OX and global warming, Membrane separation, waste dentification, water treatment.

## Prerequisite

CHEM 102

## CHME 464

Wastewater Treatment

## redit Hours: 3

his course aims to provide an overview of the engineerin approach to wastewater treatment systems. It starts wit unit operations and processes used in the treatment of wastewaters. Physical, chemical, and biological processes are presented, including sedimentation, filtration, biologica reatment, disinfection, and sludge processing. It will xtend to understanding the kinetic theory of biological growth, applying it to typical aerobic processes, and appreciating the purpose and practice of sludge treatment Prerequisite:

## HME 315

## 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

CHME 213

## CHME 467

## Special Topics in Chemical Engineering II

redit Hours: 3
elected topics from specialized areas of chemical engineering, aimed at broadening or deepening students are published one semester in advance

Prerequisite:
CHME 213

## CHME 470

## und of Petroleum Engineering

## Credit Hours: 3

The course covers different disciplines in petroleum engineering of the upstream operation, wellbore flow performance, production behavior and reservoir management. The course incorporates external lecturers from industry, to talk about one of the major petroleum engineering disciplines, as well as a field trip to see the drilling operations and surface facilities. In addition, a Petroleum Engineering.

## Prerequisite

CHME 213 AND CHME 312

Process Equipment Desig
redit Hours: 3
aterial selection and mechanical design of heat exchangers, cooling towers, VLE columns, pumps/ influencing the design of vessels. Design of shell for foat-bottomed cylindrical vessels. Proportioning and head selection for cylindrical vessels with formed closures esign 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 show how these insights can be used to optimize process are covered. Special focus is given to integration and synthesis methods.

Prerequisite
CHME 315 with concurrency

## CHME 486

## orrosion En

Credit Hours: 3
Study of corrosion mechanisms and techniques used in prevention and control. Electrochemistry and its applicatio

Prerequisite:
CHEM 102

## HME 488

his is a research-oriented course, which is aimed at enhancing students' independent learning and research lis. A major research project in a chemical engineering topic is included. Such topics will involve theoretical, experimental or computational aspects. Students are xpected to enhance and practice research skills in the assign topic and present their results orally and in writing.

Perequisite:
ENGL 203 AND GENG 200
CHME 495

## Graduation Project

## Credit Hours:

An in-depth study of a project of defined chemic 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 work under minimum supervision.

## CHME 496

## Graduation Project

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 nvestigations. 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 to demonstrate their ability to work under minimum
to demonstrate their ability to work under minimum
supervision
HME 495
CMPE 261
Digital Logic Desig
Credit Hours: 3
ntroduction to digital logic circuit design, combinationa and sequential circuits. TTL logic family; combinationa gic design, logic minimization techniques: logic
 LDs, filip 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: 1Selected experiments examining logic devices and circuits, a final design project to accompany and complement the ecture course.
Prerequisite:
Prerequisite:
CMPE 261 Concur.

## CMPE 263

Computer Architecture \& Organization Credit Hours: 3
representation; classic components of a computer;
performance measures for computers; CPU types, design programming instruction-level description; processor modes, assembly language; main and cache memory caching techniques.

Prerequisite:
CMPS 205 AND CMPS 15

## CMPE 363

## omputer Arch

## redit Hours: 3

undamentals of computer organization. Central processing unit organization; hardwired control; arithmetic logic unit design and implementation; micro- programmed control, interrupts; instruction cycle and format, addressing modes; buses, pipelining, instruction-level parallelism, input/output system design; external storage.
Prerequisite:
CMPE 263 AND CMPE 261

## CMPE 364

Microprocessor Based Design
Credit Hours: 3
Fundamentals and evolution of microprocessors.
Architecture of a 16 -bit microprocessor, assembly language and its development tools; data transfer; arithmetic logic, program control instructions; interrupt input/output, programmable peripheral, serial input/output interfacing; universal synchronous and asynchronous receivers and transmitters; hardware interrupts, basic interrupt interface, programmable interrupt controllers; analog-digital converters; 32 -bit programming.

## Prerequisite:

CMPE 363 AND CMPE 365 Concur

## CMPE 365

## Microprocessor Based Design Laboratory

 Credit Hours: 1Experiments to emphasize the practice of assembly language programming, data acquisition software techniques, and hardware for data acquisition systems

## Prerequisite

Prerequisite:
CMPE 364 Concur.

## CMPE 370

Computer Engineering Practicum Credit Hours: 1
Introduction to hands-on broad hardware techniques and
specific hardware skills useful for computer engineers. Circuit construction through soldering; personal compute digital signal processing kits or advanced controller kits embedded reverse engineering approaches; discrete component-based analog/digital circuits; programmable hardware designs.

## Prerequisite

MPE 261 AND ELEC 231 AND ELEC 201 AND CMPE 262

## CMPE 399

Practical Training
Supervised eight week training period at an institution (Business, industrial, government), intended to provide students with hands-on experience at the workplace. valuation is based on: Daily performance, supervisor's pput, student's report, and a short presentation. <br> \section*{CMPE 455} <br> \section*{CMPE 455}

Data Communic
Fundamental concepts of communication systems such as the Internet, local area, metropolitan and wide area networks. Layered network architecture; transmission technology; data link layer protocols, broadcast networks and their protocols, flow and error control; concepts of rocols of the transport layer; examples of applicatio layer protocols.

## Prerequisite

CMPS 303 AND CMPE 456 Concur. AND CMPE 263

## CMPE 456

ata Communication \& Computer Networks I Lab redit Hours: 1
ractical skills and hands-on experience needed to build nstalling, configuring, troubleshooting and simulation tools, computer networks and their components, protocols and services.
Prerequisite:
CMPE 455 Concu
CMPE 457
Data Communication \& Computer Networks II Credit Hours: 3
Builds upon fundamental knowledge and concepts addressed in the "Data Communications and Computer (
wireless transmission; radio frequency, multiplexing, circuit and packet switching, medium access control; interior and exterior routing protocols, autonomous systems, link from IPv4 to IPv6. network and internet security VPN, cryptography, encryption schemes, firewalls, intrusion detection; congestion control, quality of service; protocols for network management; network socket programming.

## Prerequisite

CMPE 455

## CMPE 462

Computer Interfacing
redit Hours: 3
Review of basic components in computer interfacing with real-world applications in graphical programming Sensors; signal conditioning circuits; analog-digital. converters; actuators; serial and parallel data interfacing with personal computers.

Prerequisite:
CMPE 364

## CMPE 470

Modern Computer Organization
Credit Hours: 3
Discussion of current trends and future directions in computer organization highlighting various hardware and and improve performance within technological constraints. Non-von Neumann architectures; performance/cost enhancement techniques; cache memory, bus architecture memory interleaving, pipelining, super-pipelining, superscaling, vector computing, parallel organization; discussion of current research and publications in computer organization
Prerequisite:

## CMPE 471

Selected Topics in Computer Engineering
Credit Hours: 3
Credit Hours: 3
Selected topics in the field of computer engineering
addressing new trends and practical issues.

## CMPE 472

## \section*{Credit Hours: 3}

Introduction to performance analysis and evaluation Modeling and evaluation of computer systems; Markov processes and chains; single and network queues,

## Prerequisite

## GENG 200

## CMPE 474

redit Hours:
Introduction to theory, architecture, and applications of artificial neural systems; Supervised, unsupervised, and reinforcement learning in single and multiple layer neural networks; Associative neural memory recording capacity and generalization; Hardware implementation

## Prerequisite MATH 217

MATH 217

## CMPE 475

## Artificial Intelligen

Credit Hours
Fundamental concepts of artificial intelligence, logic, and knowledge representation with associated algorithms and echniques supported by logic programming applications. clauses; logic and propositional equivalencies; predicates and quantifiers; matching, backtracking, forward and backward chaining; logic programming applications.

## Prerequisite

CMPE 476

## Digital Signal Processing <br> \section*{Credit Hours: 3}

Overview of continuous and discrete signal processing with hands-on algorithmic implementation of various signal transforms and other operators for generalized applications. Analog to digital conversion methods Fourier transform z -transforms; signal sampling and reconstruction; digital filters, correlation, spectral estimation.

Prerequisite
ELEC 351 AND CMPE 478 Concur

## CMPE 478

## Digital Signal

## Credit Hours: 1

Practical implementation of digital signal processing algorithms using standard kits. Audio signal filtering sectral analysis of signals, de-convolution of composite signals, spectral shifting of audio signals; channel

Prerequisite:
CMPE 476 Concur.

## CMPE 480

Computer Vision
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 objec
recognition; use of image processing tools.
Prerequisite

## CMPE 48

## Modeling and Simulation of Digital Sys

 redit Hours: 3dvanced concepts in digital logic design using language ools to describe digital logic systems at different levels abstraction and simulation. Programmable logic synchronous and asynchronous sequential logic circuits.

## Prerequisite

CMPE 261

## CMPE 482

## Multimedia Network

Credit Hours: 3
nalysis of main characteristics and challenges o 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 o explain the main characteristics of IEEE standards or LANs and MANs. Multimedia applications; video nd audio streaming; quality of service fundamentals metropolitan, personal, and 3 G area networks.

Prerequisite:
CMPE 455

## CMPE 483

troduction to Robotics

## redit Hours: 3

se of robotics kits, robot assembly, familiarization with he basic concepts of sensing, actuation, and robotic eligence. Basic robotic sensors; actuation functions; bedded robotic task-related intelligence levels, capstone project and report presentation

## rerequisit

## CMPE 261 AND CMPS 15

## CMPE 485

## Hndamental <br> Fredit Hours: 3

Introduction to various mathematical and algorithmic concepts in digital image processing and hands-on mplementation using simulated environments. Hands-on approach to image operations; filtering, de-convolution, dge detection, geometric transformations, compression, conversions.

## MPE 487

## Hardware Softw

A knowledge of how to design reliable and realtime 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 covere are: Embedded systems design, reconfigurable computing eterogeneous SoC platforms (FPGA, ARM), HW/SW co-design techniques, hardware compilation, Tools for HW SW co-design.

## rerequisit

MPE 495

## ndependent Study

## Credit Hours: 3

Guided reading of selected topics exploring advanced vary.

## CMPE 498

## Design Project I

The first phase of the capstone design project involving number of students tackling different aspects of a hardware and/or software project. It includes problem definition, requirements gathering and analysis, dentification of appropriate engineering standards and real-life design constraints (e.g., economic, environmental social, ethical, health and safety, manufacturability, and solution, preparing an implementation project plan, and compiling all in a well-formulated interim report and orally presenting it to the examining committee.

## CMPE 499

## Design Project II

The implementation phase of the capstone design project includes the design, implementation and testing of the solution that was selected in CMPE498. This culminates in producing a working prototype, documenting the design solution and process, and presenting the project chievements. The primary objective of this course is to apply a systematic design process while incorporating multiple realistic design constraints such as econom environmental, social, ethical, health and safety, manufacturability, and sustainability.

## Prerequisite: <br> CMPE 498

## CMPS 101

## troduction to Computer Science

redit Hours: 3
undamental concepts of computer systems organization, gic, and algorithmic problem solving. Lab session: modern programming language

## CMPS 151

## ogramming

Credit Hours: 3
Exposure to problem solving techniques and operations on data using the fundamental components of a programmin language. Problem solving techniques and presentations; motivations to programming languages and program execution; fundamental components of a programming language including simple and structured data
epresentation; mathematical and logical operations; input/ control and loop structures; functions; recursion; memory referencing: and simple file processing

Prerequisite:
CMPS 152 Concur.

## CMPS 152

Programming Concepts - La
Credit Hours:
Practical experience with programming using fundamental components of a programming language and exploring additional features illustrated by solving problems of nvironments; coding quality and Purpose of programming solutions to problems using fundamental programming language features; explorations of additional language
features; debugging, testing and program evaluation

## Prerequisite

CMPS 151 Concur

## CMPS 200

## Credit Hours: 1

Overview of computing ethics and practice. Philosophical ethical theory and morality; codes ethics and professiona practice; cyber and computer crimes; whistle blowing prues; ind reedom of expression, legal and enica 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 algeb; sequences and sums; induction and recursion; numbering systems, combinatorics; discrete probability; graphs and trees.

## CMPS 251

## bjec-Oriente

## Credit Hours: 3

undamentals of object-oriented programming paradigm llustrated with an object-oriented programming language hiding; coherence, inheritance, abstraction, polymorphism, coupling; graphical user interface programming; additional eatures of the language
Prerequisite:
MPS 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 debugging, testing and evaluation of programs.

## Prerequisite:

CMPS 251 Concu

MPS 303
Data Structures
redit Hours:
and and annamic presentation, implementation, analys, and applications of abstract data types (ADT) for linear and software system development. ADTs; algorithm efficiency; earching, sorting; recursion; lists, stacks, queues, trees, graphs; hashing and file management.

## Prerequisite:

## OMPS 251 OR CMPE 265

## CMPS 307

troduction to Project Management and

## Entrepreneurship

 Introduction to entrepreneurship, and elements ofbusiness management with emphasis on managing software and information and communication technologies rojects. Concepts of project management; project pla onflict resolution organization, costs, risks, control entrepreneurship, basics of owning and operating a business, business plan development for starting and financing a small business.

## CMPS 311

bject-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 modeling; system conception; domain and application odeling; system conception; domain and applicatio modeling and design patterns; object- oriented languages code generation and reverse engineering

## Prerequisite:

CMPS 251

## CMPS 312

lobile Application Development
redit Hours: 3
Concepts, principles, design strategies, tools and ameworks to design and dever mobil applications on modern mobile platforms that make use of key mobile ensors and system services and connect to online data sources and Web services. Hands on experience $n$ designing and constructing mobile apps using mainstream development platform and framework such as

Android or IOS

## Prerequisite

## CMPS 251

Design and Analysis of Algorithm

## 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 problem-solving such as greedy methods, divide-andconquer, backtracking, dynamic programming, and branch-and-bound techniques; complexity of algorithms.

## Prerequisite

CMPS 303 AND CMPS 205

## CMPS 345

## utomata \& Formal Language

Credit Hours: 3
heoretical models of computation, their capabilities and limitations. The study of formal languages (regular and context-free languages); computational models fo 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 languas with a ocus on relational databases. Motivations to the concepts of database systems including components, types and architectures, data modeling (diagrams, models, and schemas); relational data model, mapping conceptua schema to a relational schema; relation
elational calculus, SQL; normalization.

## Prerequisite

CMPS 251 AND CMPS 352 Concur.

## CMPS 352

## undamental

 Practical experience on database system developmentfor different types of requirements. Familiarity of a DBMS

Prerequisite:
CMPS 351 Concur.

## CMPS 356

## Software Deve

Credit Hours: 3
Introduction to issues, architectures, and technologies for designing and developing multi-tiered enterprise 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 application frameworks, middleware, and development tools to design

Prerequisite
CMPS 351

## CMPS 37

Computer Graphics
Credit Hours: 3
Fundamental concepts of computer graphics illustrated with programming applications using a graphics package 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 <br> CMPS 303

CMPS 393
Credit Hours: 3
Fundamentals of studying systems by modeling and simulation focusing on developing discrete-event simulations. Reasons for simulation, basic simulation modeling; systems modeling; developing discrete-event merating quend varieties, andysis of simulation data verification and validation of simulation models

## Prerequisite:

CMPS 303 AND GENG 200

## CMPS 399

## Practical Trainin

Supervised eig
upervised eight week training period at an institution Business, industrial, government), intended to provid Evaluation is based on: Daily performance, supervisor's input, student's report, and a short presentation.

## CMPS 405

## perating Systems

Credit Hours
undamental concepts of operating system design and implementation. Overview of operating system synchronization; implementation of processes; deadlock; scheduling algorithms; memory management; input/outpu and file systems; protection and security.

## Prerequisite

CMPS 303 AND CMPS 406 Concur. AND CMPE 263

## CMPS 406

perating Sy
Practical experience with an operating system's
components, associated services, and implementations. Operating system structure, components, services, shell commands; process management, inter-process exclusion synchronization: implementations of CPU scheduling algorithms, memory placement algorithms protection and security.

Prerequisite:
CMPS 405 Concu

## CMPS 411

## Software Engine

Credit Hours: 3
undamental principles of classical and modern software engineering theory and practice. Taxonomy of software systems; software project management, process models requirements engineering, design, architectures, us interface design; software development methods; verification, validation, testing; software management (people, cost, quality, process improvement, configuration) merging 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 manipulation of multimedia obiects using supported tools; xonomy of multimedia objects; authoring programs, text, images, 2D and 3D graphics, audio, video; data compression; multimedia content design, human-computer interaction; and multimedia application development.

## Prerequisite

CMPS 445
Compiler Cons
Theoretical and technical aspects needed to construct compilers and interpreters illustrated by a comprehensive tudy of the design and implementation for a mini anguage. Fundamentals of compilers and interpreters; syntactic and lexical analysis; handling user-defined types oplinion; organization.

Prerequisite
-
CMPS 451
atabase Management System
edit Hours:
Management of operations of internal components and advanced features of database systems and a study concurrency control; security; optimization; object-oriente and distributed databases; data warehousing and mining; urrent developments in database technology; integration of databases to internet environments.

Prerequisite:
CMPS 351

## CMPS 453

Data mining
Principles concepts of data mining techniques and their practical application in pattern recognition and knowledge iscovery from large data sets. Fundamental strategies and mechodologies of various classichication, clustering, data sets. Hands-on experience with a variety of different data mining tools.

Prerequisite

## CMPS 454

## Wireless Network \&Applicatio

 Credit Hours: 3undamentals of radio transmission including an overview of wireless networks, cellular networks, wireless , Multiplexing, circuit and packet switching; fundamentals 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 he design and engineering of modern parallel computing ystems including system models and enabling strategies, parallel algorithms and their applications, optimization and performance, implementation rameworks 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

## Prequuisite

CMPS 405

## CMPS 466

## Information Retrieval

Credit Hours: 3
Fundamental aspects of classical information retrieval echniques, strategies, and future trends. Web information storage and presentation schemes; web- based and onlin ranking of search results; search engines, web crawling, meta-searchers; centralized and distributed architectures semi-structured data models; merging technology; query anguages for semi-structured data.

Prerequisite
MPS 303

## CMPS 485

## Computer Security

Comprehensive study of information security fundamentals. Information assurance, risks, vulnerabilities
access control, protection methods; encryption, authentication; host-based, network-based, and physica security: legal and ethical implications.

Prerequisite

## CMPS 493

Senior Project
Credit Hours: 1
The first phase of the computer science capstone project that involves number of students tackling differen aspects of applied-research and/or development projec
requiring significant effort for planning and completion. Team members experience different roles and gain rang 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 leve architecture of the proposed solution, preparation of a project plan for implementing and completing the project, a well-winin

## presenting it to the examining committe

## CMPS 49

## 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
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 forma final report, and presenting the project achievements including a demo.

## Prerequisite

## CVEN 210

## roperties \& Testing of Matrerials

redit Hours: 3
Composition and properties of Portland Cements, special cements, gypsum, lime, and asphaltic materials. Properties design. Use of stones, blocks and bricks. Ferrous and nonferrous metals. Wood.
The laboratory component includes: tests on Portland cement, sieve analysis and grading of aggregate, specific
gravity and absorption of coarse aggregate, Los Angeles abrasion test, slump test, measurement of air content, concrete mix, crushing of concrete cubes, split-tensio

Prerequisite:
CHEM 101 AND CHEM 103

## CVEN 212

## Fluid Mechanics

Credit Hours:
Elementary mechanics of fluids with emphasis on hydrostatics, control volume analysis of flowing fluids using inematics, continuity, energy, and momentum principals; similitude, pipe flow.

Prerequisite:
PHYS 191 AND PHYS 192 AND (CVEN 213 OR CVEN 211)

## CVEN 213

## Sredit 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, Hooke' law, axial load, stress due to temperature, introduction o statically indeterminate members, axial load and and bending stress, transverse shear and shear stress, combined loadings and stresses, stress transformation, introduction to design of beams, introduction to buckling of columns.

CVEN 220

## Credit Hours: 3

 Type of loads. Stability and determinacy of structures.Analysis of determinate trusses, beams, and frames.

Reaction computation. Axial force, shear force and bending moment diagrams. Deflection calculations by eometric mellods and vitual work melhods. Influenc introduction to statically indeterminate structures.

Prerequisite
CVEN 213 OR CVEN 211

## CVEN 230

## Geotechnical Credit Hours:

## redit Hours: 3

oil Composition, soil-water system, classification of coil, permeability and seepage, stress distribution in sol, compressibility of soil, settlement analysis for shallow foundations, shear strength of soil.
The laboratory component includes: visual inspection, sieve and hydrometer analyses, Atterberg limits, constant and falling head permeability, compaction, field density, unconfined compression testing

Prerequisite:
CVEN 213 OR CVEN 211

## CVEN 270

## Surveying for <br> redit Hours: 3

Introduction to Surveying and Geomatics. Measuremer and Units. Theory of Errors. Vertical Distance
Measurements: Types of Leveling Differential Leveling
rocedures and computations, Profiles and Cross-
Sections. Horizontal Distance Measurement: Taping and
Electronic Distance Measurements. Horizontal and Vertica
Angle Measurements. Theodolites and Total Station.
Traverse Computations and Adjustments. Areas and
Volumes Calculations. Mapping \& Computer-Aided Survey Setting out Construction Sites. Introduction to GIS.

Prerequisite:
MATH 101

## CVEN 320

Des of Reinforced Concrete Members
Credit Hours: 3
Reinforced concrete material characteristics, Load determination and distribution, Flexural analysis and way slabs Shear design of beams, Design of short columns subjected to concentric and eccentric loading Serviceability, bond and development length.

Prerequisite:
CVEN 220 AND ( CVEN 214 OR CVEN 211)

## CVEN 321

Analysis of In

## Credit Hours: 3

Analysis of indeterminate structures by: force method,
 ntroduction to matrix structural analysis.

## Prerequisite

CVEN 330

## Foundation Engineering

Subsurface investigation (planning, boreholes, open and est pits, soil sampling, rock coring, visual inspection, SPT, CPT, vane shear test, plate load test, field permeability est, geophysical test methods, exploration report), so bearing capacity for shallow foundations, lateral earth pressure, stability of retaining walls, introduction to deep oundations, computer application.
reren 230 AND ( CVEN 214 OR CVEN 211)

## CVEN 340

## Analysis and Design of Hydraulic Systems

 Credit Hours: 3Applications of fluid mechanics to engineering and natura stems, including closed-conduits and pipe networks,

Prerequisite
Prerequisite
CVEN 212

## CVEN 342

## Water Resources and Management

 Credit Hours: 3Andion to basic concepts and issues of water esources management, emphasizing on water law organizational arrangements, sustainable water resources development. Case studies illustrate the role of political, social, economical, and environmental factors in decision making. Physical properties of groundwater and aquifers, principals and fundamental equations of porous media ow and mass transport, well hydraulics and pumping tes analysis, role of groundwater in the hydrologic cycle.

Prerequisite

## CVEN 350

Environmental Engineering

## Credit Hours: 3

troduction to water pollution, air pollution, so eir control Envirenmenal pollution issues, Introduction to groundwater engineering Waste water management and sanitary engineering

CVEN 212 AND CHEM 103 AND CHEM 101

## CVEN 352

## Waste Manage

credit Hours: 3
hysical, biological and chemical water uality parameterization and measurements, astewatergeneration and collection, biological
wastewater treatment and reuse, industrial wastewater reatment, solid waste management, remediation of contaminated soil, groundwater remediation, hazardous waste

Prerequisite

## CVEN 360

## Highway Engineering

## Credit Hours: 3

Introduction to highway engineering. Functional classification of the highway system. Driver and vehicle haracteristics. Traffic characteristics. Grades and sight distance. Design speed. Design specirications for
cross section elements. Geometric design of highways; horizontal and vertical alignment design. Intersection design for at-grade intersections.

## Prerequisite <br> CVEN 270

## CVEN 380

## onstruction

Topics covered in this course are: introduction to the construction industry, management processes, time \& cos processes, project budgeting, management of construction equipment, safety of construction sites, legal aspects in construction and construction claims. Introduction to computer applications in construction engineering

## Prerequisite

CVEN 320

## CVEN 381

Contracts, Specifications, and Local Regulations Credit Hours: 3

Law of contracts; formation principles. Performance of breach of contract obligation. Termination of agreemen pe-qualification. Contracts for construction and nsurance and bonds. Water rights. Environmental law. Arbitration of disputes. Local regulations.

## rerequisite

CVEN 380 Concur

## CVEN 399

## Practical Trainin

Credit Hours: 3
Supervised 8 -week training period at any approved engineering concern (consulting, contracting, industrial, experience in the workplace. Evaluation is based on daily performance, supervisors' input, student's report, and a short presentation

## CVEN 401

## Civil Engineering Design Project

## Credit Hours: 1

Analytical, design, experimental, or field work carried out in accordance with a pre-approval project plan under the supervision of faculty member(s).

## CVEN 402

ivil Engineering Design Project II redit Hours: 2
Couse is a continuation of course 504401

## Prerequisite CVEN 401

## CVEN 420

Design of Steel Structures
Credit Hours: 3
Properties of structural steel. Steel sections. Analysis and design concepts, LRFD design concept. Design of tension plates. Design of beams with and without lateral supports. Design of members under combined axial and bending loads. Design and details of simple bolted and welded connections, and an introduction to common building connections. Introduction to plastic analysis.
Prerequisite
CVEN 220 AND ( CVEN 214 OR CVEN 211)
CVEN 422
Design of Reinforced Concrete Structures Credit Hours: 3
Analysis and design of: irregular beams, deep beams, and
continuous beams. Analysis and design of two-way floor systems (solid slabs on beam and flat slabs). Analysis an design of irregular (circular, triangular and trapezoidal) structures. Analysis and design of uniaxial and biaxial ong columns. Torsional analysis and design of reinfor ncrete members. Analysis and design of reinforced oncrete foundations: isolated footings, wall footings, combined footing, and strap footings. Analysis and design of retaining walls.

## Prerequisite

## VEN 423

## Selected Topics in Structural Design

gn 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
Matrix Analysis of Plane Framed Structures: force method and displacement method. Formulation of stiffness and inite element
method
quisite:
CVEN 321

## CVEN 430

## Foundation Engineering II

redit Hours: 3
nalysis and design of deep foundations (piers, caissons,
piles), stability of open cuts, stability and design of sheet-pile walls (cantilever, free and fixed earth support types, ties, wales), design of secant-pile walls, compute applications.

Prerequisite
CVEN 330
CVEN 431
Selected Topics in Geotechnical Engineering Credit Hours: 3
tability of slopes, design of dewatering systems, characteristics of desert problematic soils (swelling soil,
dune sand, salt-bearing soil "Sabkha", liquefiable sand),
soil improvement methods (mechanical, chemical), description and use of geosynthetics, stability and design f reinforced-earth walls, design of liner systems for containments and solid wa applications.

Prerequisite
CVEN 230 AND ( CVEN 214 OR CVEN 211)

## CVEN 442

## Selected Topic

redit Hours: 3
An introduction to basic concepts and issues of water resources management, emphasizing on water law 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 low and mass transport, well hydraulics and pumping tes alysis, role of groundwater in the hydrologic cycle.

## Prerequisite

## CVEN 453

Selected Topics in Environmental Engineering Credit Hours: 3
Air Pollution Control, wastewater treatment, industrial wastewater treatment, solid waste management remediation, hazardous waste, water quality measurements, air quality measurements.

Prerequisite
CVEN 350

## CVEN 460

## Pavement Materials and Desig

## Credit Hours: 3

Properties, uses and tests of asphalt materials, Aggregate ypes and classification. Traffic characterization. Pavement ypes and infrastructure. Asphalt concrete mix design methods. Introduction to super pave systems. Flexible and rigiod pavements. Pavement evaluation; Serviceability and rigid pavements. Pavement evaluation; Servicea

Prerequisite:
Prerequisite: 360 AND CVEN 230
CVEN 461
Traffic Engineering

## Credit Hours: 3

Introduction to Traffic engineering. Characteristics of road users, vehicles, and roadways. Traffic stream and delay and parking studies. Capacity and Level to service (LOS) analysis for roadways and intersections. Traffic Safety; Accident studies and analysis. Methods of intersection control. Traffic signals; Warrants for signalization, Principles of Phasing, Signal coordination, and Traffic signal design and timing.

## Prerequisite

CVEN 360

## CVEN 462

## Selected Top

Credit Hours: 3
Highway plant
peration (bus and rail) Analy plans design and interstion (bus and rail), Analysis and design of signalized coordination , Introduction to pavement manage systems, Introduction to airport engineering New developments in transportation engineering.

## Prerequisite

CVEN 360
CVEN 481
Project Planning \& Scheduling
Credit Hours: 3
Introduction to Project Management Body of Knowledge (PMBOK), network methods of project planning \& scheduling, such as AON, PERT, bar-charting, line-ofscheduling, such as AON, PERT, bar-charting, ine-ofanalysis 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 made from the following topics: risk
management, value engineering, total quality management, and procurement of construction projects, project budgeting.

Prerequisite
CVEN 380

DAWA 111

## slamic Culture

redit Hours:
a enlightening him about the challenges facing this culture.

## DAWA 113

hilosophy of Sira
Credit Hours: 3

- Highlighting the personality of the Prophet (peace be upon him) in the various spheres of life
he hearts of the studte Prophet (peace be upon him) in
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.
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 equired for a successful life.
2- Entrenching virtues in the student
3- Developing communications skills.
4-Encouraging the student to participate in Dawa activities in the society.
5 - Introducing the student to various Dawa institutions
6 - Acquainting the student with skills for dialogue,
discussions and objective reasoning.

- Enabling the student on analyzing modern means of Dawa.


## DAWA 117

Ethics
1 - Educating the student on the centrality of ethics in the making of a human, social, cultural and civilizational makeup.
2- Introducing the student to the role played by ethics in preserving humanity and nature and in the right development of human beings emotionally, socially, justice and a civil society.
3 - Acquaint the student with essential moral qualities, its mportance and benefits in life and it practical results. 4- Engraining in the student moral etiquettes through the exposition of the essence of morality and the ways and
means to nurture it.
5- Acquainting the student to the characteristics of Islamic with various ethical philosophies ically

## DAWA 202

Introduction to
troduction to general Philosophy

- Introduce the student to the essential issues o
philosophy.
2- Introducing the student to the most important schools of philosophy.
Introducing the student to the contribution of philosophy
4- Enable the student to objectively interact and deal with
philosophical thought.


## DAWA 203

## Principles \& Method of Daw

Credit Hours: 3

- Develop an intellectually and behaviorally sound

2- Prepare a successful preacher/schist tendencies. contribute positively in reforming the society

- 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.
- Educate the student on dialogurogy of his audience. skills for Dawa work.
8 - Assisting the student in achieving model roles from the life pattern of the Prophet (peace be upon him).


## DAWA 204

## Research Methodology

Credit Hours: 3
The objectives of the course are to provide students with: - An introduction to research methodology and independent research skills.

- Key empirical and analytical skills that will facilitate
disciplinary and interdisciplinary research in various fields. Improved academic writing skills, the ability to give and receive constructive feedback and to act constructively upon it
ways of using library resources for research works


## AWA 205

School of Islamic Though
Credit Hours: 3
There are three realms in which these objectives vividly

## manifest themselves

- In the field of knowledge - the student would learn: the origin of the schools of Islamic thought and their spread
the impact of the political and social situation in conditioning the development of the thought pattern of these schools, and in turn the impact of these schools on intellectual and social life.
Views and concept of each school
Characteristics of each school and its methodologies. -The guiding conceptual principles which guided the .
The civilizational impact of these schools of Islam 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.
- In the field of skill, al-hiss al-haraki - to develop and nurture the students intellectual cultural and academicu


## DAWA 206

## International Or Credit Hours: 3

Organisations and human rights issues
2- Introducing the student to the most important International Organisations
3 - Introducing the student to the issue of human rights and different views around it and the issues related to it organizations and interact with them.

## DAWA 207

## slamic Instituti

Credit Hours: 3
1 -Introducing the students to the institutions of Islam which regulate their society politically, economically and socially. 2-ntroducing the student to the merits of Islamic 3 -Nurturing the students' understanding with respect to the issues that help in organizing ones life meaningfully, -Explaining the characteristics of Islamic institutions with respect to their divine nature, their adaptability, development, comprehensiveness, practicability, middleoursed nature, fairness, moderation and the ability to safeguard ones freedom and respect for human rights.

## DAWA 214

Textual Study Of The Quran
Credit Hours: 3

- Educate the student on the best way to partake of the Qur'an and understand its methodology.
- 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.
Fuly acquaint the student with the Quranic approach to interacting with the 'other'.

Prerequisite:
DAWA 110 OR ISLA 203 OR ISLA 102

## DAWA 222

## Alliance of Civilizati

Credit Hours: 3
This course aims to provide a vision for the possibility of the Aliance of Civilizations, based on the commonalities 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 Islamic civilization in human progress with emphasis on the values of tolerance and solidarity between peoples.

## DAWA 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.

## DAWA 302

## world Religions Comp Studies

Credit Hours: 3

1. Introducing students to the science of history o comparative religion.
2. Introduce the student to the different methodologies of comparative religion.
3. Enable the student to carry out comparative religious
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.

## DAWA 303

## Comperative M

1- Importance of the study of comparative mysticism. 2- Introduction to the commonalities of human spiritual experience.

3- Introduction to the characteristics of mystical experience.
4- Highlighting the human, intellectual, psychological and ethical dimensions of the mystical experience.
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.

\section*{DAWA 305

## DAWA 305 <br> \section*{Credit Hours: 3}

- Introducing the student to the most important schools modern western philosophy.
2- Introducing the student to the contribution of modern philosophy in the European civilization.
3 - Enable the student to objectively interact and deal with modern western thought, benefit from its positive aspects and forsake its negative aspects.
-Enable the student to evaluate modern philosophy in the light of Islamic beliefs


## DAWA 306

## History Of Religion

Credit Hours: 3
Introducing the student to the major religions of the world with respect to heir origin, development, sacred scripture theological juristic and major contemporary trends.

## AWA 311

## Dawa in the Modern Age

Credit Hours: 2
Aims at critically analyzing the current state of Daw movements, trends, individuals and institutions.

## DAWA 312 <br> AWA 312

## Dawa Personal \& the Society

Acquaints students with the nature of Dawa Society, is institutions and cultural and intellectual trends, and prepares them spiritually, intellectually and culturally to interact with that society.

## DAWA 401

Area Studies
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 and personalitie 3 - Encourage the student to keep close track of all
developments in this areas.
5- Encquaint the student with the cultre of these places.
various places in different respects.

## DAWA 402

World Religious Thought
Credit Hours: 3
1- Acquaint the student with the modern religious map of the world and introduce him to the most essential issues gaging man in this regard

- Introduce the background against which all these

3 - Acquaint the student with the student.
methodologies involved in these studies.
4- Engage the student in understanding and appreciating
the points of view of other religions in this regard.
5- Provide the student the necessary material and motive wrust while representing his

## DAWA 403

## Graduation Projec

Credit Hours: 3
The student will have to carry out a research project as a necessary part of graduation, on a topic or a theme of his choices after the approval of the department and under project from the third year if he wishes so. No degree will be conferred on him until and unless he successfull completes the project to the satisfaction of the department.

## DAWA 404

## Sociology of Religion

Credit Hours: 3
1- Introducing the student to the social dimension of
religion and its academic importance through the sociolog of religion.
2 - Introducing the student to the origins, schools, theories, methodologies and leading figures of this discipline and enabling him to critically analyze it.
3- Acquaint him with the meaning of social change and its
various theories and the role played by religion in it.
4 - Educate the student on the perspective of the scholars or sociology on the nature of religious and political nstitutions in the modern societies and encourage him to evelop his own critical opinion on the subject. scholars in this field and comparing it with the modern western endeavors in the field.

6- Develop in the student a clear and concise Islamic view of religion and society and encourage him to understand and appreciate the modern views of civil society and human rights.
Educate the student on critically analyzing theories

## DAWA 405

ndependent Studies
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 discussion and exchange of ideas between students and he instructor.

## ECON 101

## Principles of Ec Credit Hours: 3

Scope of economics. The economic problem. Factors of production. Law of diminishing returns. Division of labo Price determination. Elasticities of supply and demand
 monopoly. Money; its function, Market structure. National Income. Foreign trade.

## Prerequisite:

ENGL 4 OR MATH 119 ) OR COMP FO03 AND (COMP 2 OR ENGL 2011) OR ENGL Fo73

## ECON 103

Principles of Law
An introduction to the basic principles of law of contract. General theory of law. Nature and characteristics. Branches of law sources of law. Application of law as to me and place. Theory of equity.

## ECON 111

## Principles of Microeconomics

Credit Hours: 3
his course focuses on basic microeconomic concepts such as 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 119

## ECON 112

Principles of Ma
Credit Hours: 3
Credit Hours: 3
This course focuses on basic macroeconomic concepts
This course focuses on basic macroeconomic concepts such as the production possibiiity set, the circular for
of income, the national accounts, the components of aggregate spending, a simple model of income determination and international linkages.
Prerequisite
MATH 103 OR Mathematics Placement Test 180 OR ACTH OR SAT 5000R MATH 021 OR MATH F014 OR

## ECON 201

Microeconomics
Credit Hours: 2
MATH 103 OR Mathematics Placement Test 180 OR ACT 210 R SAT 500 OR MATH 021 OR MATH F014 OR

## ECON 202

## 202

## Credit Hours: 2

Aggregate supply and demand. Says law. Circular flow
of income. Consumption function. Saving function. Determination of National Income. Aggregate supply and demand. The multiplier. The Keynsian system. Money Monetarism versus Keynsianism. General equilibrium analysis.

## ECON 211

## Intermediate

## Intermediate Mi

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

Prerequisite:
ECON 111 AND ECON 112

## ECON 212

termediate
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 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

## CON 214

## Monetary Policy <br> Credit Hours: 3

This course covers the evolution of money. The monetary systems, the financial system, interest rates, commercial
The central bank: its role in setting monetary policy and money supply. Money demand, money and inflation, and the role of money in economic activity.

Prerequisite:
ECON 111 AND ECON 112

## EON 301

## athematic

## redit Hours: 3

Deals mathematically with Theory of Consumer Behaviour, Theory of Production. Market Equilibrium. Input-Output analysis. National Income determination. economic growth models. II. Econometrics: Significance of econometrics. Economic research approach. Estimation of parameters. Simple and multiple linear models.

## ECON 302

## CON <br> Economics of M

Definition and types of money. Value of money. Gold standard and its mechanism. Supply and demand of money. Elasticity of supply and demand of money. Velocity of circulation of money. Monetary theories Classical, Fisher, Keynes and Milton Friedman. Commercial and Central banks. Monetary policy. Arab monetary integration

## ECON 303

Public Finance
Credit Hours: 2
The concepts and development of public finance. The interference and effects of government on economic activity. The concepts and growth of public expenditure. The development and analysis of public revenue and its effects on economic activity. Taxes and their types. Public debt and its role in achieving econon
budget and its economic objectives.

## ECON 305

Economics of Arab Countries
Credit Hours: 3

Application of economic structure on Arab Countries. Relative shares and economic activities. Foreign- and Arab economic integration experience and evaluation Cooperation Council for the Arab countries of the Gult experience and evaluation. Theory of integration.
Arab economic integration experience and evaluation Cooperation Council for the Arab countries of the Gulf experience and evaluation.

## ECON 306

Economics of
Credit Hours: 3
Labour Economics: The concepts of labour. Wages heories. Wages differential. Marginal productivity of labour. Equilibrium of the labour market. Phillips curve and Is applications. II. Economics of Industry: Industrialization.
Factors affecting the structure of the industrial sector.
Criteria for industrialization. Motives for industrialization
Capital intensity and industrialization. The relationship Proben the oplimum size industriza in the

## ECON 307

## Advanced Economic Theorie

Credit Hours: 3
Factor pricing within different market structures. General equilibrium and resource allocation. Economic welfare criteria and how to maximize it. Some macroeconomics

## ECON 308

## Comparative Economic System

ssentials of cap hought. Economic systems; a comparison of economi systems in developed and undeveloped countries. A omparison of economic relations in traditional and modern economic sectors in developing countries.

## ECON 311

## Credit Hours:

this course examines properties of the least-squares estimators, specification, estimation and hypothesis testin of the simple and multiple regression models, use of dummy variables and violations of classical assumptions

Prerequisite:
ECON 111 AND STAT 222 AND ECON 112

## ECON 312

Microeconomic Policy

## Credit Hours:

iicroeconomic tools to analyze policy implications of the decisions taken by various economic units. Consume ariffs and quotas on market equilibrium, black markets, objectives of the firm, price discrimination, deadweight loss of monopoly, patent policy, markets for nonrenewable esources, product differentiation, cartels, bargaining, two fiered oil pricing, time allocation, labor supply and labor markets, externalities, public goods and public decision making.

## Prerequisite <br> ECON 211

## ECON 313

## Macroeconomic Polic

Credit Hours: 3
Stabilization policy; the dynamics of inflation and unemployment; inflation and indexation; money, eficits and inflation; budget deficit and the public debt; mix of monetary and fiscal policy in an open economy; macroeconomic policy and the recovery and the minimalis macroeconomic policy. <br> \section*{\section*{Prerequisite
ECON 212}} <br> \section*{\section*{Prerequisite
ECON 212}}

## ECON 320

Mathematical Economics
Uredit Hours: 3
Use mathematical techniques in understanding economic heory; optimization with and without constraints; KuhnTucker conditions and game theory and apply these echniques to microeconomic theory. Other topics covered nclude linear, nonlinear and dynamic macroeconomic models.

Prerequisite:
ECON 211 AND ECON 212

## ECON 331

 Money \& Banking Credit Hours: 3 Nature and functions of money, the transaction and asset demand for money, the quantity theories of money, the institutions, the Central Bank, monetary policy and international money and bankingPrerequisite:
ECON 112 AND MATH 22

ECON 341
ublic Finance
redit Hours:
Development of public finance as a discipline, government expenditure, sources of activities, impact of government xpenditure, sources of government revenue, impact of and economic activities, government budget and
public debt.
Prerequisite:
ECON 211 AND ECON 21

## ECON 361

International Trade
redit Hours: 3
Theory of comparative advantage and the gains from trade, tariffs and other trade restrictions, protection policies, the GAAT, mechanics of international payments,

## Prerequisite:

ECON 212

## ECON 401

## nternational Economic

Credit Hours: 3
International trade theories; classical, neoclassical, Heckscher-Ohlin, technological theories. Economic growth and international trade. Monetary theory and balance monetary systems.

## ECON 402

## lanning \&

Credit Hours: 3

1. Economic Planning. Definition of planning. Arguments fo planning. Some concepts of planning. Time span of plans. Formulation of plans. II. Economic Development Economic anderdevelopment and characteristics of underdeveloped Theories of economic development. Policies of economic development.

## ECON 403

Project Evaluatio
Credit Hours:
General framework of feasibility studies. Commercial dofitability of the project. Marketing feasibility study Financial and economic evaluation of commercial profitability. Break-even analysis. Pay-back period. Net Present Value (NPV) (cost/benefit) analysis. Internal rate of return. National profitability of the project (investmen criteria). Social (cost/benefit) analysis. Balance of
payments criterion. Recoupment period criterion. Income distribution criterion. Other criteria

## ECON 404

## nergy Economics

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 differences and similarities in the usage of these different differences and similarities in the usage of these differen sources.

## ECON 405

Seminar
A series of seminars dealing with current economic issues and topics related to the state of Qatar as well as the Gu esearch paper during the course

## CON 411

conometric Models
Credit Hours: 3
Autoregressive and distributed lag models, simultaneous equations models and time series econometrics and orecasting with ARIMA and VAR models. Techniques of data gathering and choosing a resea

## Prerequisite

ECON 311

## ECON 431

## Monetary Policy \& Foreign Exchang

 Credit Hours. 3introduction to the instruments of monetary policy and international finance. Topics covered are monetary policy 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, currenc utures and swaps and exchange rate forecasting.

Prerequisite:
ECON 212 AND ECON 33

Economic Development
Credit Hours:

This course focuses on the main characteristics of developing countries, indicators of economic developme theories and strategies of barriers to development, negative aspects of econ development and sustainable growth to be addressed.

Prerequisite
ECON 111 AND ECON 112

## ECON 452

## ndustrial Economic

Credit Hours: 3
his course provides an overview of the industria rganization framework, market structure and performance, market concentration, pricing theor
and strategy, game theory, innovation and market
structure, managerial firms, firm size and diversification multinational firms and transfer pricing, international rganization, vertical integration, technology choice, and industrial policy.

Prerequisite:
ECON 111 AND ECON 112

## ECON 453

## International E

Credit Hours: 3
This course examines the theory of comparative
dvantage and the gains from trade, tariffs and other trade international payments, and international monetary reform.

## Prerequisite:

ECON 111 AND ECON 112

## ECON 454

## conomics of Energy

Credit Hours: 3
This course examines the essential economics of various ources of energy; emphasis given to the demand for oil, supply of oil, fluctuations in oil prices, forecasting oi 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 11

ECON 471

## roject 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 rojects, multiple projects and capital budgeting, and roject management are covered
rerequisite:
ECON 211 AND ACCT 112 AND MAKT 115

## ECON 472

## Managerial Econo

Credit Hours: 3
This course covers the scope of managerial economics, ools of analysis and optimization, demand, markets, short and long run), market structure: perfect competition, monopolistic competition, oligopoly, and monopoly, marke ower and market domination including; cartels, local and international dominating firms, and pricing practices (price discrimination, action reaction pricing policies, and capita 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 theories; wage differential; labor productivity; expected inflation

Prerequisite
ECON 211 AND ECON 21

## ECON 483

Environmental Economics
redit Hours: 3
Examination of the impact of economic growth on the environment. Special attention is directed toward examples that demonstrate the impact of pollution on different economic variables

Prerequisite
ECON 212 AND MAGT 203

## EDEC 410

## Play \& the Theory of Movemen

Theory and research in the field of play and movement for young children are the focus of this course; characteristic are covered. Course experiences are oriented toward

## 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 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 0
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. ncludes an emphasis on how these factors are related in the permissive-restrictive dimensions of child rearing and socialization in broad perspectives across environmenta contexts, an examination of resources and systems to "atrisk" or have disabilities, and review of technological tools used to locate and compile information on communit resources.

Prerequisite:
EDUC 310 AND EDUC 315 AND EDUC 312

## EDEC 413

## egrad math \& Science for young child

## Credit Hours: 3

his course is designed to help the student gain nowledge 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; ilustrates and applies models for integrating elementary mathematics and science teaching; provides practical This course addresses specific State of Qatar National Curriculum Standards and requires an extensive fieldbased component.

Prerequisite:
EDUC 312 AND MATH 103 AND BIOL 101 AND EDUC

315 AND EDUC 310

## EDEC 452

## Deaching Re Teaching Readin

This course will apply the theories of literacy acquisition o classroom settings. The course will investigate ways o help students learn to read and to write, how to assess and remediate learning, and how to address special issues related to the skills of reading and writing.

## Prerequisite

EDUC 312 AND EDUC 313

## EDEC 453

## Teaching A Credit Hours: 3

Participants in this course will study goals, methods, and materials appropriate for teaching young children the Arabic language, with special emphasis on the Curriculum Standards for the State of Qatar, Arabic. This

## Prerequisite

EDUC 312 AND ARAB 213 AND EDUC 313

## EDEC 454

## Integrated Socia Credit Hours: 3

 Credit HoursThis cours will investigate how to apply theories of educational philosophy and psychology to teach the values of social studies. There will be
 raditional ways of life in Qatar

## Prerequisite

EDUC 312 AND MATH 103 AND (BIOL 101 OR BIOL 00) AND EDUC 315 AND EDUC 310

## EDEC 456

## ESL and Young Children ESL and Young

This course deals with theory and best practice in eaching, 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 and languse acquisition. Langu heories of child secoling ange acg planning lessons and curricula, and classroom organization and management will also be also explored. This course includes an extensive field-based component.

EDUC 311 AND ENGL 150 AND EDUC 313

## EDEC 48

## Student Teaching

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 bservations, and from mentor teacher suggestions. 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 Concur. AND EDUC 314 AND EDUC 318 AND EDUC 313 Concur. AND 316 AND EDUC 312 AND EDUC 315

## EDPR 410

## Reading and Writing in all Disciplines

his course will focus on the theories and research that underpin the incorporation of reading and writing in even 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 d how those theories may be applied in the classroom.
rerequisite:
EDUC 311 AND EDUC 313

## EDPR 446

## eaching Primary Level Arabic

Credit Hours:
articipants in this course will study goals, methods, and materials appropriate for teaching primary students in the Standards for the State of Qatar, Arabic. This course includes an extensive field-based component.


## EDPR 447

## eaching Primary Level Islamic

course will study goals, methods, and materials appropriate for teaching primary students in slamic Studies. This course includes an extensive fieldbased component.

Prerequisite
312 AND ISLA 106 AND ISLA 105 AND EDUC 315 AND EDUC 310

## EDPR 448

## Teaching Primary Level Social Studies

his course concentrates on the teaching strategies of ocial studies, its approaches, and its methods in genera ducation classes for the primary level. The course ncludes a number of topics incluaing the nature of social definitions and the mutual relations among its branche 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, earning resources, as well as evaluation methods. This course includes an extensive field-based component.

## Prerequisite:

rerequisite: 315 AND EDUC 310

## EDPR 450

## Teaching Primary Level Scienc

## Credit Hours: 3

Participants in this course will study goals, methods, and materials available for teaching topics such as scientific nquiry, matter and energy, biological systems, space and 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:
DUC 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 numeration, geometry, basic operations, fractions, decimals, percent, measurement, and probability in the primary schoo
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 <br> Credit Hours: 2

This course focuses on the candidates' acquisition of research and inquiry skills to support data collection, analysis, and reflection (action research). The application of qualitative and qualitative research methodologies will be examined. In addition, candidates will learn how to teach and support higher level thinking and inquiry skills in
primary students and how to teach students to design and conduct experiments in science and mathematics. This course has a field-based component.

Prerequisite:
EDUC 312 AND EDUC 315 AND EDUC 310

## EDPR 453

Teaching Primary Level English (ESLI)

## Credit

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 econd language. Til chniques, material selection, and evaluation and and ESL/EFL classrooms. This course includes fieldbased experiences in a primary school setting

## Prerequisite:

EDUC 311 AND ENGL 157 AND ENGL 153

## EDPR 454

## eaching Primary Level English (ESL II)

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 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.

## EDPR 455

## Teaching Primary Level Reading

Ceaching Prima
This course is a comprehensive reading instruction course that is research based and includes the study of phonemic awareness, phonics, comprehension, spelling patterns, and methods of delivering a strong literature based program with emphasis on content area reading, echniques. This coure has a field-based component

Prerequisite
EDUC 312 AND EDUC 315 AND EDUC 310

## EDPR 481

## Student Teaching

## redit Hours: 9

This course will provide ongoing mentoring and reflection during a 10 -week Student Teaching experience and the 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 318 AND EDUC 317 AND EDUC 316 AND EDUC 312 AND EDUC 315

## EDSE 331

## Reading \& Writing Across the Curriculum

 redit Hours: 3The 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 the candidate to critically analyze learning and literacy
instruction in today's schools. We will focus on providing 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 applies to secondary students. The course uses a socialconstructivist theoretical perspective and involves a fieldbased experience.

Prerequisite:

## EDSE 332

## Second Lan

## Classroom

This course is designed for in-service teachers to enable them to teach in multi-lingual settings by selecting
and modifying curriculum and instruction for second
language learners. During this course, current and pas methodologies for teaching limited-language-proficient students at the secondary level will be thoroughly troduced and analyzed. Students will determine which As the course progresses, participants will reference the varying methodologies make their own instructiona plans and units. Emphasis will be placed on incorporating a variety of teaching strategies and standards while stressing both content skills and language skills.

## Prerequisite

EDSE 331
EDSE 340
ethods 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 econdary stage students, this is in additition to profession achers star. The course 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 opportunitie to develop teaching performance through applications and field experiences. The course also develops skills practices. This course includes a field-based componen.

## Prerequisite:

EDSE 331 AND EDSE 332

## EDSE 341

ethods I: Instructional Strategies for English redit Hours: 3
Candidates will study goals, methods, and materials ppropriate for teaching secondary courses in Englis ESL, EFL), with special emphasis on the Curriculum (ESL, EFL), with special emphasis on the Curriculum learn a range of research-based strategies for designing and delivering effective ESL/ EFL instruction in the
secondary classroom. The differences between the Advanced and Foundation Curriculums for the State o Qatar National Curriculum Standards and the changes includes a field-based component.

## Perequisite

EDSE 331 AND EDSE 332

## EDSE 342

## Methods I: Instructional Strategies for Islamic Studies

 Credit Hours: 3he diploma candidates will study in this course the biectives, and they will learn how tharacteristics and As well, they will learn the teaching skills needed for the teaching profession; they will also learn the modern eaching methods and strategies that emphasize positive earning 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 ecitation and Tajweed of the holy Quran. This course includes a field-based component

Prerequisite:
EDSE 331 AND EDSE 332

## ESE 343

Methods I: Instructional Strategies for Social Studies Credit Hours: 3
andidates will study goals, methods, and materials appropriate for teaching secondary level courses in socia studies. Students will learn research-based methods of effective instruction in the knowledge and skills related to 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 reparatory/secondary levels ourses in science, with special emphasis on the Curriculum Standards for the State of Qatar, Science. 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 <br> Methods I: Instructional Strategies for Physics

 Credit Hours: 3Candidates 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 inquiry, learning cycle models, project and problem-bas laboratories. The differences between the Advanced and Foundation Curriculums for the State of Qatar National Curriculum Standards and the changes in strategies that requires will be explored. This course has a field-based component
Prerequisite:
EDSE 331 AND EDSE 332

## EDSE 346

Methods I: Instructional Strategies for Chemistry Credit Hours: 3
Candidates will study goals, methods, and materials appropriate for teaching secondary levels courses in Chemistry, with special emphasis on the Curriculum Standards for the State of Qatar, Science. Topics will
include constructivist learning theories, discovery include constructivist learning theories, discovery learning, 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 requires will be explored. This course has a field-based component

Prerequisite:
EDSE 331 AND EDSE 332

## EDSE 347

Methods I: Instructional Strategies 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 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 equires will be explored. This course has a field-based component.

Prerequisite:
EDSE 331 AND EDSE 332

## EDSE 460

## ethods II:

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 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 leveloping the learners' skills in research, analysis, and develops their reflective skills about their professional practices. This course includes a field-based component.

## Prerequisite:

OSE 340
EDSE 461
Methods II: Inquiry and ICT for English ours: 3
Candidates will study goals, methods, and materials appropriate for teaching secondary level courses in English. The differences between the Advanced and Foundation Curriculums for the State of Qatar National Curriculum Standards and the changes in strategies that are required will be explored. Candidates will learn how o conduct action research, initiate and guide student research, and to use ICT in English teaching. This course This course requires eight hours of field experience.

## Prerequisite

EDSE 341

## EDSE 462

Methods II: Inquiry and ICT for Islamic Studies redit Hours: 3
B.Ed. candidates will study methods of teaching the arious Islamic Education branches that include: Hadit and the Prophet's Biography (Sirah), Creed (beliefs), objectives and the teaching principles and procedures. As well, they will be familiar with the strategies of using
technology in teaching Islamic education, as well as
the role of the evaluation and assessment in Islamic he role of the evaluation and assessment in Islamic of the Islamic education teacher and finally how to undertake research in Islamic education. This cours includes a field-based component.

## Prerequisite: EDSE 342

## EDSE 463

Thods II: Inquiry and ICT for Social Studies

## redit Hours: 3

andidates will study goals, methods, and materials appropriate for teaching secondary levels courses in socia luales, with a special emphasis on the use of ICT in socia studies instruction. The course will also include the use faction research to inform instruction; and strategies to encourage, design, mentor and assess student research This course includes a field-based component.

## Prerequisite:

EDSE 343

## EDSE 464

## Methods II: Inquiry and ICT for Mathematic

Credit Hours: 3
The course will focus on student-centered methods in teaching mathematics. Special attention will be devoted to equipment such as computer-aided instruction and mathematics laboratories to stimulate discovery learning The course will also include the use of action research to assess and inform instruction and strategies to teach, encourage, mentor, and assess student research. This course has a field-based component.

## Prerequisite:

EDSE 344

## EDSE 465

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 to inform instruction; and strategies to onction research mentor and assess student research. This course include a field-based component.

## Prerequisite

## EDSE 466

 Methods II: InCredit Hours: 3
Candidates will study goals, methods, and materials appropriate for teaching secondary levels courses in Chemistry, with special emphasis on the Curriculum Standards for the State of Qatar, Chemistry. Topics will include the use of ICT in Chemistry; use of action research to inform instruction; and strategies to encourage, design, mentor, and assess student research. This course include 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 oo inform instruction; and strategies to encourage, design, mentor, and assess student research. This course includes a field-based component.

## Prerequisite

## EDSE 491

Student Teachin
Ten weeks of observation and participation in classroom activity; supervised teaching in an independent school Candidates will be assigned a mentor teacher at the school and university supervisors. Instruction of candidate Qatar National Professional Standards for Teachers. nstructional activities will be designed using the Qatar Core Curriculum Standards. This course has a significant field-based component.

## EDUC 100

Photography
redit Hours:
se focuses on the basic concept of digital 2) handling of the digital camera 1) photography literacy, digital images.

## EDUC 200

## Credit Hours: 3

This syllabus was designed to help Qatar University ludents be aware of the basic educational concepts and and issues directly related to the education field. These ssues and problems are considered a foundational introduction to understand education issues and topics at the local, regional and universal levels.
It also aims at helping students acquire the skills of recognition, understanding, analysing, and justifying those problems logically and critically. This is in turn will anareness 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 hurried universal innovations.

## EDUC 201

## Research Methods

Credit Hours: 3
This course is designed to help undergraduate students understand what research is, how it is conducted, and ths place in academic disciplines. The focus will be on assisting students in developing practical research skills and strategies to enhance academic and professional success. Major emphasis will be on helping students the different research paradigms and their implications for doing research. Another focus will be on assisting students with developing the ability to effectively prepare a research proposal. Other course topics include research ethics, experimental and non-experimental research, and acquiring electronic and non-electronic information resources for research purposes. Delivery methods used in this course will integrate active and experiential activitie utcomes will be assessed using a multidimensional approach.

## EDUC 203

## Family Relationship

Credit Hours: 3
This course provides students with a range of knowledge, skills, and positive attitudes towards the family and family 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 childrearing during different developmental stages. The role of family organizations in helping families address marital issues and problems is also addressed

## EDUC 310

## dations

 Credit Hours: 3This course has been designed to acquaint the learners with the progress of education in Qatar, including schools and the various elements that impact education and learning, such as the family and society. Learners will also become acquainted with the roles expected they may be expected to ply within the initiative of educational progress in Qatar through examining some of the issues related to he initiative and the responsibilities of teachers.

## EDUC 311 <br> EDUC 31

## Applications in

This course provides an introduction to the field of Second language acquisition and learning, an intricate process tha involves the dynamic interaction of individual and social variables. It considers a wide range of theories, models, process. Participants are guided to evaluate and consider the implications of different perspectives for second language teaching in a variety of contexts.

Prerequisite
EDUC 313

## EDUC 312

Curriculum and
Credit Hours: 3
This course engages participants in examining curriculum heory and models and provides experience in designing ndividual lessons, units, and assessments that promote he 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 This course includes a field-based component.

## EDUC 313

## Developing Literacy in Childre

 Credit Hours: 3This course will provide an overview of the history, current research, and issues in language acquisition in both naturalistic contexts and classroom settings and the It also includes the identification, evaluation and use of different genres of literature in teaching children.

## Prerequisite

EDUC 315 AND EDUC 310 AND EDUC 31

EDUC 314
echnology for Childre
edit Hours:
his course provides an introduction to basic computer using a computer, using basic software, accessing and saving data, basic use by children of spreadsheets, databases and word processing. Participants in this
course will learn about developmentally appropriate use of echnology with children and how to evaluate and select hardware and software to support the early childhood and primary programs.
requisite
EDUC 310 AND EDUC 315 AND EDUC 312

## EDUC 315

Child Development \& Learning
redit Hours: 3
his course reviews the literature on children's biological, motor, perceptual, cognitive (including intelligence), Child development history, theory, and research strategies will be discussed, as well as the effect of family, peers, media, and schooling.

## EDUC 316

Classroom Managemen
Credit Hours:
This course will explore methods to create a positive that lead to effective eviearning and safety fablish routines t will examine theories and research-proven strategies to manage student behaviors to promote learning and ways 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 aims at introducing candidates to psychological, environmental, and cultural conditions that contribute to mild/moderate disabilities. It covers etiology, haracteristics, development, prevention and interven development in academic, social, career, behavioral, medical, psychological, physical, and health conditions of individuals with mild/moderate disabilities.

EDUC 318

## ntegrating Visual Arts

## Credit Hours: 3

his course teaches how to integrate the visual arts and infuse it across the curriculum. It acquaints students with supporting integration of the visual arts with other subjects will be examined. The course also has a clinical aspect in which students design and execute lessons, thematic units, and activities to demonstrate understanding of the concepts as well as ability to carry them out in the class room

Prerequisite
EDUC 310 AND EDUC 315 AND EDUC 312

## EDUC 320

## Human Developm

This course reviews the literature on child biological motor, perceptual, cognitive (including intelligence), Child development history, theory, and research strategies will be discussed, as well as the effect of family, peers, media, and schooling

## EDUC 481

## Sudent Te

Credit Hours: 9
his course will provide ongoing mentoring and reflection during a 10 -week Student Teaching experience and the 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 Teac <br> -Arabic Studies

his course will provide ongoing mentoring and reflection during a 10 -week Student Teaching experience and the our weeks preparation for that Student Teaching. Topics or study will emerge from interns' authentic concerns and interests, from the university supervisor's classroom observations, and from mentor teacher suggestions 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 for study will emerge from interns' authentic concerns and interests, from the university supervisor's classroo 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 Teach

## Credit Hours: 9

during a 10 -week Student Toing 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 This course requires a significant number of field hours.

## ELEC 201

## Electric Circuits <br> Credit Hours: 3

Basic Concepts: Voltage, current, power, and energy. Independent and dependent voltage and current sources. DC Circuits Analysis: Ohms law, Kirchhoff's current and voltage laws. Series and parallel DC circuits' analysis,
nodal analysis, and mesh analysis. Superposition, source transformation, and maximum power transfer theorems, Thevenin's and Norton's theorems. Capacitance and Inductance: series and parallel connections of capacitors and inductors. AC Circuits Analysis: Sinusoidal sources, rms value, phasor representation, complex impedances. Kirchhoff's laws in the phasor domain, parallel and series AC circuits. Experiments will be conducted to support the course incluaing the computer software for circuit

Prerequisite:
MATH 102 Concur. AND PHYS 193 Concur.

## ELEC 202

## Electric Circuits

Credit Hours: 3
First \& Second-Order Circuits: Source free for series and parallel RC, RL, and RLC circuits. Step response of series and parallel RC, RL and RLC circuits. AC Circuit
Analysis Theorems and Techniques. AC Steady state power calculation and power factor correction: Poly-phase circuits, balanced and unbalanced three-phase circuits. Magnetically-Coupled circuits and mutual inductance:

Transformers. Series and Parallel Resonance: Passive filters. Fourier analysis: Response of electric circuits to for non-sinusoidal signals. Laplace transform and its application to First \& Second-Order circuit analysis. Two-port networks: Different representations of two-por networks, interconnections of two-port networks.

## Prerequisite ELEC 201

## ELEC 203

## Electric Circuits II

Credit Hours: 1
selected experiments are performed, these including: Response of RL and RC circuits; Series and Parallel Response of RLC networks; Measurement of average and $r m s$ values; Sinusoidal Steady State Analysis using Circuits techniques; Three-phase circuits; Measurement o three-phase power; power factor correction, etc.

Prerequisite:
ELEC 202 Concu

## ELEC 231

## Fundamentals of Electronics

 Credit Hours: 3Semiconductor Materials and PN Junction: Forward biased, reverse biased, and I-V relationship. Diode and Zener Diode Circuits: DC analysis, models, and structure, biasing, and I-V relationship. DC analysis of transistor circuits. Basic transistor applications: Switch digital logic, etc. Basic transistor amplifier configuration. Design and applications. Field Effect Transistor: MOSFET, DC circuit analysis. Basic MOSFET applications: switch, digital logic gates, and amplifiers.
Prerequisite:

## ELEC 201

## ab for Electronics

## Credit Hours: 1

Selected laboratory experiments for characterizing diodes and transistors, and designing and testing electronic circuits that employ diodes, BJTs, and MOSFET.

## Prerequisite:

Prerequisite:
ELEC 234 Concur

## ELEC 234

Electronics I
Credit Hours: 3

Review of semiconductor physics, PN junctions, Diode circuits, Special diodes, Bipolar junction transistor (BJT) ), DC analysis of depletion and enhancement MOSFET circuits, small signal analysis of MOSFETs and JFETs.

## Prerequisite ELEC 201

ELEC 261
Digital Systems Design
Credit Hours: 3
Number systems. Boolean Algebra. Combinational Logic Design. Logic Minimization Techniques. Sequential Logic Design. State minimization Techniques. Sequential Circuit mplementation. PLA

## ELEC 262

Digital System Design La
Credit Hours: 1
Selected experiments examining logic devices and circuits, and including a final design project, to accompany and complements the lecture course.

Prerequisite:
ELEC 261 Concur

## ELEC 263

## Computer Arc

Credit Hours: 3
 Computers. CPU description at the instruction level for organization. CPU types. CPU design: Register transfe anguage, Hardwired and micro-program control, CISC and RISC processors. Instruction and hardware study a commercial 8-bit microprocessor (e.g. Intel 8088) Computer Memory, Input and output devices.
rerequisite
ELEC 261
ELEC 299
Electrical Engineering Seminar
Credit Hours: 0
Selective weekly seminars given by the faculty and invited peakers from the industry Topics include contemporary engineering issues, ethical issues, engineering skills, and various other issues that help students in their future careers.

## LEC 311

Electromagnetics

Credit Hours: 3
Electromagnetic phenomena explored in moder applications, including communications, circuits, powe concepts covered are: Differential and integral forms o Maxwell's equations and their physical meanings. Solution of Maxwell's equations for non-time varying fields; Solution of Maxwell's equations for time-varying fields; traveling waves, refraction, reflections, and Poynting's theorem; Uniform plane waves, transmission lines, and waveguides Electromagnetic radiation and introduction to antenna heory.

Prerequisite:
MATH 217 AND MATH 385 AND PHYS 193

## ELEC 312

Electric Machines
Credit Hours: 3
Magnetic Circuits: Magnetic equivalent circuit, analogy with electric circuits, losses, linear and non-linear phase transformers, principle of operation, equivalent circuit, equivalent parameters determination, three phase transformers, connections of transformers, autotransformers, harmonics. Principles of operation of DC machines. Electromechanical Energy Conversion Devices Principle of energy storage and conversion, force and emf production, torque production in rotating machines. Three Phase Induction Motors: Construction, theory of ope quivalent circuit, starting of induction motor, speed operation, Equivalent circuit and power flow, power and orque characteristics, starting, synchronization, powe factor control, speed control.

Prerequisite
LEC 202
ELEC 313

## Electric Machines

Transformer: Open and short-circuit tests, polarity test, oading characteristics for efficiency and regulation determination. DC machines: starting and loading tests. Induction Motor: Starting tests, no-Load and locked rotor tests, Ioad test. Synchronous Machines: No load and short also be used to handle tedious calculations arising in som electric machine experiments.

Prerequisite:
ELEC 312 Concu

## ELEC 32

## Credit Hours: 3

Credit Hours:
ower System Components. Per unit system, System
podeling and Impedance diagram. Transmission Line: eactive compensation, different models representation; Short, medium and long lines, ABCD parameters,
cascade connection and parallel operation of transmission nes. Power Flows: Bus admittance matrix, power flow equations, solution of power flow equations, and control of power flow. Symmetrical Fault: Calculation of short-circuit urrent, short- circuit capacity

## erequisite

LEC 202

## ELEC 333

## Electronics En

redit Hours: 3
perational amplifiers design and applications, Differential mplifiers and multistage amplifiers, Frequency response filters and tuned amplifier circuits design and applications, Analysis and design of signal generators and power amplifiers.

Prerequisite
ELEC 231

## LEC 334

## Credit Hours:

elected experiments examining differential and eperational amplifiers circuits design and applications. Fundamentals and design concepts of electronic circuits including filters, oscillators, and power amplifiers. Use of mputer simulation for analysis and design of electronic circuits.
rerequisite:
ELEC 333 Concur.

## ELEC 34

Communications Engineering
redit Hours: 3
An introductory course to analog and digital
ommunication systems. Distortionless analog 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 digita
communications; amplitude, phase and frequency-shift keying; signal constellations. Random processes, random

Prerequisite:
ELEC 351 AND GENG 200

## ELEC 342

## Communications Engineering Lab

Credit Hours: 1
Construction and testing of analog and digital modulation circuits. Emphasis on spectral analysis, bandwidth ooked loops. Frequency and phase modulations. Sampling and quantization.

Prerequisite:
ELEC 341 Concur

## ELEC 351

## Signals \& Systems

Credit Hours: 3
ontinuous and Discrete Time Representation of Signals and Systems: Signal and system properties. Systems of Systems. Laplace Transform: Transfer functions. Z-Transform: Transfer functions. Fourier series, and Fourier transform, frequency response.

## Prerequisite <br> ELEC 201

## ELEC 352

Control Systems
新
xamples of automatic control system. Block diagrams reduction. State-space modeling. Open-loop and closed-loop systems, feedback systems characteristics. ime domain analysis of second-order systems and wo-dominant-pole model. Performance Specifications. Stability, transient response, and steady-state errors. Roo ocus analysis and design. Frequency Response Analysis and Design: Nyquist stability criterion, gain and phase margins, compensation using Bode plot Pole pacement design.

Prerequisite:
ELEC 351 AND MATH 217

## ELEC 364

Microprocessors
Credit Hours: 3
Credit Hours: 3
Microprocessors and micro controllers evolution.

Architecture of a selected 8 -bit microprocessor (e.g. 8088 microprocessor). Assembly language and its software 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 O interfacing and USART. Hardware interrupts, basic iterrupt interface and programmable interrupt controller PIC). Direct memory access (DMA)

Prerequisite:
ELEC 263

## ELEC 365

Microprocessors Lab
redit Hours:
group of experiments to emphasize the practice of assembly language programming, the data acquisition ftware technique, and he hardware for data acquisition systems.

ELEC 364 Concur.

## ELEC 366

## mbedded Systems

Credit Hours: 3
A introduction to microcontroller architecture, instruction ets, C language compilers, microcontroller interfacing crocontroller peripherals, and embedded system systems. Simulation and Emulation of specific families o microcontrollers.

## Prerequisite:

EC 261 AND GENG 106 AND EIEC 26
ELEC 367
mbedded Systems Lab
redit Hours: 1
Selected experiments and course project that complement he 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
Prerequisite:
ELEC 366 Concur

## LEC

ensors and Instrumentatio

Measurement systems: components and behavior. leasurement \& error: accuracy, precision, statistical capacitance measurement. Common industrial sensors 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 sed to analyze, acquire and present data.

Prerequisite:
ELEC 333 Concur

## ELEC 375

Biomedical Engineering
Credit Hours: 3
art 1: Biomedicine and Electrical Engineering; Human physiology and anatomy, biosystemsand modelling 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 or removal of artefacts; Biomedical Event detection, characterization and automatic diagnostic; Frequency decision; Lab experiments.

Prerequisite:
ELEC 351 AND ELEC 371

## ELEC 399

## Practical Training


upervised 8 weeks training period at any approved engineering concern (consulting, contracting, industrial, experience at the work place. Evaluation is based on daily performance, supervisors' input, student's report, and a short presentation.

## ELEC 415

ower Electronics \& Drives

## Credit Hours: 3

Power Semiconductor Devices, AC/DC converters, Choppers, Inverters, Cycloconverters. Elements of Electric Drives; DC motor drives including conventional, brushles and modern permanent magnet motors; AC motor drives
including induction and synchronous motors.
Prerequisite
ELEC 312 AND ELEC 333

## ELEC 416

## Sel Top in Elect Mach Drives

## Credit Hours: 3

Selected topics in the field of electric machines and drives that deals with new trends and practical issues

## Prerequisite

ELEC 312

## LEC 422

## Advanced Power System Analysis

 Credit Hours: 3Network Calculations: Node elimination, direct determination of bus impedance matrix. Symmetrical components and Sequence networks, Unsymmetrica fransient stability voltage stability Reactive power and voltage control, HV Protection.

## ELEC 321

ELEC 423
ectric Power Distribution Systems
Electric Power D
oad characteristics. Distribution transformers.
Underground cables. Primary and secondary distribution
systems. Power losses and Voltage regulation. Voltage dip
due to motor starting, LV distribution protection. Reactive power compensation, Distribution generation. Electricity tariffs. Introduction to power quality.

## Prerequisite

ELEC 321

LEC 424
Credit Hours:
Electric Load Forecasting; Techniques used for
forecasting, short term load forecasting, long-term load forecasting. Economic dispatch and unit commitment, lea error squares algorithm, State estimation, Power system load frequency control and Automatic generatio control.

Prerequisite
LEC 32
ELEC 425

## Selected Topics in Power System

 redit Hours: 3that deal with new trends and issues in
Power System and High Voltage Engineering

## ELerequisite

## ELEC 438

## elected Topics in Electronics

redit Hours: 3
 new trends theoretical and practical issues.

## Prerequisite ELEC 333

## ELEC 444

## Digital Communications

redit 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 correctin 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

Selected topic in the field of Communications Engineering that deals with new trends and practical issues.
Prerequisite
ELEC 341

## ELEC 447

Wiredess Comm
Introduction to Modern wireless communication systems. Cellular radio fundamentals: cellular design concept, interference and capacity, cellular geometry, frequenc re-use, cell splitting and sectoring, trunking models and raffic evaluation. Mobile radio propagation: small scal large scale fading and diversity techniques. Wireless strategies, power control. Modern modulation techniques or wireless communication systems. Multiple access echniques. Introduction to wireless security mechanisms introduction to common wireless networks. Wireless system standards: 1G, 2G, 3G, and 4G standards, GSM

## 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 yapunov stability, and nonlinear control system design, Intelligent control: fuzzy sets and systems, fuzzy control systems design

## Prerequisite ELEC 352

## ELEC 456

Digital Signal Processing
redit Hours: 3
eview 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; R Digital filters; Digital Spectral Analysis; Periodogram and Correlogram. Time-Frequency analysis and the pectrogram; signal enhancement; applications to voice EFG and ECG analysis• introduction to 2D signals and images.

Prerequisite
ELEC 351

## ELEC 457

Selected Topics in Control System / Signal Processing Credit Hours: 3

processing that deals with new trends and practical issues
Prerequisite
ELEC 352

## ELEC 469

omputer Networks
Credit Hours: 3
etwork classifications, architecture and topologies.
ayered reference models. Functional description of
layers. Switching and routing. Network protocols. Network control: traffic management and congestion. Fundamental
of network performance analysis. Examples of networks
such as the Internet, ATM.
Prerequisite
ELEC 341 AND GENG 106

## ELEC 471

Credit Hours: 3
Selected topics in the field of Computer Engineering that deals with new trends and practical issues.

## Prerequisite

## ELEC 364

## ELEC 472

Credit Hours: 3
Overview of Mobile Applications, Mobile Business (m-Business), and the Wireless Internet. Wireless Technologies, Wireless transmission, Wireless Networks, Satellite Systems, Wireless LAN, Bluetooth, and Wireless
Application Protocol (WAP) Mobile Programming Application Protocol (WAP). Mobile Programming NET, ASP .NET, Mobile.NET, Integrated Development Environment (IDE) Visual Studio .NET, Extensible Markup anguage (XML), Web Matrix. Application Development for Wireless Devices.

## Prerequisite

rerequisite:

## ELEC 481

ower Elect Credit Hours: 3
nergy Semiconductor and their impact on environment. Powe and conductor Devices. DC/DC Converters principle and design. Inverters concept of operation, design, 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 aboratory experiments and computer-based exercises are conducted to enhance and consolidate the understanding f power electronics \& renewable energy principles and applications

## Prerequisite



## 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 Several selected laboratory experiments, computer 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:

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 contro of induction motor: Basic principles for speed control current source speed control. Braking of electric motors (dc and induction motors). Several laboratory experiments and computer-based exercises are conducted to enhance and consolidate the understanding of electric drives principles and applications.

## Prerequisite:

## ELEC 312 AND ELEC 352

## ELEC 484

## Industrial Contro

## 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 485

troduction to Robotic
Credit Hours: 3
The purpose of this course is to introduce the basics of mathematical modeling, design, planning, and control of
obot systems. In this course, student will learn relevan results from rigid body transformation and geometry, forward and inverse kinematics, velocities and Jacobian robot design, and actuation and sensing devices.

Prerequisite:
ELEC 352 OR MECH 361

## ELEC 486

## Advanced Biomedical Systems Engineering

 Credit Hours: 3Review of bio-medical applications; system theory approach to modeling; hon-invasive determination of 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 an 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 Design, Biomedical electronics, biomedical imaging

Prerequisite
ELEC 375

## ELEC 488

Medical Imaging System
redit Hours:
Part 1) Magnetic Resonance Imaging (MRI): MR signal, magnet technologies, RF coils and circuits, simulation experiments. Part 2) Ultrasound: generation and interaction with tissues, piezoelectric transducer design and software simulation, ultrasound systems. Part 3) X-ray: X-ray tube, X-ray attenuation, Computed Tomography scanners. Part 4) Nuclear Medicine: Basic radioactivity, detector design and simulation experiments processing: theory and lab experiments. Part 6) automatic medical image interpretation and diagnosis: including design and lab component.

Prerequisite

## ELEC 49

dependent Stud
study and conduct a special assignment or to participate in an internal or external research project

## ELEC 498

## Senior Design

Credit Hours: 3
The main Objective of the project is to train the student how to tackle a specialized topic in the electrical department faculty members. The student is required to demonstrate his ability to: conduct a literature survey; erform the relevant calculations and implement his design. A well-referenced report constituting a theoretical background, design, theoretical results, conclusions and commendations has to be submitted by the end of the project.

## ELEC 499

Senior Design
Continuation of ELEC 498.

## Prerequisite <br> ELEC 498

## ENGL 099

## Language Skills

he course is designed to develop the students listening omprehension, pronunciation and speaking skills. It aims at increasing the student's fluency, accuracy and confidence in dealing with listening and speaking material and situations.

## ENGL 100

## anguage Skills

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

edit Hours: 3
he course is designed to introduce students to the rocess of reading and oral communcation It provides e students with a wide range of reading and oral communication skills/strategies that help them become fficient readers and speakers of English. The cours
cuses on reading comprehension and vocabulary
development in context, listening comprehension, pronunciation and speaking skills. Course material and extbooks will be sele to reflect the pedagogica content of the course.

## ENGL 11

## 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 errors resulting from confusing the two modes) and to conventions of punctuation

## Prerequisite

ENGL 110 OR ENGL 202

## ENGL 112

## Grammar I

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 throughou he series of grammar courses.

## ENGL 113

## Grammar II

This course continues Grammar (1) examining in addition modality, negation, the use of determiners and major syntactic and collocational properties of phrasal verbs. The students are also encouraged to practice question formation.

Prerequisite:
ENGL 112 OR ENGL 124

## ENGL 114 <br> 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 of ideas and in organizing them into paragraphs showing clear topics, developmental points and conclusions.

## ENGL 115

## Credit Hours: 2

Building on the paragraph-writing skills of Writing (1), paragraphs. The students will develop their abilities fur paragraphs. The students will develop their abilities furthe them using suitable transitions. The course will move toward more formal outlining 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 cratting strong supporting paragraphs. The course
will help the students to learn how to research, evaluate use and cite sources and learn a variety of techniques for crafting their own writing through two principal activities: the process of their own writing and analysis of the writing of others. Students will receive instruction on summarizing using transition signals/paragraphs, paraphrasing, using different types of quotes and correcting common sentence errors. All material is based on the writing standards established by the Modern Language Association (MLA)

\section*{ENGL 151

\section*{ENGL 151

## ENGL 151 <br> redit Hours:3

This course introduces students to a wide variety of authentic texts from different sources including newspape 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 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 Analys

Credit Hours: 3
his course is designed to provide students with an understanding of the way in which words and sentences are constructed. It will cover the fundamental issues of
sentence analysis, such as: word classes; clauses and units within the clause; free and bound clauses; and the
distinction between form and function. Different ways of epresenting analysis will be covered, but the emphasis 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

This course continues the work started in Essay Writing . It deals in more detail with the different types of essays, some of which are of immediate relevance to the sudents' work in other courses such as the and and the and argumentative essay types, and others introduce
student to critical thinking and develop their analytical skills. This course will enable students to learn how to esearch, outline and write essays and also it enables hem to judge essays written by others.
Prerequisite:

## ENGL 150 OR ENGL 203

## ENGL 155

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, specific language they speak. Topics such as the structur 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

ntroduction to Literature I
Credit Hours: 3
his course introduces plays and a narrative poem from career Class discussions will involve clos analysis of Shakespeare's language, his culture, and the arious 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 ove, friendship and reciprocal obligation; revenge and moral redemption.

## ENGL 157

introduction to Linguistics
Credit Hours: 3
The course introduces students to the basic concepts phonology, morphology, syntax, and semantics, as wel
as to some of the other subfields of linguistics, such as ssycholinguistics, sociolinguistics and historical linguistics. English and Arabic, are used to illustrate these poncepts. The course helps students approach language in a scientific way.

Prerequisite
ENGL 155

## ENGL 158

## Literature

## edit Hours:

his course builds on knowledge and skills gained from GGL156. It surveys literature from the eighteenth entury to the present. Students will learn about the rich canonical tradition and how each generation of writers has responded to it. The course will help students to learn key heoretical approaches and instil some of the essential study skills they need for their undergraduate programme
rerequisite:
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 bas spoken and written communication skills. The cours imants are encouraged to become independ approach. nuage learners and piy crical thi variety of motivating themes. Course activities include istening to authentic dialogues, table/data completion, acquiring vocabulary, group discussions, and paragraph and/or text writing.

## ENGL 201

## nglish Langu

This course is designed to enable students who have completed English 200 to use English effectively for muricative purposes. It offers the opportunity for students to further develop their language skills: listening, speaking, reading, and writing in a systematic way and in context. Students in this course are encouraged to apply tal
 conducting interviews, oral presentation and further eading.
Prerequisite
ENGL 200

## ENGL 202

## English Langua

redit Hours: 3
his course is designed to help students improve their prepared for the more advanced writing and researc prepared for the more advanced writing and research
skills introduced in English 2. Emphasis is placed on understanding information from authentic texts. Academic vocabulary is taught through inference and context. A collaborative community environment is encouraged, whereby feedback to and from their peers. Throughout the emester, students create and develop an e portolio

## Prerequisite

ENGL 004 OR ( (ENGL 040 OR ENGL C002 OR Total for Integrated Core 400 ) AND ( ENGL 041 OR ENGL R002 OR ESL Reading Skills 100 ) AND (ENGL 042 OR ENGL W002 OR APL for Writing Workshop 225) ) OR TOEFL Inst Testing Prog 500 OR Int Eng Lang Test Syst-IEL
5.5 OR TOEFL Internet-based Test 061 OR TOFFL 5.5 OR TOEFL Internet-based Test 061 OR TOEFL 400 AND ESL Language Use 100 AND ESL Reading Skills 100).

## ENGL 203

## English Language II Post Foundatio

 redit Hours: 3English 203 is an advanced academic writing course which provides an opportunity for students to learn and
practice the skills needed for a guided university-level academic paper related to their field of study. The course emphasizes the development of academic writing skills a well as the ability to read and think critically. Students will learn to use the library and appropriate online resources to ind 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 different society This course will chat the thistory of these and society. This course will chart the history of these attem 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
rule ordering are dealt with. A discussion of the major heoretical frameworks in the field will cover theories such as feature geometry and underspecification, in addition to

Prerequisite:
ENGL 157 OR ENGL 373

## ENGL 220

## American Literatur

Credit Hours: 3
his course introduces students to both the contexts and from the eighteenth- to the twentieth century We will explore differing versions of American identity as they have developed through time and across the genres of prose narrative, poetry, and drama. From Walt Whitman's proud assertion of an American selfhood in "Song of Myself" (1855) to Sylvia Plath's struggle with what it means to be an American woman, this course will engage with major and its inheritance, the creation of national identity, gende America, the idea of the frontier and American gothic.

Prerequisite:
ENGL 158 OR ENGL 248
ENGL 226

## listory of English Languag

redit Hours: 3
The course is designed to introduce student to a history of the English language, focusing on its origins and development in the areas of sound (vowels and consonants), spelling, form and syntax. It will cover Old English, Middle English and Modern English. The course will also familiarize students with methods used y linguists to recognize, describe and analyze language change.

Prerequisite
NGL 157 OR ENGL 373

## ENGL 230

Professional Writing
Credit Hours: 3
This course teaches key rhetorical concepts that help students shape their professional writing ethically appropriately for audiences, and in a variety of and deliver effective business communications, including ormal 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 233

## Language and Computers

Credit Hours: 3
This course aims at familiarizing the students with the basic relationship between linguistics, computing 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 and rammar checkers spam handling text -to - spee 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 aim to enrich their <br> \section*{ENGL 234 <br> \section*{ENGL 234 <br> <br> ENGL 234 <br> <br> ENGL 234 <br> Language and Gend}

This course focuses on how the social lives of women and men in a society interact with the ways language(s) is structured, learned and used; how people talk to the opposite sex in face-to-face interaction; and how we read and write. Topics covered include gender differenc linguistic forms, nonverbal communication and affects boys and girls as they learn to talk. These issuer are considered in terms of theoretical and historical perspectives. References will be made to studies in linguistics and particularly sociolinguistics, anthropology, sociology, psychology and women studies.

## ENGL 246

## English Phone

Hours: 3
his course introduces students to basic practical and escriptive levels of the English sound system and to such principles in other languages. With regard to phonetics, he course covers the articulatory tract and its use in
vowels are classified according to their articulation, an students are taught phonetic transcription. Attention in mastering English pronunciation. With regard to phonology, students study the significant sounds of anguages - phonemes - and the phonological processes by which the pronunciation of such sounds is affected when they are produced in sequence with other sounds allophonic variation. In addition to segments - vowels and consonants - the course will investigate phoneme istribution, syllable structure, and stress and general intonation.

## NGL 249 <br> Nriting

## Writing

This course introduces students to the basics of essay writing in English. Students will learn and practice how to develop and write effective sentences, and how to organize these sentences into a cohesive paragraph process, including brainstorming developing a topic, adding relevant details, and writing and editing paragraphs. Students will participate in activities that teach a range of writing techniques, and stimulate critical thinking skills.

## ENGL 250

## Credit Hours: 3

This course provides an opportunity for students to continue to increase their English language proficiency but include a diverse range of articles from authentic texts oo that critical thinking, reading strategies, and fluency are developed. Both semi-formal and formal writing skills are incorporated in writing times so that students are amiliar and flexible with texts required for college study and different majors. Vocabulary, grammar, listening and speaking are extended through integrative, immersive ctivities using highly interactive and collaborative and tools, All sessions are designed around the principle of active learning and student-centered practices.

Prerequisite:
ENGL 111 OR IBT 061 OR CBT 173 OR IELT 5.5 OR T02 500 OR ENGL 203

## NGL 251

## English for Communication II

Credit Hours: 3
Building on English 250, this course is an advanced

English Communication course with the main focus being reading and writing. It provides students the opportunity skills to prepare them for both college needs and future work demands. Diverse authentic academic models and situations emphasize the appropriateness of every task, culminating with a short term paper. Students gain information literacy skills, the ability to acknowledge sources and respect for intellectual property necessary for academic assignments. Flexible vocabulary, grammar, listening and speaking are extended through immersive activities using highly interactive sessions including All sessions are designed around the principles of active learning and student-centered practices.

Prerequisite:
ENGL 250

## ENGL 252

English for Bu
Credit Hours: 3
English for Business communication is an upper intermediate English communication course. The course is intended for students who are preparing for a career in business. The course focuses on high level reading, writing, listening and speaking. The course combines recent ideas from the world of business with a strong task based approach. The writing component includes business report writing The speaking component focuses on role plays of business meetings 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 involvement and learning.

## rerequisite

NGL 250 <br> \section*{ENGL 253 <br> \section*{ENGL 253 <br> ENGL 253 <br> English Communication for Law}

English communication for Law is an upper intermediate level English course. The course focuses on high-level writing and reading. The writing component includes the promotion of fluency and accuracy in Law discipline specific situations and law-related academic genres. authoritative sources. Interactions through dobates, authoritative sources. Interactions through debates,
role plays and various media enrich the course. The regular application of critical thinking pushes a student's boundaries to enhance understanding of both law discipline specific and legal contemporary materials.

## Prerequisite

## ENGL 250

## ENGL 301

## Syntax Credit Hours: 3

This course introduces students to the study of the theory of the syntax of human language and the methods of syntactic analysis. We begin with considering fundamental heoretical linguistic notions about the form of human language and general syntactic concepts and move towards identifying and classifying syntactic units: 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 our main learning vehicles in this course.

## Prerequisite

## ENGL 157 ORENGL 373

## ENGL 302

## Comparative Lit

Comparative literature is the critical study of literature dealing with two or more literatures, different in their cultural, linguistic or national origin. This course introduces tudents to the theory and practice as well as to the their command of new development in critical theory this course will enable student 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

This course introduces students to the study of language in is social context, focusing on uses and users of language. It tries to answer to a number of questions regarding the correlation between language and society, including the following: a) Who uses different linguistic forms and/or anguage varieties? b) Who do they use them with? c) Topics include sociolinguistic variation politeness, social identity construction, and language contact.

Perequisite
ENGL 157 OR ENGL 373

NGL 304

## Shakespeare

edit Hours: 3
his course will introduce plays and a narrative poem ord Chamberlain's Men and, later, The King's Men. 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 bligation- also in, relation to these issues, the class will examine domestic and political tyranny, revenge and mor redemption.

Prerequisite:
ENGL 158 OR ENGL 248

## ENGL 305

First Languag
edit Hours:
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 arious moral, poitical, and aesthetic issues raised in
the plays and poetry. The class will favour thematic over
chronological order of reading so that students can build a progressive examination of king and kinship, gende on a progressive examination of king and kinship, gend moral redemption.

## rerequisite:

ENGL 157 OR ENGL 373

## NGL 30

## Medieval Literatu

Credit Hours:
This course introduces students to the main canonic works of the medieval period (approx. 12th -15 th entury) 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.
rerequisite:
ENGL 158 OR ENGL 248

## ENGL 307

## sycholinguistic

This course introduces the study of language and mind It covers the main areas of this subfield: language processing, innateness and issues regarding the natur
of mind as a theoretical construct and as a way of talking. The course deals with the ways that various kinds of evidence are marshaled in support of differen mental models of how linguistic data is represented and processed. Evidence of language and mind with regards to anguage organization, structure, function, and breakdown, is considered.

ENGL 157 OR ENGL 373

## ENGL 308

## Renaissance to Restoration

## Credit Hours: 3

This course focuses on the literature of change in the seventeenth century, from edgy theatre of the likes of Ben Jonson and Thomas Middleton to the prose writings of eve. The first half of this course will take us through the 1630 s, the second half will focus on the period revolution and Restoration, and will include glances at eligious controversy, political pamphleteering, and the making of modern London.

## Prerequisite

## NGL 158 OR ENGL 248

## ENGL 309

Second Language Acquisition

## Second Languag

The course outlines and discusses the theoretical and empirical background concerning aspects of Second -anguage Acquisition (SLA). Some fundamental considerations of the nature of language and language earning will be discussed first. Then ideas and res hat have provided the framework for SLA will be and discussed in order to contribute further to our understanding of the process of foreign language acquisition.

## Prerequisite:

NGL 157 ORENGL 373

## ENGL 314

Augustan to Romantic
Credit Hours: 3
This course provides a study of English literature from he Restoration of Charles II to the throne of England in 1660 and ending with the ascension of Queen Victoria in 1837. This period witnessed the beginnings of

Enlightenment consciousness, the expansion of the British Empire, and the revolutions that gave birth to the moder poxpression to introspective reflection, and historical and cultural development from "Augustan Neoclassicism" to "Romanticism."

ENGL 158 OR ENGL 248

## NGL 319

## rmatics

The aim of this course is to examine the nature and scope of semantics. Attention will be paid to such topics as ontext, 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 - illustrated with examples from both English and Arabic.

Prerequisite
ENGL 157 OR ENGL 373

## ENGL 324

## Victorian Literatur

Credit Hours: 3
This course studies the literary production of the Victorian era. The general cultural and intellectual background of social and political changes of the times such as the industrial revolution, urbanization, political reform, the of the middle class, material and scientific progress, mass production, the transformation to modernity, among other changes. Overall, the course exposes students to the bod of literature in its literary-historical context of the second half of the 19th century

Prerequisite:
ENGL 158 OR ENGL 248

## ENGL 326 <br> oetry

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 the Medieval times through the Romantic period, to examines poets at the junction of poetry, and other literary genres. Artforms as paintings are utilized to provide a challenging approach. The course roots poems in their socio-historical contexts, offers innovative analyses, and provides an overview of current philosophical approaches.

## ENGL 327 <br> Discourse Analysis

Iscourse Analysis is the study of spoken or written, naturally occurring language use. While much of linguistic ocuses on abstract linguistic structure, this course will ocus on the things we do with language, including telling stories, holding a conversation, and carrying out forms of (like courtroom proceedings, doctor-patient consultation, classroom interaction, talk show radio chat). The patterns we find in discourse can tell us something about the social world around us.

Prerequisite:
ENGL 157 OR ENGL 373

## ENGL 328

Drama
This course introduces students to the genre of drama and its basic characteristics, beginning with the model of Greek tragedy and a study of Aristotle's Poetics. It will also introduce them to the evolution and development of English drama through its most significant phases. and overarching theme of man vs fate/destiny as well man vs. society.

## Prerequisite

ENGL 158 OR ENGL 248
ENGL 330

## The Short Story

This course is designed to introduce students to the genre his course is designed to introduce students to the of the short story and its various types. The texts are
selected from the works of well-known American \& Englis writers and vary in length, theme, and technique. Close reading and in-depth analysis of the stories will be applied o 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 nalytical essays-are all components of the course. Students are required and expected to read fully the critical thinking in study and discussions. The selection should include a variety of short story genres, types, hemes, styles, and techniques

Prequisite
ENGL 158 OR ENGL 248

## ENGL 332

## The Novel Credit Hours:

This course introduces students to the English novel as aliterary genre, exploring not only the various elements hat make up the novel (plot, characterization, time, voic or narrative perspective, narrative techniques, theme, etc.) but also its development in historical, cultural, and end matic contexts. Students also explore timeless mora introduction to the English novel and its development, he 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 'ew', agendas, or simply the lens through which they perceive the world.

## erequisite

ENGL 158 OR ENGL 248

## ENGL 353

## Sounds of Englis

Credit Hours:
An introduction to the sounds of English. Topics covered nclude: segmental phonology (the "lette" sounds English); syllable structure, stress, and intonation; the articulation of English sounds, including components of the man vocal tract that contribute to these sounds; basics about the different varieties of English (e.g., America nglish compared to British English); and differences etween the sounds of English and Arabic (e.g., English wels 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 English In mor sy English words and the processes that generate them. In yntax, it explores the structure and parts of sentences. or semantics, topics include meaning relations between exical items, semantic concepts incluaing sense relations, prototypes, semantic fields, idiomatic expressions, and
the relationship between word meaning and sentence meaning

## rerequisite

ENGL 157

## ENGL 370

## American Literature

## Credit Hours: 3

This course aims to introduce students both to major hemes and ideas in American literature and to significan American authors. Issues to be dealt with will include 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:
248 OR ENGL 156 OR ENGL 215

## ENGL 373

## ntroduction to L

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 nalyses and hypotheses, and semantic concepts. understand theoretical notions and learn how to approach language in a scientific way.

## ENGL 375

## Poetry

Predit 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 includes discussions of the genres of poetry, such as the folk and literary ballad, lyrical verse, the sonnet, satire, and ode.
Prerequisite
ENGL 248 ORENGL 156

## ENGL 390

## ociolinguistics

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

## wentieth Cen

This course is designed to introduce students to modernis poetry and prose. Modernism's challenge to literary form will be related to its historical, intellectual and ideologica contexts. Combining approaches to the experimental orm of both poetry and prose, the course will encourage tudents to relate the aesthetic concerns of modernist Writers from the Modernists canon such as Woolf, Joyce, Pound and Eliot will be studied, as well as lesser-known but equally influential figures such as H.D. The course takes an international perspective, reflecting modernism's wn transatlantic cosmopolitanism. Key concepts such s gender and politics will also be studied as they relate and influence modernist writing. Beginning with ourse allows students to trace the revolutions in poetic xpression throughout the twentieth century and how they reflect the changing ideologies of the

ENGL 158 OR ENGL 248
ENGL 400

## iterature

Credit Hours: 3
his course offers a survey of key women's writings from the medieval period until the twentieth century, and also involves the discussion and study of particular teminist themes. These include issues such as women self-image and finding a voice; definitions of female identity; challenging patriarchy \& traditional culture; the ole of gender in the production of literature; literary aralist creative works to influential foundational tracts.

## rerequisite:

ENGL 158 OR ENGL 248
ENGL 401
Speech Sciences
it Hours: 3
This is a comprehensive course, which teaches the core terial of the three areas of speech science: speech production, hearing, and speech perception. The course opens with a unit on basic research skills, techniques,
asic statistics. It then proceeds to the unit on Speech

Production, which addresses the anatomy and physiolog of speech. This course provides students with the ab, or to proceed to graduate studies in the speech sciences.

Prerequisite
ENGL216 OR ENGL 246

## ENGL 402

## ext and Film

This course provides an interdisciplinary study of literatur and film. It examines the relations in the context of word and image debates, interart discourse, theorie of adaptation, theoretical trends in the humanities, and the problem of turning texts into moving images. The course offers a theoretical introduction to questions of epresentation and issues of iconology, before dealing with the novel / film debate and theories of adaptation. The course explores different strategies of adaptation and

Prerequisite
ENGL 158 OR ENGL 248

## ENGL 403 <br> Field Methods

Credit Hours: 3
his 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 echniques 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 the students in a research paper which they submit at he end of the course.

Prerequisite:
ENGL 157 ORENGL 373

## ENGL 404

## Modernism <br> Credit Hours: 3

This course is designed to introduce students to modernis poetry and prose. Modernism's challenge to literary analysis. The course takes an international perspective eflecting modernism's own transatlantic cosmopocitanism. 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 ORENGL 248

## ENGL 406

## ost-Modernism

Credit Hours: 3
This course provides an introduction to postmodernism and its critics, focusing on novels and films. Learning ab concepts and techniques deployed in novels and films, effects. The course will include a discussion of a number fliterary concepts such as intertextuality, metafiction, selfreflexivity, parody, pastiche and collage. We will also explore how postmodern concepts and techniques can be raced in other disciplines such as architecture, visual arts m , and technological innovation

Prerequisite:
ENGL 158 OR ENGL 248

## ENGL 408

Post-Colonial Literature
Credit Hours: 3
his course introduces a clear definition of the field and an istorical account of its development, and culminates the pplication of this method of analysis to selected work
clants to the shift from history to
in turn brought the question of power, hegemony and
epresentation into focus. It also includes in the range of it inquiry the comparison of different types of art.

Prerequisite
NGL 158 OR ENGL 248

## ENGL 423

## Seminar in Linguistic

redit Hours: 3
his course provides students with the opportunity to read and discuss primary research articles in detail, on topic not covered in the program's regularly scheduled inguistics courses. The specific topic will be selected by he instructor. Students will read and discuss seminal articles on the topic chosen by the instructor. Student and lise le $p$ aticipatio in the meeting discussions.

## Prequisite

ENGL 157 OR ENGL 373

## NGL 42

## Modern Drama

This course analyzes modern plays from the late 19th and the 20th centuries. Selected texts of European drama are studied not only for their aesthetic traits bu also innovation. The most significant of these crises is he breakdown of traditions that defined individuals and heir relationships to society and culture. Modern dram
illustrates individual disillusionment with ideals and historical meaning. We will therefore consider what dram historical meaning. We has to offer now and in the future

Prerequisite:
ENGL 158 OR ENGL 248

## ENGL 425

Topics in Linguistics
Credit Hours: 3
The aim of this course is to introduce students to special and/or new-trends issues in the study of language at both with new developments in the field of linguistics witho having to change or modify the study plan. It is also mean provide the students with the chance to pursue a topic elevant 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 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 eviewed by the Depart

ENGL 157 ORENGL 373

## ENGL 426

## Children's Literatu

## Credit Hours: 3

This course will introduce students to the wide variety of literature for children, including poetry, plays, picturebooks and prose. We will look at the origins of children's nursery rhyme and song Students will study the differing approaches to the psychology literacy and individual development found in writing for children.

## ENGL 428

## Literature

credit Hours: 3
This course introduces students to special and/or newends in the study of literature. Students with have the hance to pursue a topic relevant to their academic program. Although this course is offered under the rubria of 'Topics in Literature', a specific topic is tagged on to it every time it is offered.
erequisite
ENGL 158 ORENGL 248

## ENGL 44

## English Syntactic Structure

Credit Hours: 3
This course introduces the students to the categories and principle structures of English syntax. The course reviews 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

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 anguage use in English, and identify features of coherlyin olve shethe prosody and others.

## ENGL 44

## Seminar in La

Credit Hours: 3
This seminar allows students to specialize in one of several areas of study: language and linguistics. Common data for a research paper, with students examining model and completing exercises. The later part of the course will take the form of tutorial groups, and presentations, according to specialization.

## Prerequisit

## ENGL 373 OR ENGL 310

## ENGL 445

## opics in Linguistic

This course provides an in-depth exposé 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 contac computational linguistics: computers and language developments in linguistic theory and more advanced issues of linguistic analysis.

Prerequisite:
ENGL 373 OR ENGL 310

## ENGL 446

## Credit Hours: 3

he aim of the course is to examine the nature and scope of semantics. Attention will be given to such topics as Context, Reference and Denotation, Lexical Semantics: eids and Collocation, Sense Relations, Semantics and Grammar, Utterance Meaning, Semantics and Logic. Se exts will be mostly in the form of a discussion of general principles applied to some data, followed by a number of exercises.

Prerequisite:
ENGL373 OR ENGL 310

## ENGL 448

## Independent Study

Credit Hours: 3
Studies arranged with an instructor to enable the student an insufficient number of credit hours equired for graduation.

## Capstone (Integrated Skills) Credit Hours: 3

Students take this course at the first or second terms of their senior year in the DELL program. In this course, students embark on a research project unde collaboration skills, more than one sudent may emb on one project. Although students are given the liberty to select their individual/ collective project, the approva 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. conduct a goal oriented and methodical research. critical analysis of results are highlighted.

Prerequisite:
ENGL 375 OR ENGL 318
ENGL 451

## Modern Drama

This course focuses on later drama from the nineteenth and twentieth centuries. Selected texts from Continenta, English, and American drama are studied not only for heir 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 heir relationships to society and culture. Modern drama ustrates individual disillusionment with ideals and historical meaning.

Prerequisite
ENGL 377 OR ENGL 313

## ENGL 453

## history of English Literature

redit Hours: 3
This course incorporates the developments in English terature up to the Modern Period. It relates the various and cultural contexts. This course provides a wide variety of critical and historical background information relevant to studies in English literature.

## ENGL 490

Shakespeare
edit Hours:
Our larger goal in this course is first and foremost to think with Shakespeare. By this I mean reading Shakespeare's 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 stablish how and why the question of evil is pervasive hroughout Shakespeare's work. No writer has indeed evil. Shakespeare's great evildoers-such as lago in Othello, Edmund in King Lear, Macbeth, and Claudius in Hamlet-are at once believably human and cosmically epresentative of a battle between good and evil. Trying to answer "the question of evil in Shakespeare" provide
an opportunity for glimpsing into the heart of the human condition. The plays will be both studied as distinguished writ

## Prerequisite EGL 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 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 o reflect the skills and training undertaken throughout he DELL program. Students' performance is suppose relect, haddils, the therl prossional is and and methodical research. Specifically, a research questio goal, methodology, and critical
analysis of results are highlighted

## ENGL R100 <br> 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 learner. 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
must achiev

## EPSY 20

ntroduction to Psychology
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, intellectua students with a basic overview of psychology is provide 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's thoughts, feelings, and behaviors are 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 elationships involves attitudes, attitude change, prejudice interpersonal attraction, and close interpersonal power, and groups.

## FINA 114

Pinciples of Finance
Basic concepts and techniques relating to identification of business financial needs and their sources, with particular mphasis on financial analysis, planning and control, as well as investment decisions relating to working capital.

Prerequisite:
MAGT 112 AND ACCT 111 AND STAT 222

## INA 201

## Principles of Financ

Credit Hours: 3
This course emphasizes the financing and investment decisions of the financial manager. Topics include financial analysis, planning and control, working capita management, time value of money, risk and return,
valuation of bonds and stocks, capital budgeting, and cost

Prerequisite:
(MAGT 101 OR MATH 101 ) AND (MATH 119 OR INTA 100) OR MAGT 112

## FINA 301

## Financ

edit Hours: 3
his 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 nalysis, capital structure, dividend policies, mergers and acquisitions.

Prerequisite
FINA 201

## INA 302

Credit Hours:
This course examines alternative investment instrument
and environments. This course provides an introduction to risk and return; asset pricing models; portfolio choice
analysis and valuation of bonds, stocks, options, and aures; and the workings of exchanges and regulations.

Prerequisite:
FINA 201 AND ( STAT 220 OR STAT 155)

## FINA 303

## Markets \& Institution

Credit Hours: 3
This course examines the operations, mechan and structure of the financial system. Topis indur commercial banking, non-bank financial institutions, money and capital markets, and the impact of monetary policy on inancial institutions. An introduction to the international financial system is also provided

## Prerequisite

## FINA 304

International Financ
International Fin
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 isk management, valuation and portfolio analysis of international stocks and bonds, and foreign investment analysis

## Prerequisite

FINA 302 OR MAGT 306 OR (FINA 201 AND MAG 304)

## INA 30

ublic Finance Application
Credit Hours:
Financial functions of public administration at state
evel. Analytical presentation of the financial decisio making process, financial planning, and financial welfare. Analyzing the financial structure for both internal and external sources. Applying the financial analysis indicators and procedures to increase the financial efficiency of the state.

## FINA 307

## inancial Institutions Management

Credit Hours: 3
Concepts of financial institutions management. Main fields of decision making and methods of evaluating alternative ours insurance companies are emphasized

## INA 308

ial Managem
Credit Hours: 3
some advanced topics in the areas of financial analysis,
, chital investments decisions, fixed assets, financial
ucture, sources of capital, securities and the methods of
portfolio analysis.

## FINA 323

lanagement
pproaches and policies adopted by financial institutions such as commercial banks, Islamic banks, insurance companies and investment funds. Special emphasis w be laid on management of financial firms operating in the State of Qatar.

Prerequisite
FINA 114

## FINA 324

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 Manageme

Credit Hours: 3
This course covers various topics related to portfolio management. Topics include diversification and portfolio heory, capital market theory, security selection and
rdfolio and fixed-income portfolio risk mana ofement
with derivative securities, performance evaluation, and
portfolio manager's duties and responsibilities; integrating derivative assets and portfolio management.

## Prerequisite

FINA 402
ersonal Finance
This course provides an overview of fundamental concepts personal finance. Topics include types of investment securities, retirement and real estate planning, insurance planning, budgeting, credit, home ownership, and savings.

Prerequisite
FINA 201
redit Hours: 3
This course addresses and examines the basic risk heory 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 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

## slamic Bankin

his 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 Islamic economy. Ond instruments of Islamic banks; profitloss sharing method of finance is compared with fixed interest charges. The elationship between Islamic financial institutions and the Central Bank is analyzed.
Prerequisite
FINA 201 AND ( STAT 220 OR STAT 155)

## FINA 405

## Financial Derivativ

his course focuses on options and futures markets, investment and risk management strategies using thes derivative products, and pricing of options and futures ontracts. Additional coverage includes basic swap agreements and exotic options.

## Prerequisite

INA 302

Managementof Financial. intermediarie Credit Hours: 3

This course covers financial management of deposit and non-deposit-taking financial institutions. The cours aims to have students understand and appreciate th
conceptual, strategic, and risk management issues involved in managing financial intermediaries in gener 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 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 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:

## MAGT 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 o portfolio, asset pricing model, equilibrium model and assessment of securities.

Prerequisite:
FINA 114
FINA 429

## surance

Credit Hours: 3
Structure-conduct-performance paradigm of the insurance industry; insurance contract, insurance policies for differen Special attention is given to the attitudes of consumers owards life and general insurance in GCC countries. The role of insurance companies as non-banking financial institutions will be assessed and the future of the insurance ndustry is examined
Prerequisite:
FINA 411 AND ECON 112

## FINA 432

## Money \& Capital Markets

 Credit Hours: 3ntroduction short-term and long-term financial markets, financial and non-financial institutions, banking regulation, he GCC stock markets, efficiency markets, money marke rock market movements the arbitrage pricing theory international stock markets

## Prerequisite

ECON 112 AND STAT 222
FINA 455
slamic Banking \& Finance Credit Hours: 3
Introduction of the concept economic behavior of a Introduction of the concept economic behavior of a 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 slamic financial institutions and the Central Bank is analyzed.

Prerequisite:
ECON 331
FINA 461
International Finance
Credit Hours: 3
International credit markets, equity markets and foreig exchange markets, globalization and the distinction between real and economic returns and asset market macroeconomic schools of thought and the international payments system

## rerequisite

ECON 212

## FIQH 101

## ntroduction 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 Sharia and jurisprudence "figh" and explicates their properties and the relationship between egal systems and positive law. It also studies the histor of Islamic jurisprudence; evolution of schools of legal thought, their text book and terminology, codification of Islamic jurisprudence, the definition of principles of Islamic urisprudence the most important text book of agreed and disagree legal evidences and some legal theories.

## FIQH 210

## Commercial Fiqh

redit Hours: $\mathbf{3}$, define sales, conditions of contracts, kinds of options and prohibited sales. It also shows eac 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, rules, kinds of mortgage, mortgage in possession and guaranty mortgage, admissible and inadmissible mortgages, mortgaging bonds and shares.

## FIQH 212

Personal Fiqh
Credit Hours: 3
Credit Hours: 3
This course aims to raise the awareness of the new enerations about the dangers of separation for the family such as divorce and the wisdom of legitimating it. This course explains the types of divorce and deputizing in divorce repudiation (divorce for monetary compensation) separation for maltreatment, separation for indigence, separation for cursing one another, separation for apostas and the consequences thereafter such as the recess, alimony, housing, legitimacy of parentage, nursing and all of the above with Qatari (Family law) personal status law.

## QH 214

Commercial Fiqh II

Credit Hours: 3
his course includes: lease contracts for objects and utilities, the nature of a lease contract, its basis, conditions, "make to order" contracts, construction contracts and manufacturing contracts. It also includes royalty contracts, competition contracts, struggle contracts, grants, loan contracts, endowment contracts and loan for use contracts.

## IQH 215

Intro to Own
Credit Hours: 3
This course includes: the definition of money and utilities, debts and their divisions into equivalent and ad valorem, he definition of property and the cause of proprietorship, wnership of utility, benefits, and rights, intellectual property rights, ownership of minerals, archeological remains, treasures, limitations on ownership, definitions of wnership, definition of contract: its basis, conditions and pes, defects of consent options and individual wil.

FIQH 219

## Fiqh of Worship

This course aims to satisfy the needs and longings of the soul in the field of Zakat and Haj. This course includes Zakat jurisprudence, which enables students to obtain nowledge of the legitimacy of Zakat, its conditions, agricultural produce, gold, silver etc. The course also explains to students the areas of expending Zakat and modern applications, the Zakat of shares and bonds, how to invest revenues of Zakat. In this course, students get to know Alfiter Alms and its ruling, the definition and wisdom of Haj and Umra together with their types and rules of performance.

## FIOH 303

## Fiqh of Zakat and Awg

he course covers the legal provisions of Zakat, its legitimacy, general conditions, the kinds of wealth in which年a is prescribed, and rules of zakat in goods, jewellery, minerals, stocks, bonds, and banks, and the rules of the Wagf and its role in Takaful and Islamic insurance

## IQH 304 <br> FIQH 304

## slam Ruling and Implications

This course deals with the Islamic ruling in terms definition, divisions, the act, the subject, and examines modes of interpreting the texts, such as the general word (al-amm), the specific word (al-kass), indeterminate
word(mutlaq), particular word (muqayyad), explicit meaning (mantuq) implied meaning (mafhum), plain (Isharat al-Nass) implication of the text (Dalalat al-Nass) Iatida and abrogation.

## FIQH 30

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 the most important theories of jurisprudence, and the challenges faced by Islamic jurisprudence in the present era, as well as how to develop and promote it.

## 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. 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, atonements their legitimate regulations and con law as possible.

## FIQH 315

## Contemp Fin Transaction

Credit Hours: 3
This course deals with modern financial transactions not known in the past. These transactions include moral rights goodwill, and different kinds of insurance, (commercia and the Islamic substitute to com and reinsurance) course studies 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 transfers, and letters of guarantee, letters of credit, and profit sharing in order of purchase and decreasing partnership

## FIOH 317 <br> FIOH 317 <br> \section*{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

Credit Hours: 3
his course includes the solutions that Sharia offers to modern issues. It also contains the stance of Islam from science, the aims of Sharia in medicine. The course shows otherwise. It shows also how Islam conceptualizes medica arwe. It shows also how Islam conceptualizes medical treatment, quarantine, prevention of infection, premarita
medical test, change of substance, removal of impurity, medical test, change of substance, removal of impurity,
cancellation of prohibition from medicines and foods. It also explains rulings on genetic treatment, genetic print, cloning, artificial insemination, birth control, test tube babies, abortion, controlling the sex of fetus, milk banks, clinical death, organ transfer and autopsy.
FIQH 319
Fiqh of Procedures
This course is designed to elaborate the concept of udiciary in Islam, the theory of justice, the ethics pertaining to the judge and the history of judiciary in Islam, dealing with the most important books in this field and sheds light on the elements and conditions of the case, the claimer and the defendant, status of the judge and semi judiciary

## FIQH 320

egal Theory II
The course aims to promote students ability to analogically elate secondary rules to principles in cases where there s no explicit provision. The course enables students oo know the method of inference using nonconsensual evidences. 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 acquain students with sources whose claim to authority lacks Mursala, 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 promotes students' mastery of lexical analysis to gain rigo in judgment, by studying the Holy Quran and the suna and by knowing injunctions, prohibitions, the general, the specific, the universal, 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 he abilities of students to know which utterance refers 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

## redit Hours:

The course covers the meaning of philosophy of legislation elaborating on the establishment of the Islamic rules on the aphorisms, reasons and objectives, examining the issue of worship in the legislation, also shedding light on the philosophy of the Legislation as a wh
each part of the ruling in Islamic Sharia.

## FIQH 402

## ies, Documentation and Donations

Credit Hours: 3
The course covers the nature of companies and its eneral rules, its different kinds such as sharikat Anan, Sharikat wujooh, Sharikat Aamal, Mudaraba, Musahama Tadamun Tawsiya and the nature of the authentications such as Rahn, Kafala, Hawala, and the nature of the donations such as Heba (gift),Aariya (borrowing), Waqt Endowments) and Qard (Loan)

\section*{FIQH 403

\section*{403

## 403 <br> Figh of Inheritance \& Beques

edit Hours: 3
This course is designed to study the Islamic system of inheritance, its causes and impediments, and elaborates on the inheritors (Waratha), Residuary (AlAsaba), Exclusion (Al-Hajb), return (al-Rad), Devolution (munasaka), Denominator (Al-Takharuj) Increase (Al 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 Islamic International law and relations in Islam in situations of war and peace and elucidates upon Neutrality and Isolation.

## IQH 416

## Fiqh Theories

redit Hours: 2
he course includes the importance of a juridical theory, its concept, development, history and properties. The cours theory of norms, the theory of arbitrary use of right, and the theories of invalidity and unsoundness.

## FIQH 417

## Daths, Vows, Atonement \& Food

 Credit Hours: 2his 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

## FIQH 418

## Contemporary ljtih

Credit Hours: 3
his course deals with lijihad (derivation of the hukm) in erms of definition, elements, conditions, its emergence of Mujtahidin. It also covers individual and collective ljtihad and Partial ljtihad (al-ljithad al-juz'ee), the codification of slamic law, elaborating on the issue of Fatwa and Taqleed and the provisions of Fatwa and the Fiqh academies all over the world

## FIQH 419

## Fiqh of Inheritance \& will

Credit Hours: 3 inheritance and wills in Sharia, and draw comparisons with systems of inheritance and wills in other legal systems, with certain emphasis on Qatari law. This course give practical experience to students to solve problems in nheritance through the knowledge of who among the calculating the portions accordingly.

## IQH 42

Fredit Hours: 3
This course is designed to highlight the concept of evidence, and its methods and means in Islamic law examining the validity of these means and the possibility of between these means in the Islamic Sharia and man-mad laws.

FIQH 425
Al-Qiyas (Analogy)
Al-Qiyas (Analogy)

The course covers the definition of Qiyas (Analogy), its authority, elements, conditions, and different types and through which reason wild, and appropise pach on the areas where Qiyas is applicable and not.

## FREN 100

## Basic French

Credit Hours: 3
This course provides an introduction to French communication, with a focus on speaking and listening omprehension. Students will learn key vocabulary and to comprehend French as they hear and read authentic anguage relating to familiar topics. To boost their listening comprehension skills, students will be exposed to multiple authentic audio-visual materials.

## FREN 101

French Language
Credit Hours:
his course is designed for students who wish to begin oundation of the French language, and the develop the our basic language skills of reading, writing, listening and speaking.

## REN 110

Intermediate French I
Credit Hours: 3
This course provides students with a thorough grounding in the four language skills: reading, writing, speaking and listening comprehension. It also introduces the tate-of-the-art language learning software, students wil earn and practice French for practical purposes, such as communicating in basic social situations, meeting outine travel needs and carrying out simple transactions. The course provides an introduction to Francophone
hort messages and wellarticulated sentences in French on familiar topics, and by the end of the course can be xpected to display appropriate awareness of everyday culture in the Francophone world.

## rerequisit <br> FREN 100

FREN 111
ntermediate French II
Credit Hours: 3
his course reinforces the language skills learned in the tiate French Ito help students develop proficiency in the four skills: reading, writing, speaking and listening
comprehension. This course is intended to increase students' proficiency in the language skills and broaden Students will be expected to broaden vocabulary for both eception (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 French, and film clips.

## Prerequisite:

FREN 110

## FREN 200 <br> Language, Cultutre and Society

redit Hours: 3
Tis course offers a study of the history of France with mphasis on political, social, intellectual, and artistic aspects of French civilization. It includes various analyses of the role of France on the international scene and includes study of articles drawn from the French press,
recent films, and current French television news. Student will learn to demonstrate knowledge of the chronology of French 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 French literary canon and taught to place literature in a meaningful cultural and historical context. Students will be taught movements and ideas for the time periods covered in this course.

## FREN 210

## French for O <br> Credit Hours: 3 Communication I

This course develops students' speaking ability in Fren by providing opportunities for conversation practice. The main emphasis will be oral practice but attention will also as well as discussion of various topics of general interest in French. Students will learn and practice French for practical purposes, such as communicating in basic socia 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 eli-study exercises aimed booting communication

## rench for Oral Communication

Credit Hours:
he course focuses on developing practical vocabulary
diomatic expressions, professional terminology and
language for use in a variety of professions. It will improve students' ability to use French in real-life situations and for eal-life purposes, as well as focusing on special topics, cultural events, and cultural issues currently in the news. will give an overview of contemporary French culture and usiness practice, and guide students through practical aviating French social systems and bureaucracy, and interacting with the French.

## Prerequisite

FREN 210
FREN 221
position
redit Hours: 3
This course develops students' writing and speaking ability in French through models of style, related grammar, composition exercises, and the World Wide Web. It als解forces the language skills presented in Intermediate rench I and II through an intensive review of grammar written exercises, an introduction to composition, lexica nrichment, and spoken skills. Comprehension and speaking are developed through the use of cinema, . abored utterances in French and group them into paragraphs and narratives.

## Prerequisite:

REN 100
FREN 222
French Composi
this course hrough a review of complex grammatical structures nd idiomatic expressions. Students practice guided positions and creative writing using factual reporting techniques and literary models. Students will improve their rritten French and gain advanced training in comparative rammar and organizational structures. Students will be sfosed situations (for narrations, letters and emails), as well as their fluency of sage in the written language. The course also focuses on the distinction between spoken and written styles
Prerequisite
FREN 221

## FREN 310

## French Phonetic

This course provides an introduction to the sounds of French, paying close attention to their place and manner of articulation (phonetics) as well as how they pattern with espect to each other and as influenced by morphologica and syntactic factors (phonology). It teaches students basic phonetic rules in French, including the phonetic alphabet and phonetic transcription. Specific language exerrect defects in pronunciation and intonation and give hem a better understanding of the differences between he French and English sound systems.

Prerequisite:
FREN 100
REN 311
Itroduction to French Literature Credit Hours: 3

## REN 110

## FREN 321

## Business French

Credit Hours: 3
This course focuses on introducing functional language kills in the world of French business and business cultur competence. Students will be given further practice of 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 spoken materials, as well as teaching them he rules and formulas of formal business correspondence. Students will study the economic and business hnical terms and usefu idiomatic expressions.

Prerequisite:
FREN 110

## GENG 106

## Computer Programming

Credit Hours: 3
his course introduces the student to computer concepts, control structures, functions, arrays: single and multicourse also examines input/output statements includin data file I/O, arithmetic, logical and comparison operators along with an introduction to classes.

## GENG 107

Engineering Skills and Ethic
redit Hours: 3
troduction to engineering and engineering disciplines, problem solving skills, intrication skills, study skills and roblem solving skills, introduction to design.

## GENG 111

Engineering Graphics
redit Hours: 3
This course discusses the fundamental concepts of engineering graphics. It also provides an introduction to topics are covered: Drawing conventions such as standards, line types and dimensioning; drawing of inclined and curved surfaces; deducting the orthographic views from a pictorial; drawing full and half sections; deducting an orthographic view from given two views; pictorial sketching (isometric and oblique).

## GENG 200

## robability and Statistics for Engineers

redit Hours: 3
lassification of Data. Graphical representation. Arithmetical description. Probability theory, probability multiplication rule, independent events. Counting techniques. Random variables and probability distributions. Expected values. Continuous and discrete random variables. Normal distribution. Binomial distribution distributions. Independence of random variables.
Covariance and correlation. Random sampling. Unbiased stimates. Statistical intervals and test of hypothesis for a single sample.
rerequisite
AATH 102

## GENG 231

## Materials Science

A study of relationships between the structure and the properties of materials. Atomic structure, bonding crystalline and molecular structure and imperfection lechanical properties of metals, alloys, polymers, nd composites. Electrical properties of materials, onductors and ceramics. Creep, fatigue, fracture and corrosion in metals. Laboratory experiments.

MATH 101 AND CHEM 10
GENG 300

## Numerical Methods

## Credit Hours:

he numerical methods course involves solving engineering problems drawn from all fields of engineering of nonlinear algebraic equations, solution of linear and transcendental simultaneous equations, matrix and vector manipulation, curve fitting and interpolation, numerical integration and differentiation, solution of ordinary and partial differential equations

## Prerequisite

GENG 106 OR CMPS 151) AND ( MATH 211 OR( MATH 102 AND MATH 231))

## GENG 360

## Engineering Economics

## Credit Hours: 3

Principles of Engineering Economy. Equivalence and compound interest formula. Single payment model. Uniform payment model. Gradient payment model. Present worth, annual worth, future worth, internal rate of return, and benefit cost ratio. Before and after tax analysis.

Prerequisite:
MATH 102
GEOG 110
General Geography
This course will study the principles of general geography: Geographical thinking, branch definition and geographical interests and methodologies; Real facts about the planet Earth - universal and mathematical facts about planet Earth, also its climate and biological environment; humanities and economical geography such as population ype of populations, political group, natural resources and various economic activities.

## GEOG 204

General Economic Geography Credit Hours: 3
The course covers the study of the economical aspects and their characteristics as following: - Definition of economic geography, its relations and links with other geographic branches, and evaluating the research methodology outcomes. - Studying the economic perspectives, dividing and classifying the resources. Analyzing the physical resources and the characteristics of the economic production which are seen in: the distribution of water and land, the geological formation, the distribution of rocks and metals, the surface features and weather
factors, the natural plants, animal, and water resources. Understanding the human resources such as: populatio dheir distribution, the economic and living levels, policies, the social features as the traditions, beliefs, and ustoms, and finally the resources management strategy. Explaining some economic activities and the pha

## GEOG 242

Weather \& Climat
Credit Hours:
he present syllabus deals with the study of climatology a geographical perspective. Such science is focused nvironment, and its contribution in building the main background for numerous humanity sciences. Consequently, it will be possible to precisely explain the diverse human phenomenon on the globe. Atmosphere over: origin, components, layers, pollution sources and the future. Main climate elements: Solar and ground condensation, rainfall, air masses, air depression, tropical
 the State of Qatar.

## GEOG 243

redit Hours: 3
The course covers the following topics: Concept of remote sensing. Its history (stages of progress and use of remote ensing). Principles of remote sensing (its components, ectromagnetic energy the interaction of energy with he atmosphere). The mediums of remote sensing which include photographic (non-color films, infrared
ims, standard color films, and infrared color films) and non- photographic medium. Aerial photography (simple istruments, processing non-color,color, and infrared (ms). Remote sensing satellites: Multi-Spectral Scanne MSS), Thermal Scanners (TS), Thematic Mapper (TM)
Mathematics of aerial photography: measuring elevatio rom paired/overlapped photographs, relief displacement aerial photograph interpretation.

## GEOG 300

Geography of
redit Hours: 3
his course includes an introduction to Arab World. It covers a physical study of the Arab World, introduction to ernational geopolitical and its spatial characteristics, opography, climate- regional climate, natural plants and their distribution, as well as soils. It also covers the Economics of the Arab world: Agriculture production,
physical and human being elements, biological and water resources, mineral resources, energy sources, geographical dist buating industry transpotations, conomic corporations, problems facingthe Arab world and studying some Arab countries.

## GEOG 344

olitical Geograph
Credit Hours: 3
Political geography definitions; comparison with political conomic, and geopolitical sciences; research methods in poifitical geography, issues in neo- political geogra (physical \& human) components; the notion of "space or the state; capitals; local and international policies; political boundaries: the establishment of boundaries and developments since the rise of nation-state, marin boundaries, regional boundaries, boundaries and elations with human phenomena, case studies in political upra- nationalism. Notice: all case studies and practices should consider Arab and middle east examples.

## GEOG 346

Introduction to GIS
Credit Hours: 3
This course is divided into two parts: theory and practical parts. Theory section: covers the following topiss: Concep of Geographic Information Systems (GIS): definition GIS application. Components of GIS which include five components: hardware, software, , data), and the GIS applications. GIS basic functions: data entry, management f data, data processing and analysis, and data output. Types of geographic data and their organization:, design and implementation of geodatabases. Methods for planning and implementing a successful GIS project ractical section: Training students on the preparation of analyze and compare different GIS systems. Hands-on experience on various methods of geodatabase design o hold geographic data of a project. Train students on mechanisms of data sharing and data conversions Conduct all stages of a GIS project with local scenario using one of the available GIS software packages.

## GEOG 441

## Geography of Qata

This course aims at providing the students with insight into he effective factors in the geography of Qatar, methods. of investigation and analysis. Additional goal is to highligh he mutual relationship among the natural, human and
economic elements that affects the geography of Qatar and how these various elements interplayed 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 production with some 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 three parts:
The first part: introduction to the environmental systems of the earth and the mutual relationship between the

- 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.


## GEOG 448

## Hydrogeography <br> Hydrogeography Credit Hours: 3

This course deals with hydrology in a holistic view. Water resources remain of great worldwide concern due to the necessity of water in our daily life. That is why this course will handle this issue in its diverse dimensions and aspects: Hydrology: purpose, branches, developmen character of water, typology, general hydrological groundwater. Seas and oceans and Water usage.Nonconventional drinking water resources: desalination, recycled water, water import, bottled water, cloud seeding collateral fog, icebergs. Water scarceness: causes and ways to enface it. Means to control water demand: juridica tools, technical tools, economic tools, social tools, decision making and management. Water pollution and filtering wayer management Sustainabs and approaches of drinking water. Water resources in the State of Qatar

## GEOL 101

Principles of General Geology
Credit Hours: 3

Introduction to geology and earth sciences, evaluation of the geologic thinking and the contribution of Arab \& Muslim scientists, position of the Earth in the universe and its Earth's layers and their main characteristics, components of the Earth's crust; crystal minerals and rocks, and geologic structures. Internal and external processes and plate tectonics theory, introduction to historical geology, and synopsis on the geology of Qatar and its natural esources.
Prerequisite:
( ( ENGL 040 OR ENGL C002 OR Total for Integrated Core ( ( ENGL 040 OR ENGL C002 OR Total for Integrated Core
400) AND (ENGL 041 OR ENGL R002 OR ESL Reading Skills 100) AND (ENGL 042 OR ENGL W002 OR APL for Writing Workshop 225) ) OR (Total for Integrated Core 400 AND ESL Reading Skills 100 AND ESL Language Use 100) OR TOEFL_Inst Testing Prog 500 OR TOEFL Internet-based Test 061 OR TOEFL Computer-based Tes 173 OR Int Eng Lang Test Syst-IELTS 5.5 OR ENGL ENGL 202

## GEOL 211

Principles of Paleontology
Credit Hours: 3
Definition, stratigraphic methods in historical geology, paleontologic methods; definition of fossils and modes of fossilization, paleontological studies of protozoa oraminifera-radiolaria), sponges, coel praa, graptolite Cenozoic.

Prerequisite:
GEOL 101

## GEOL 303

nt \& Sedimentation
redit Hours: 3
Introduction, sedimentary cycles, clastic rocks, carbonate rocks, evaporites, sedimentary rocks, siliceous sediments, phosphates, depositional environments: continental, mixe and marine, sedimentary basins, sedimentology and tectonics, economic mineral deposits.
Prerequisite:
GEOL 101
GEOL 321
Structural Geology and Geotectonics Credit Hours: 3
Evolution of Earth through geologic time, internal structure of the Earth, continental drift theory, isostasity, convection currents, paleomagnetism, sea floor topography, plate
tectonics, ocean-floor spreading, asthenosphere, hot spots, major plate boundaries, economic implications.

Prerequisite:
GEOL 101

## GEOL 322

## Survey \& Field Geology

Credit Hours: 3
Introduction and main concepts of field work, field observations, collection of samples and data, principles plane surveying using different methods, techniques \& vertical angles, use of compass, clinometers and hand evel for geological surveying and mapping, identification of geologic structures in the field.

## Prerequisite <br> GEOL 101

## GEOL 332

## eophysics

Physical properties of rocks, seismic method (introduction), mechanical properties, equipment, reflection method, refraction method, data analysis and interpretation, gravity method, earths' gravity field, equipment and field survey.

## Prerequisite <br> GEOL 101

## GEOL 401

Geochemistry
Credit Hours:
introduction, earth spheres, meteorites, distribution of elements, earth structure, geochemistry of igneous rocks, metamorphic rocks, sedimentary rocks, hydrosphere environmental 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 411

## Geology of Arabian Peninsula and Qata

 Credit Hours: 3General Geology of Saudi Arabia, Qatar and Oman structural elements of the Arabian Peninsula, stratigraphic structural elements of the Arabian Peninsula, stratigra
nomenclature of the Arabian Peninsula and Qatar (Paleozoic from Recent), mineral and petroleum resources.
Prerequisite

## GEOL 421 <br> hotogeology \& Remote Sensing

htroduction to the principles, equipment, materials and methods for aerial image acquisition, electromagnetic spectrum and basic spectral properties of Earth features and atmospheric interaction, airphoto geometry and mapping

Prerequisite

## GEOL 432

## Geology of Petroleum

Credit Hours: 3
ntroduction, 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
ntroduction to hydrogeology, evaporation and recipitation, 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
This history gateway course traces the key themes of history. The course explores the concept and meaning
of history. It enables students to develop critical and analytical thinking skills through examination of primary and secondary sources, as well as research and writing writing such as arguments, along with class presentation and discussions. This course covers history of the world before 300 AD .

## HIST 111

## History of the 1

Credit Hours: 3
This course surveys the emergence and growth of the Islamic community, from the time of the Prophet
Muhammad to the end of the twelfth century Topics covered include the rise and spread of Islam, the Islamic empire under the Umayyad and Abbasid Caliphs and the emergence of regional Islamic states from Afghanistan and Eastern Iran, to North Africa and Spain. The course concludes with Muslim recapturing of Jerusalem in 1187 The course emphasizes the structure of social and politica institutions.

## HIST 121

History of Qatar
Credit Hours: 3
This course aims at familiarizing students with the history of Qatar through different historical eras, with particular emphasis on the emergence and development of Qatar Emirate during the Ottoman-British rivalry in the Gulf. The during the pre and post oil and Gas era. It examines the socio-political and economic developments that took place in the country covering the period of his Highness, Sheikh Hamad Ben Khalifa Al Thani.

## HIST 131

Vorld History Since 1300
Credit Hours: 3
This course examines key transition in world history since 1300 CE . Topics covered include intensified since 1300 CE. Topics covered include intensified Age (1450? 1770), creation of a world market, the age of revolutions, and emerging modern patterns in world history such as modernization and colonization. The course emphasizes the formation and development of the world's major societies, and systematically explores cross?cultura 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, systematic overview of the requirements of writing history, and methods and techniques that a historian depends on in writing history.

Prerequisite
HIST 103 OR HIST 188 OR HIST 188

## HIST 212

## History of the

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 of Baghdad in 1258CE, which resulted in ending the Abbasid Caliphate. The course ends with the decline of the Mamluks state at the hands of the Ottomans.

## rerequisite

HIST 111 OR HIST 262

## HIST 213

## Modern Arab History

Credit Hours: 3
This course traces the social, cultural, economic, and political changes that contributed to shaping the foundation of today's modern Arab societies. It examines the changing fortunes of the political elite, merchants, shopkeepers, peasants, tribal populations, religious scholars, women, as well as ethnic and religious minorities during the reign of and interpret primary sources relevant to the period covered.

## HIST 217

## slamic Civilization

## Credit Hours: 3

This course focuses on the concept of civilization, the rise and historical circumstances that helped in establishin
the Islamic civilization, its interrelation with the other iivilizations, and its contributions to the world cultur civilizations, and its contributions to the world culture 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 heir impact on other civilizations up to the 16 th century.

## HIST 220

## Diseases in World History

## redit Hours: 3

hroughout history, diseases have claimed the lives of millions, yet the medical, social, economic and political impacts of such devastation are often under investigated. This course will address the historical, social and health related aspects of selected diseases and how they have shaped the medical practice, social, history, and influence today's societies.
This course is open to all students planning to major in science, social sciences, health sciences, or arts in science, social sciences, health sciences, or arts science, medicine, or history to take this course.

## HIST 222

## The Gulf in Modern Period

Credit Hours: 3
This course is designed to provide the students with the necessary information that would help them understand past five centuries, as well is 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

## urope \& the

Credit Hours: 3
This course examines European social, economic, political, and cultural development since the 1500 s, and its impact on the early modern and modern world history. Topics covered include the intellectual contribution of th Renaissance, Reformation, and Enlightenment, the arts, social and political thought, the Industrial 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 Writing, Schools of Historical Interpretation

## HIST 245

Ancient Greek \& Roman
Credit Hours: 3
Sources of Greek and Roman History, the Homeric

Period, Greek Colonization and its Results (8th Centuryth Century B.C.), Development of Greek City- states to the End of the 6th Century B.C. (Sparta and the systems), Persian-Greek Wars, Rise of the Athenian Empire, the Peloponnesian Wars, General Conditions in he 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-Carthage Conflict, Roman Policy towards the Republic, Augustus and Rise of the Empire, Roman Rule the East up to the Early Imperial Period.

## IST 31

Economic \& Social History of the Muslim World Credit Hours: 3
This course examines Islamic world's agriculture indigenous and imported), food and industrial crops, rrigation and trade. It discusses Islamic economic growth industries; trade and marine routes; companies and monopolies; the relationship between Muslim communities and other trading communities; the Islamic city and countryside; prevalent customs and traditions; and the role of women. Course assignments such as essays, reaction and research papers will contribute to improving students
critical and analytical thinking.

## HIST 318

History of AI-Andul
Credit Hours: 3
This course deals with the history of Andalusia from the sixth to the fifteenth century. It examines many topics, such as the Late Roman period, Islamic conquest, Islamic states in Andalusia, society and culture, and the Reconquista movement up to the fall of Andalusia in 1492. The course in north Africa (Maghreb) and the Islamic state in Andalusia rom the Muslim conquest until the end of Islamic power in Andalusia.

HIST 319

## History of the Crusade

Credit Hours: 3
An intensive study of the wars between Western Europe and Islam that took place in the Holy Land from the late leventh to the late fifteenth century. Special emphas motivations of the crusaders, the changes in crusader deology, Muslim response to Christian military attacks, Muslim awakening and role in liberation of their lands. Lastly, the course concludes by discussing the results and

## HIST 320

## istory of Islamic Sects and Movements

Credit Hours: 3
his course aims at studying social, economic, intellectual and political developments that had accompanied the stablishment of the state of Islam. It also focuses on the division of the Umma as a result of the first period of Fitna between 30?40 A.H. The course also sheds light on the crystallization of the nation of state (Ahla al? Jama'a); the mergence of sects; political and religious oppositional issues; and the state's position towards these opinions.

## IST 32

## Iran and its Neighbours

Credit Hours: 3
In this course, the students will study Iran's relationship with its neighbours during the modernperiod, beginning mination of Central Asia; conflict with the local and gional powers; and the impact of superpowers such Russia, the Ottoman Empire, Britain, and Portugal. The tudents 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
redit Hours: 3
This course is designed to help the students understand he 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 uropean colonialism on the relationship between the two regions.

## HIST 324

## conomic H

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 attention to the , different development models, labour markets, regiona integration, the Gulf's changing place in the global economy and the question of reform.

HIST 331

Ancient Greece and Rome, 1200 BCE to 500 CE Credit Hours: 3
This course examines various developments of ancient Greece; the Roman Republic and Empire. Topics covered and Persian wars; Alexander the Great; Rome's expansion through the Punic Wars; and issues of commerce, justice citizenship, taxation, and cultural conflict. The course concludes with a brief examination of the decline and collapse of the western half of the Roman Empire

## HIST 332

Medieval Europ
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 ess xams, reacize critical hinking writing and commuication hat emphasize critical thinking, writing and communication skills.

## HIST 33

The Renaissance and Reformation, 1400 to 1648 Credit Hours: 3
This course examines the intellectual and cultura developments in Italy and Northern Europe; the origins of the Protestant Reformation and its impact; the Asia and the Americas; the decline of feudalism and the ise of the nation state; Religious wars; and the Peace of Westphalia. Course assignments include research paper, reaction papers, as well as class and group presentations hat emphasize critical thinking, writing and communication skills.

## HIST 334

Arabian Gulf in Antiquity
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 perio
 particularly during the Bronze Age.

## IST 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, Mesopotamia, Ancient Egypt, Persia, Levant, India, China Ancient Yemen Greece Rome Africa Latin America and Arabia. Through a topical approach, the emphasi is placed on the variety of ancient women's experience 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 Abs

his course examines the major trends in political, socia 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 ourse deals at length with the cultural movement know and France, and the consequences of those of the developments.

## HIST 343

## Fatimids, Ayubides \& Memluke

Credit Hours: 3
Ismaili 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 Zeangids, Salahdin 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 (Huttin Battle), Saladin's Successors, Ayyubid Systems, Emergence of the Mamelukes' Influence, Mamelukes' Naval Efforts to Eliminate the Crusader Presence, Repulsion of Mogol Threat, Economic Prosperity in the 8th Hegira Century (14th Century), Threat, Portuguese Threat, Conflict with Ottomans a Fall of the Mameluke Dynasty, Civilizational Systems and Accomplishments

## HIST 358

ttomans to the Conqs
redit Hours:
onditions of the Islamic East Under the Buwayhid Dynasty, Rise of the Seljuk State and Control HegiraL 1063 -1092), End of the Great Seliuks' Era (485 525 HL1092-1157), Atabeq States Within the Seljuk State, Mongol Invasion, Fall of the Abbasid Caliphate ( 656 HL1258), Invaders' Emirates in Anatolia in the 12th an

12th Centuries), Rise and Growth of the Ottoman Emirate, Growth of the Ottoman Emirate into a State in the 14th and State and Annexation of Arab Countries, the Government and Administration Approach, Economic and Social Conditions, the Caliphate Issue and the Islamic League, Arabs from Separatist Attempts Within the Ottoman State to Confrontation of European Invasion, Arab National Thought to the Mid-20th Century.

## HIST 370

## b History since 19

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 1967 Arab? Israeli War. Topics covered include he strugg in the interwar period, Arab nationalism and
 he Arabs and the Cold War, the Arab? Israeli struggle r coexistence, women of the Arab world, and Arab odernization and development in the age of globalization.

Prerequisite:
HIST 213 OR HIST 358

## HIST 380

## The Making of

## redit Hours: 3

This course examines the cultural, political, and onstitutional origins of the US. It covers the series of evolutionary changes in politics and society between the of the British Empire, and turned them into an independen nation. Starting with the cultural and political glue that held the British Empire together, the course follows the political and ideological processes that broke apart, ending with the series of political struggles that shaped US identi

## HIST 390

The History of Modern China and Japan Credit Hours: 3
The social, political and cultural history of wentieth?century China and Japan with a focus on issues of nationalism, revolution, modernity and gender. Using a combination of primary and secondary materials relating to various walks of life, and a range of experience om shopping to constitutional debates, students will be expected to criod in Japan and China's histories. ectures will introduce important developments and provide a framework for developing strong analytical skills.

HIST 407

## Credit Hours: 3

In this course, students embark on a research projec under the supervision of their instructors. To enhance their
collaboration skills, more than one student may embark coli aboration 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 history program.

## HIST 415

## istory of Sci

Credit Hours: 3
This course traces the development of science in Islam up to the age of Ottoman Empire. It begins with the positive attitude of Islamic traditions towards seeking knowledge paper mills and the Wisdom House in Baghdad on the paper mills and the Wisdom House in Baghdad on the
translation process and emergence of Islamic scientific scholarship will also be examined. The contributions of Muslim scientists and Islamic centers of learning during Muslim scientists and Islamic cent

## HIST 416

## History of Islamic Arts and Architecture

 Credit Hours: 3This course deals with all Islamic forms, styles and designs of art and architecture from the rise of Islam in the seventh to the thirteenth century. It begins with the impact of the ancient and neighbouring civilizations on the Islami culture. Numismatics, pottery, ceramic, metallic crafts, glass and crystals, carpet and textiles will be studied
Additionally, urban planning and design of mosques, Additionally, urban planning and design of mosques, Damascus, Baghdad, Jerusalem will be also studied.

## HIST 417

Topics in Islami
redit Hours: 3
This course may count twice with different topics. The following are examples of topics and are not meant to be exclusive: History of Women in Islam; Islamic Political Medieval World: Historical \& Socioeconomic Lessons. Students' broad comprehension of the material will be examined through highly critical and analytical research projects.

## HIST 421

The Gulf and
This course is designed to acquaint the students with the relationship between the Gulf countries and the Arab World during the modern period, the evolution of
this relationship, and its social, political, and economic dimensions. The course will examine Gulf-Arab relations since the nineteenth century, cultural and educational Gulf countries towards nationalist movements in the Arab world, and their position regarding the Arab-Israeli conflict.

## HIST 425

## Topics in Gulf History

Credit Hours: 3
The course may count twice with different topics. The ollowing are examples and are not meant to be exclusive Travellers and the Gulf in Modern History; Gulf -Arrica
Relations; The U.S and the Gulf; The Gulf and Arab Israeli Conflict; Reform Movements in the Gulf.

## HIST 427

## Muslim Minorities in the World

 Credit Hours: 3This course explores the developments and debates related to Muslim communities issue in different parts of he world. The great focus of this course will be mapping 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
his course examines nationalism in three interrelated domains: the way it informed the emergence of modern nation-states in Europe; the major theoretical debates this historical experience generated and the ways in which nationalism was disseminated through public performance. The course focuses on nationalism in France, Germany, and Italy. Students will improve their sense of inquiry, developing sharper communication and writing skills
through composition of research papers, class and group discussions, and presentations.

## HIST 432

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-wat pow porcussions on the rest of the world

## HST 43

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: Nopeo the Middle East: Women in European History; The Rise of European Fascism in the 20th Century: European-Ottoman Encounters.

## HIST 436

Intellectual History of Europe in the 20th Century redit Hours: 3
This course explores the intellectual and cultural istory of Europe in the 20th century. It examines how gures contributed and responded to key developments in the 20th century. Among the historical themes for consideration are psychology and the self, feminism gender, the mass politics of socialism, fascism and totalitarianism, race, empire and decolonization.

## HIST 444

## orocco \& Andalus

redit Hours: 3
redit Hours: 3
he Maghreb and Its Population, Islamic Conquest, Governors Period, Independent States (Aghaliba, anati Emirates, Banu Hilal and Salim, Murabits, Al uwahids and Their Fall, Spain Solim, Murabits, Ai nanuest, Conquest of, Spain before the Islamic maest, Conquest of Spain, Governors Period, Jmmayad Emirate Period, the Caliphate and Its Fall, AI AI Ames, Fall of Bani Al Ahmer State, Moriscos

## IST 445

Modern and Contemporary History of Arabian Gulf Credit Hours:
Conditions of the Arabian Peninsula from the Outset of Attoman Rule, AI Salafiya Movement and Its Effects, dvent and Evolution of the First Saudi State, SaudiPeninsula, Political Forces in the Arabian Peninsula in the 9th and 20th Centuries, Advent of the Third Saudi State, Arabian Peninsula and World War One, Kingdom of Saudi Arabia, Yemen in the Modern Era, Major Powers and Arabian Peninsula

## HIST 447

## ory of Mod

redit Hours: 3
uropean Renaissance, Geographical Discoveries and heir Effects, Religious Reform Movement in Europe and It Effects, International Relations in the 16th Century Relations in the 17th and 18th Centuries, the French

Revolution, the Industrial Revolution and Its Results, Era of Conferences and Reformation of Europe, Italian the Late 19th Century to Early 20th Century, First World War: causes, battles and results, peace treaties, Inter-wa 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

## slamic Art \&

## redit Hours: 3

nfluence of Islamic on Artists, Islamic Architecture (urban architecture, military architecture), Money and Al Numaya , rer ars), Inscriptions (Kufic writing, Naskh writing).

## HIST 45

Compreh

## Credit Hours: 3

his course is designed to provide students with the ability to link the knowledge, skills and trends they have overcome educational, obstacles. Furthermore, it leads he educational advancement from a comprehensive perspective, taking into consideration the practica experience the students have acquired from their raining as student teachers in school. This course also focuses on providing students with the skills of adopting field and educational problems, such as alternative trategies 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 omprehensive 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 ecture. Students are then divided into teams to cover he various aspects of the topic. The teams present the esearch activities in lectures. ssessment: Students' research activities on the topic are Asessed and no tests are given. Examples of topics: the 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 nations, national identities, and national communities ar 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.

\section*{\section*{HONS 100 <br> <br> HONS 100 <br> <br> HONS 100 <br> Credit Hours:}

This Honors Seminar will introduce students to the University and its Honors program. It will enable students to learn how to think and express their thoughts critically and effectively. Students will also learn the necessary skills for writing an effective research paper. The course is interdisciplinary with emphasis on topics proposed by

## HONS 101

## Honors Fres <br> Credit Hours: 3 Seminar.for Humanities.

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, 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

The Honors Freshman Seminar course for Social Science 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 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 and improvement, applications in design/modification Work measurement, Time study, work sampling, PMTS, fundamentals of incentive schemes \& performance measurement.

Prerequisite
GENG 200

## ENG 260

Thermodynamics
Credit Hours: 3 neductory examples 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 Selected applications to engineering problems including apor-power cycles, refrigeration cycles and simple gas turbine cycles.

Prerequisite
MATH 217
ENG 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 ayout planning and computer aided layout improvements and design. Storage and warehouse system.

ENG 210 AND IENG 330

## ENG 320

## Statistical Quality Contro

Credit Hours: 3
Concepts and statistical methods for controlling the quality products and services. Process control techniques, acceptance sampling methods, statistical analysis usin QC tools and basics of other methods such as DOE, processes, costs and to improve quality.

## IENG 330

## perations Research

Credit Hours: 3
ethods of operations research including formulation for models and derivation of solutions linear programming. mplex algorithm. Transportation and assignment
problems. Network models.

## Prerequisite:

MATH 231 OR MATH 102

## IENG 331

dvanced Operations Research
Credit Hours: 3
Linear programming review: simplex and revised simplex method sensitivity analysis. Advanced linear programming Parametric linear programming. Goal programming. scheduling and Sequencing Nonlinear Programming

## Prerequisite

IENG 330

## ENG 337

Production Planning and Inventory Control
Credit Hours: 3
introduction to subject and related terms to the topic undamentals of products \& processes selection \& ansformation requirements, approaches for forecasting or independent demand items, material requirements \& esource planning, scheduling, new concepts in subjects such as lean management practices.
Prerequisite:
NG 330 AND GENG 200 AND GENG 360

## ENG 350

omputer Sim
Probabilistic models, system dynamics and simulation modeling, input data modeling, verification and validation of simulation models. Analysis of simulation outputs. Discrete-event simulation modeling and analysis. Problem solving using simulation modeling techniques. Queuing eory, queuing systems and application of statistical liples. De varince of simulation out

Prerequisite:
GENG 106 AND GENG 200
ENG 410

## Ergonomics \& Safety Engineering

 redit Hours: 3ntroduction to Ergonomics \& terms associated \& mental characteristics, human senses, pognitica processes, nature of work and work capacity, impact o working environment, ergonomic considerations in design of workplace \& facilities, controls and displays, office rgonomics, introduction to safety \& quality of work life azard \& failure causes, fundamentals of investigation \& analysis.

## rerequisite

## ENG 41

## Maintenance Planning \& Control

## Credit Hours: 3

Management of maintenance planning, execution, contro and its relationship to other functions, preventive and spare parts planning, replacement analysis, reliability ngineering maintenance procedure and costs invol undamentals of TPM and OEE, role of computers. Case studies and applications

## Prerequisite

## ENG 420

## Quality Managemen

## redit Hours: 3

 Quality Management in the context of organizationa and cultural change dedicated to the continuous
improvement of products and services. Some of the improvement of products and services. Some of the quality management systems (ISO 9000), benchmarking mand Crosby

Prerequisite:
IENG 320
ENG 421
Decision Analysi
Credit Hours: 3
is is an introductory course on the theory and applications of decision analysis. Approaches of decision making problems under certainty and uncertainty. making techniques in engineering and systems analysis. Formulation of risk problems and probabilistic risk assessments.

## IENG 423

Design of Experiments

## Credit Hours: 3

Principles of experimental design. Randomized complete block designs. Latin square and Graeco-Latin square designs. General factorial designs. 2 k Factorial designs esponse surface methodology and robust design Planing performing and analyzing industrial experiments.

## GENG 200

## IENG 425

## Reliability Engineering

redit Hours: 3
ntroduction to reliability analysis. Reliability measures eliability function, expected life, hazard function of product life. Extreme value distribution. Static reliability models. Dynamic reliability models. System effectiveness measures. Reliability allocation and optimization. Introduction to fault tree analysis and human reliability.

## Prerequisite

GENG 200 AND IENG 330

## ENG 441

oncurrent Engineering
redit Hours: 3
systematic approach to the mechanical design of products, requiring the concurrent design of all related processes. Iterative and integrated product developmen enods. Design of world class products. Integrated concurrent and reverse engineering. Quality Function equirements with process capability, Design for
Manufacturability, Design for Assembly. Robust products through appropriate design of experiments.

## IENG 450

Production Automation
Credit Hours: 3
Principles of manufacturing automation and contro trategies and techniques for modern industrial and applications of modern computer numerical contro CNC). Programmable Logic Controllers (PLC). Robotics and automated materials handling systems. Analysis of automated production systems/lines including; automated flow lines, transfer lines, and automated assembly lines.

Prerequisite
GENG 106 AND MECH 230

## ENG 45

## Expert Systems

undamentals of artificial intelligence (Al). Basic concepts and principles of expert systems. Building expert systems, central ideas of expert system development; including knowledge representation, control structures, knowledge the use of domain specific knowledge to obtain expert performance in programs. Modern expert system programming techniques and tools.

Prerequisite:
GENG 106

## ENG 45

nformation Sy
Fundamentals of information systems, key application areas of an industrial information system - the relational database model, introduction to SQL, Query by ExampleInformational architecture and logical database design data modeling, entity-relationship model - normalization information system analysis and design, understanding the iformation requirements of an enterprise - implementat 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 ols.

## Prerequisite

GENG 106

## ENG 460

## Manufacturing Systems Design

 Credit Hours: 3Manufacturing operations, manufacturing models and performance metrics, design of manufacturing systems including cellular, manufacturing and flexible planning optimization and economic of manufacturing systems, group technology, transfer lines. Computer aided manufacturing

Prerequisite:
PHYS 193 AND PHYS 194 AND MECH 230

## ENG 478

## Entreprenerip

## redit Hours: 3

his 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 fers the basic framework for understanding the process echniques in decision making, planning, marketing, and financial decision making, planning, marketing, ototype development preparation of workable proie asibility reports, practical ideas about launching their own enterprises are also covered

## rerequisite:

ENG 479
Special Topics
Selected topics that meet student interests and reflect trends in the field of industrial and systems engineering

## ENG 48

Project Engineering
Credit Hours: 3
Introduction to project engineering, project lifecycle and feasibility studies. System approach covering quirements such as scope, 1ee, cost, quaity, resources doakdown and network scheduling techniques work S CPM \& PERT. Cost and resources considerations and organization structures. Applications of project management software. Case studies

## Prerequisite

GENG 360

## ENG 484

upply Chain Managemen redit Hours: 3
troduction to subject its importance and evolution, erms associated, Inbound side of chain, procurement/e procurements \& sourcing, vendor management, perational aspects in supply chain, Make or buy ecisions, and resource planning, distributional aspects of pply chains, Integration aspects such as Linkage with with manufacturing environments, optimization, and sourcing decisions affecting overall performance. Newer practices in supply chain management.

Prerequisite

## Financial Engineering \& Risk Managemen

Credit Hours: 3 ntroduction 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 or managing financial risk including; portfolio theory, (CAPM), Monte Carlo methods Value-at-Risk Stress esting, extreme value theory, decision trees and utility theory.

Prerequisite

## GENG 200 AND GENG 360

## ENG 486

## Service Ope

Credit Hours: 3
Understanding Services, how the operations and management of services is different than manufacturing re of services in economy and value chains, service strategies and competitiveness of value chain, design of ervices, service systems and the various considerations, managing and operating services, service considerations melect sechors such and cerforice and privale non-profit organizations, global performance aspects of services.

## Prerequisite

GENG 360

## ENG 498

## ndust Systems Desig

redit Hours: 3
team-based capstone design work involving analysis and design of a system in the area of Industrial and Systems apply project planning and scheduling techniques and computational and/or experimental solutions. Emphasi 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 formal report based on specific standard format followed by a multimedia presentation of the work undertaken in the project.

## ENG 49

Independent research of a topic not previously studied in other industrial systems engineering courses. Offered is required

## INTA 100

First Year Semina
Credit Hours: 3
The First year Seminar is a small interdisciplinary courses designed to improve critical thinking, reading and writing urriculum format of the course is designed to curriculum. The format of the course is designed to hem to explore new ideas and concepts related to global ssues. Students are expected to become involved in ecognizing, evaluating and deconstructing arguments and learn essential methods of research, writing and analyzing

## NTA 101

Plitical \& Social Thought
redit Hours: 3
in the last half a millennium Western Europe transformed in radical ways, from individual selfperception to the way e state legitimizes its authority. Most of the changes were unprecedented in human history, and along the way, brought about new philosophical problems that since then ave occupied the western world. This course introduces ome of the central philosophical problems as well as ore solutions offered by European philosophers.

## INTA 102

ntroduction to Political Science
Credit Hours: 3
This course aims to provide an overview of political science by examining its major approaches, concepts, heories and subject matter in practice. The course The ultimate goal of the course is to offer students a firm conceptual foundation in the discipline so that th questions can be studied in more detail throughout the rest of their academic career.

## INTA 103

ntroduction to International Relation
redit 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 loca, regional and global issues, including, but not limited to,
ethnic and religious conflicts, wars, foreign policymaking

## NTA 20

## Study \& Pract

This course introduces a key element of international elations: the art of diplomacy. We analyze diplomacy's mportant 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 f their own.

## NTA 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 poitical phenomena such It explores themes such as the relationship between deology and political behavior, political interests and how they are represented, group-decision-making in democracies, as well as the different types of government and regimes and the political hierarchy supporting them. he course also shows how different political systems interact, and students will be expected to anticipate how tese political systems will act in the future

Prerequisite:
NTA 102
INTA 202
European Civilization
Credit Hours: 3
his is an introduction to the history of European iviilization from the pre-industrial era. Its goal is to presen European development from 1050 to broad lines of 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.

## NTA 203

## Women in Islam

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 oles what women have played throughout Islamic history arstruction 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

Credit Hours:
his course is a survey of the history of the Middle East rom the rise of Islam until the Ottoman Period, roughly the conomic, intellectual, social, and cultural features of the Muslim world and discusses the geo-strategic and cultura 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 developmen ond law, and the telleculd

## NTA 205

Middle East History
Credit Hours: 3
his course is designed to cover the history of the Middle East from 1500 to the present with the purpose f understanding its people, society, culture, and its tures and class discussions through which we will examine the economic, intellectual, political, social, cultura and religious changes experienced by the people of the arious countries that constitute the Middle East. Importan hemes to be covered include:
Ottoman society and politics, western imperialism and the 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 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 206

Credit Hours:
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, political economic, social and cultural phenomena, such as transnational social movements, internationa organizations, political economy and security. This semina will attempt to answer fundamental concepts such as questions: What is globalization? Is it truly a new? Is it actually global? Does it represent a threat to national overeignty? What are its implications for domestic policy making?

## NTA 209

## Slam and the We

Modern nation-states appeared first in Western Europe. The characteristics of such an institution-such as middle-class ascendancy, centralization, nationalism, urbanization, industrialization and modernization - were ana the ornisg the nineteenth century when Europe began to colonize the world, then later in the wentieth century when the two super-powers, Russia and USA (themselves extensions of European civilization), divided the world between them, and today with Islamic undamentalism representing a challenge to Western modernity, the patterns of development and progress in the slamic world have been greatly influenced by the example European countries, particularly England and France and later by choice of westernizing indigenous rulers, the slamic world has been subjected to westernization. This course discusses the historical relationship between the West a
Prerequisit

## NTA 296

## International Or Credit Hours: 3

This course deals with the historical evolution of political and international systems, and the various forms international organizations have taken over the past century. It raises conceptual questions about internationa organization and goes into details in regards to the lations, European Union, Arab League and similar international entities. Of particular interest will be the majo international issues of concern to these organizations, such a peace and security, the environment and globa warming, economic development and poverty, and human

## INTA 300

Chinese Society and Politics in the 21st Century Credit Hours:
Over the past decade, China has rapidly emerged as a major force in the world economy, and an increasingly important player in international politics. In order to better understand how China came to be in this position and its growing impact on the rest of the world, this course will provide students with an interdisciplinary understanding of China's recent history, domestic politics, society, and economy. The course will then focus on China's foreign East and the Gulf in particular.

## INTA 301

## Islamic Political Thought

Credit Hours: 3
This course investigates how Muslims - both religious and secular - have thought about Islam and its role within politics in various parts of the world during the
nineteenth and twentieth century. By examining 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 reigious and secular ideas about Islam have evolved in and an authentic Islamic identity in the modern period

## INTA 302

## Politics of Oil <br> \section*{Credit Hours: 3}

This course examines the impact of oil politics on society and social development. The main focus will be on the modern history of major oil producers in the Gulf region and around the world, from the Iranian revolution to the recent conflict in Iraq. In particular, this course will analyze the relationship between oil, foreign intervention, nationalism, 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, reformations and transformations of social, cultural and political institutions. The class is an as history, political science, economics, and sociology

Prerequisite:
INTA 102 AND INTA 103

## NTA 305

## Internship

This is an innovative cross-cultural course that allows students to explore the relationship between the Muslim/ students to explore the relationship between the Muslim/
Arab world and the West. Through the Soliya program, Students will be grouped together with other students from the United States, Europe, the Middle East, and North Africa. Students will have the opportunity to explore the relationship between the Arab/ Muslim world and the West via online dialogue sessions. The goal of the cours is to improve awareness and understanding of other through this intercultural dialogue. The course is taught in conjunction with Soliya (www.soliya.net).

## INTA 306

## Gulf Studies

Credit Hours: 3
This course explores the eight political systems located in he oil-rich Arabian Gur. The course willocus on the clas secularism in this unique part of the world.

## NTA 308

## 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 energy efficiency and control of pollution across countries, global warming and the role of energy in the international economy.

## NTA 313

## culture and Politic

Credit Hours: 3
The purpose of this class is to introduce students to the heoretical debates, critical methodologies and theorists of the field of culture and politics, with particular attention 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 nationhood in terms of their social and historical contexts.

## Prerequisite

NTA

Dialogue Across Societies and Civilization Credit Hours:
his is an innovative cross-cultural course that allows tudents to explore the relationship between the Muslim Arab world and the West. Through the Soliya program, from the United States, Europe, the Middle East, and North Africa. Students will have the opportunity to explore the relationship between the Arab/Muslim world and the West via online dialogue sessions. The goal of the course is to improve awareness and understanding of other societies. Students will examine their perception of 'other,' through this intercultural dialogue The course is taught in conjunction with Soliya (www.soliya.net)

## INTA 345

## The Arab-Israeli Conflic

Credit Hours: 3
This course will survey the social, political, and ideological origins of the Arab-Israeli conflict. Looking specifically at nationalism and Zionism, and how these forces shaped th region and the conflict Moving beyond the causes of the conflict, this course will also look at the different attempts at peacefully resolving the conflict. This course will also explore the role of major players, such as the US, France, UK, Russia, and Iran in the conflict.

## INTA 350

## Policy of the United States

Credit Hours: 3
his course offers a survey of the foreign policy of the United States since the American Revolution. It aims to show the themes that underpin its foreign policy through adopting a case study approach on the role of the United States in its foreign affairs and includes both World Wars, the Cold War era, in addition to the role it has in the contemporary era, including the wars in Afghanistan and Iraq.

## INTA 401

## 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 he course students will demonstrate their understanding the course students will demonstrate their understanding current problem of their choosing through the lenses of two of the theoretical perspectives discussed in class.

Prerequisite:

## NTA 103

## INTA 403

## Security Studies

Aims to develop a working knowledge of the theories and conceptual frameworks that form the intellectual basis of security studies as an academic discipline. Particular emphasis on balance of power theory, organization theory civil-military relations, and the relationship between war and politics. The reading list includes Jervis, Schelling, write a seminar paper in which theoretical insights are systematically applied to a current security issue.

## Prerequisite

NTA 103
INTA 404
Gender \& law
General survey of law as it relates to women, including constitutional rights inheritance laws, civil rights egislation, 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 aw as well as contemporary issues across the world.

## NTA 405

## Gender in

Credit Hours: 3
Explores gender construction and identity formation in international perspective. Case studies may be drawn fom Africa, Asia, the Middle East, Latin America, and the Caribbean. Topics include theories and methodologies for examining gender relations in cross-cultural perspective, political and socio- economic status of women, gende deologies and symbolic representations, women's activism.

## INTA 411

## 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 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 capstone will be to consolidate analytical skills, expand written and oral communication, and gain practice in undertaking more
focused and sophisticated methods of research. Topics will vary from year to year depending on who is teaching include human rights, global warming war against errorism, world trade world poverty and other issues

## Prerequisite: EDUC 201

NTA 415
istory of the Middle East
Credit Hours: 3
History of the Middle East in the 20th Century. This cours 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 examinin he late Ottoman Empire and close with the events of $9 / 11$ and their aftermath. Readings will include historica surveys, novels, and primary source documents.

## INTA 420

## Tonflict Reso <br> n and Human Rights

his course provides a solid foundation in the theoretica basis of conflict studies and human rights. The course will dopt a thematic approach where both the dynamics of ondicts and the human rights issues from national and emational military or humanitarian interventions will be mmuncation and mediation skills through relyant, studies.

Prerequisite
NTA 103

## NTA 433

urope, the Cold War \& World
redit Hours: 3
This course covers the period between the end of the Second World War in 1945 and the events leading to the he development of the Cold War between the United tates and the Soviet Union; the history of the Soviet Union from Stalin to Gorbachev; the economic and politica development of Western Europe, and the transformation of the role of Western European countries in the world hrough the process of
France, Germany and Italy Studes on Nationalism in sense of inquiry and develop sharper communication and writing skills through the writing of research papers, class and group discussions and presentations

## NTA 440

## olitics of Development

Credit Hours: 3
his course introduces students to the broad theories of development and their critiques. The focus is on development in the Global South. The course will place a regional emphasis on Asia, Africa and Latin America. We will begin by examining the contested concept of "development" itself. We will look at the history and natur of colonialism and its legacy of poverty and inequality. In the second section we will examine mainstream The final section of the course will explore key substantive topics and debates in the field.

## NTA 450

## Ethics of International Relation

Credit Hours: 3
Over the last years, ethics in international relations has witnessed increasing importance and significance within due mainly to the complexity and gravity of contemporary problems and challenges related to wars and conflicts, weapons of mass destruction, poverty and inequality, violation of human rights and humanitarian intervention, globalization and economic crises, justice and governance, environment and ecological issues, migration and cultura diversity. In this respect, this module entitled "Ethics and International Relations "fffers a comprehensive outlook international politics. The course will include a wide rang of representative academic approaches and ideological movements in modern and contemporary international relations such as Realism, morality and law, wars, pacifism, nationalism, Internationalism, Communitarian and cosmopolitanism, seeking to better

## NTA 460

## nternational

This course will explore the history and evolution of some of the greatest challenges to human health. We consider he origins of epidemics, broadly defined, and the factors -rooted in biology, social organization, culture and politica 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 ncient and contemporary. Texts include eyewitness the sick who search for treatment or cures; the politicians, administrators and communities who try to prevent or contain disease at both the local and international leve 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 lagues and the recurrent threats of influenza, malaria cholera and the Irish Famine,

## INTA 461

Special Topic
Credit Hours:
A rotating course topic is applied for this course

## INTA 465

## adership

ars
his course examines the concepts and ideas that surround 'Leadership' and 'Civic Responsibility.' lucidates 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. have responded to the understanding of leadership, ambuilding and responibility. Broader questions wis be asked that, that revolve around elite/mass attitudes with regard to rights and responsibilities. A significant aim of this course is to reveal to students the deep?seated beliefs that structure the definition of leadership and their esponsibilities to others

## INTA 470

## Area Studies

This course offers an interdisciplinary examination on a region of the world through a rotating topic focus.

## SLA 101

tudies in Islamic Cree
Credit Hours:
his course would enable the student to get understand 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 and the methodology of Muslim scholars in the field of Aqeedah.
SLA 102
Quranic sciences
Hours: 3
Acquaint the students to the terminologies of various isciplines of the Quranic Sciences and introduce them to he doubts and allegations hurled on the Quran and their rebuttals.

SLA 103

## Quranic Exegesi

Credit Hours: 3
lond objectives of veral surans of the Quran. The course would also aim linguistic and grammatical principles

## SLA 10

## Sciences of Hadith

Credit Hours: 3
This course aims at familiarizing the students with the science of hadith, its emergence, significance, essentia he field of hadith, with the ability to distinguish between hem (Shaadh, Mahfuz, Mudtarib, Maqlub). It includes the role of scholars in the service of hadith and their varying methodologies and the doubts created regarding the authenticity of hadith and its rebuttal.

## SLA 105

## Analytical Hadith

Credit Hours: 3
Create a sound understanding of the methodologies of the sholars employed in the understanding of the sunnah. Aso enable them to develop the skills of commenting and discussing on issues related to hadith.

## LA 10

## Figh of Worship

This course investigates rules of water,(purities, impuritie and types of the water) and rules regarding prayer It also deals with the rules, basis, conditions, types, and etiquettes of fasting, its Sunan (recommended acts)and Makruhat (disapproved acts), and examines the rules of 'tikaaf.

## SLA 107

Precepts of Fiqh
This course examines the Maxims of Islamic law in erms of definition, emergence and evolution, and deal with Greater and Lesser Maxims and their exceptiona rules theoretically and in detail, and elaborates the contemporary applications, and the most important ancien and contemporary sources in this field.

## SLA 201

Principles of Islamic Jurisprudence
This course examines the definition of Islamic jurisprudence, its development, importance codification, and different methodologies used by scholars of Islamic Jurisprudence in authoring books, and deals with the
original and secondary sources and rules of Islamic law and legal implications of the texts, derivation of the Schools (Taqleed) and issuing Fatwas.

## ISLA 202

## Logic and research methodology

Credit Hours: 3
introduction (definition, emergence, relationship
between logic and language). Understanding the Salient characteristics of scientific (intellectual) thought. Research ellodologi to the study of religions and creods.

## ISLA 203

## Fiqh of Transactions

Credit Hours: 3
his course clarifies the meaning of the jurisprudence o inancial transactions, and talks about the sales contrac in terms of its basis, conditions, types, effects and of al-salam (advanced payment sale) al-lijara (leasing) al-wakala (Agency), al- Sharika (company), al-Musaqat, Muzara’a (crop sharing), al-Ju'ala (Wages) and al- Daman (warranty).

## ISLA 204

Sufism and Ethic
Credit Hours: 3
he objective of this course is to acquaint the student with an understanding of tasawwuf with its theoretica behavior and in accordance with the Islamic Shariah. The students would also be introduced to models of this mode of practical behavior and lastly the role of tasawwuf in traditional Islamic civilization

## ISLA 205

## Itellectual

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 studen to analyze the forward march of Islamic Civilization and understand its leanings as well as the role of scholars in he dissemination of Islamic Thought.

## ISLA 206

## The objectives of the Sharia

This course deals with the emergence of the purposes of the Sharia theoretically and examines the definition of the Maqasid and its types, grades, and their importance, and elaborates its role in derivation of legal opinion through

Tarjih (preference of one opinion over the other) and lustrates the most important ancient and contemporary tudies on al-Maqasid

## SLA 207 <br> SLA 207

## Credit Hours: 3

This course aims at introducing the student to the principles of Quranic recitation and the aims and objectives of the smaller surahs of the Quran. Memorization of several verses and chapters from the Quran. Deriving the principles from Quranic verses

## SLA 209

## slamic Studies in Contemporary Thought

 Credit Hours: 3The course aims at enabling the student to understand the important milestones of contemporary thought and compare it with modern Islamic thought

## SLA 210

## Thematic Hadith

introduction to a number of comprehensive ahadith and the way to derive benefits related to the narration. Analysis of the hadith with respect to its narration and text.

## SLA 211

slamic Studies in Legislative and Legal Though Credit Hours: 3
his 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 lerms of source, characteristics, strengths, universality and binding force.

## SLA 212

## slamic Penal Code

redit Hours: 3
his course deals with definition of crime and punishmen and describes the general principles of Islamic criminal aw; examines retribution in the murder or other crimes and elaborates the punishment for adultery, slander, drinking, theft, apostasy, banditry and punitive sanctions.

## SLA 301

## Contemporary Methods in IS

Credit Hours: 3
The importance of methodologies in Islamic Studies and the Methodological Heritage of Muslims. Methodology of Future Studies. Importance of observation. Islamic Studies in the age of globalization. The impact of modernism an d
post-modernism on Islamic Studies
Prerequisite
SLA 102 AND ISLA 201 AND ISLA 104 AND ISLA 103

## ISLA 302

## Family law Credit Hours:

This course describes the marriage contract, its conditions,
effects, unmarriageable women, engagement, the
elements of choice (of wife), and the rule of al-Zawaj al-U
customary marriage), Misyar and the friend marriage. It
and wife, Idda (period of waiting), and the consequences
of separation such as its compensation, maintenance,
accommodation, and descent.

## ISLA 307

slamic Constitutional and Administrative Law redit Hours: 3
The course covers the importance of the State and its ature, the Imamate, sovereignty, governance, the source attributes. It also studies rights and public freedom, the principle of consultation and obedience, legislation and codification in the Islamic state

## ISLA 308

## ntemporary Intellectual Trends

## redit Hours: 3

Apprise the student of the most significant contemporary ends 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 esearch skills around the intellectual trends and try to iscern the general framework in which these trends are born and work.

## ISLA 401

## Graduation Projec

redit 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 bught and accept and tolerate difference of opinion and difference of opinion and

LA 202

## JAPN 101

## Japanese I

Credit Hours: 3
This course will introduce basic Japanese speaking
istening, comprehension, reading, and writing grammar. It will cover the basic structures of Japanese language and ocus will be placed on learning the alphabets and reading simple passages written in Hiragana, Katakana and Kanji. An additional feature will be to provide contextua understanding of Japanese culture. During the course emphasis will be placed on the accuracy and fluency in both spoken and written Japanese communication. situations such as making requests, or basic descriptions. The listening component will focus on how to understand what others say in daily conversations. As an integral part of the course, exposure to Japanese culture will be embedded to foster grammatically correct and socially appropriate use of language.

## JAPN 102

## Japanese II

This course will continue the basic Japanese speaking stening, comprehension, reading, and writing gramm 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 dialogue on intentions and desires. The purpose will be to achieve an intermediate level of understanding of Japanese language.

Prerequisite:
JAPN 101
KORN 101
KOREAN I
This course will introduce basic Korean speaking, listening comprehension, reading, and writing grammar through 2 units includes illustrations, audio visual materials on opics 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 an 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.

## KOREAN II

Credit Hours: 3
his course will continue the basic Korean speaking, stening, comprehension, reading, writing and gramma expands on the fundamentals and grammatical eleme f Korean. The course explores other common addition meanings for popular terms. Continued emphasis will be placed on conversation and listening skills and reading and writing skills
By the end of the course students should be able to express probability, state opinions, give reasons and will be to achieve an intermediate level of understanding intermediate level of understanding of

Prerequisite
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## n to Law

redit Hours: 3
his 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 ith the cony of rights. The first part will be conceres classifications and scope of application and interpretation flaw 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

## LAWC 102

## Human Rights Credit Hours:

Credit Hours: 3
This course will discuss two broad issues about human rights. The first is the theory of human rights in nationa and international instruments; this part will cover the (i.e. civil, political, social, economic and cultural rights) The development of these rights in both national and international regimes will be examined. The second part of this course will deal with the concept of international humanitarian law, its role in the protection of victims of war and its definition and relationship with the work of the ICRC. The main treaties are the four Geneva Conventions 1949 and their Additional Protocols as well as the Hague

LAWC 111
Legal Research \& Writing
Credit Hours: 3
This course is a series of exercises introducing students
ot the way lawyers analyze and frame legal positions in litigation, conduct legal research, and present their wearn research and writing skills by preparing initial and inal drafts of memoranda and briefs and by becoming amiliar with accessing both print and electronic research materials.

## Prerequisite: <br> LAWC 101

## AWC 112

## Sciences of Crimes\&Penalties

A general introduction to the study of criminal behavior from an interdisciplinary perspective. The main focus is on he classical and contemporary theories developed from he past until current time, to explain and predict criminal behavior in societyand, as well as examining associated penalties. In addition, the ability of these theories to explain criminal behavior in different cultures will also be examined. Other issues in criminology, such as the role of demographics (age, race, gender, social class) in the causation of reaction to crime.

## LAWC 113

## international Humanitarian Law

Credit Hours: 3
This course will deal with the concept of internationa of wars and its relationship with the work of victims The main treaties are four Geneva Conventions of 1949 and their additional Protocols, as well as the Hague Conventions. This course is to be differentiated from other elated topics such as the international law of human rights.

## AWC 202

## Public Finance <br> Public Finan

his course deals with the concept of public finance, the fscal role of government and its evolution, the public budget and its preparation, its laws, principles and kinds. Pubic budget encompasses studying public expenditures: definition, evolvement determinants, implications, etc. The course addresses also the main sources of revenues suc as state property, fiscal charges, public loans and taxation. This is in addition to fiscal policy

Prerequisite
LAWC 101
LAWC 213
Sources of Obligations

Credit Hours:
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 obligations include: (1) Contract, (2) Unilateral Will (3) Tot liability, (4) Unjustified Enrichment and (5) Legislation

## Prerequisite

AWC 101

## AWC 214

## ffects of Obligatio

## Credit Hours: 3

This course deals with the legal regulation of the effects of obligations and the means of their implementation whether oluntarily or under compulsion. The course also covers the grounds under which the effects of obligationd

## Prerequisite

## LAWC 215

Business Law
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 eneral introduction to the Qatari legal system, this ourse will concentrate on specific legal topics such as
Ithough 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:

NGL 004 OR ENGL 202 OR CBT 173 OR IBT 061 OR IELT 5.5 OR TO2 500 OR ENGL 111

## AWC 217

Commercial Law
This is an introductory course to all other advanced commercial law courses. It provides the students with he general principles of commercial law; its concept characteristics, development and sources. It will also study he legal concept and theory of commercial transactions and that of traders in the 2006 Commercial Code of Qatar The legal status and rules of commercial premises and ourse shall also introduce students to the most common ontracts of commercial nature such as the contract of sale and the contract of commercial agency.

Prerequisite
AWC 101

## AWC 222

Constitutional Law
his course studies constitutional law; its nature and its relationship with other branches of law, the definition of he constitution, its sources, kinds of constitutions, their origins and developments, the diminishing relative value of constitutions and the means for protecting them through the state; its legal attributes, systems of government, the concept of government and its various types with samples f 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 civi and political rights and liberties

## LAWC 223

## Legal Writing II

In Legal Writing II, students will build upon the foundation provided in the earlier course Legal Writing I. Students wil write memoranda based upon legal research provided to hem and test their understanding and writing skills. The ab component of this course aims to equip law students with the ability to communicate using the advanced echnical English language required to practice law an acadenic legal study in English. Through training in nable students to apply their abilities in every aspect academic study and in the practice of law in any industry.

Prerequisite:
AWC 111

## AWC 250

## Family Law

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 his law, in particular the provisions of marriage, divorce, financial provision, guardianship.

## AWC 253

Anglo-Ameri
This cours of the main legal systems of the world, in comparison with the Civil Law legal system.

## LAWC 302

## Advocacy Skills

This course will teach the practice skills used by lawyer in representing clients. It will develop lawyering skills and will address skills related to legal writing, oral advocacy, negotiations and counseling through readings, lectures

Prerequisite

## LAWC 314

## Law of Civil Contracts

Credit Hours: 3
The legal system of the State of Qatar follows the Latin distinction between civil and commercial contracts. This ourse will, therefore, follow this distinction and study between such contracts and non-nominated contracts. 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 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 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 316

Law of Procedures in Civil and Commercial Matters 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

## Prerequisite

## LAWC 321

## Administrative Law

## Credit Hours: 3

This course deals with the definition of administrative law, its sources, the actions taken by the public administration in implementing the laws, administrative control, the administrative decisions, and administrative contracts (public procurement), all of that will be studied in the light of the Qatari Legal System.
Prerequisite
LAWC 101

## AWC 323

## Criminal Law I-Ge

his course deals with the general theory of crime and punishment. The general theory of crime contains the definition, types and elements of crime. The course will focus on the concept of the material and mental element of crime (actus reus and mens rea). It deals with the mission attempt; causation; complicity; intention and recklessness. The course will also highlight of the causes of permissibility like the Legitimate Defense, the use of authority and the right of exercising some activities. The course will deal with the capacity and incapacity conditions of the person: the age of criminal responsibility, insanity, intoxication, In addition, the course addresses the general theory of punishment. It deals with the definition, purposes, and it termination. At the end the course will give some focus on the general theory of criminal preventive measures.

Prerequisite
LAWC 101

## AWC 324

Criminal Law II-Pr
Credit Hours: 3
Credit Hours: 3
his course deals with the two major classifications definition, elements and punishment of each crime. First, crimes against the public interest: such as crimes against the state (treason, espionage, conspiracy); crimes agains
the administration and public property (corruption, bribery) ; justice crimes (contempt of court) ; crimes against public 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, robbery, fraud, computer and intellectual property crimes.

## Prerequisite

## LAWC 329

## Commercial Papers and Banking Transactions

 Credit Hours: 3This 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 framework of the most common banking transactions from both international and national perspective.

## Prerequisite:

LAWC 214 AND LAWC 217

## LAWC 330

## diments and Criminal Appealing Mean

 Credit Hours: 3his 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 o first instance judgments, or extraordinary means, namely; cassation and request for reconsideration. It also highligh
criminal judgments that could be subjected to appeal, parties who have the right to appeal, times and procedure of appeal and the legal effects of the appeal.

## Prerequisite <br> LAWC 324

LAWC 333
Law of Electronic Commerce
This course will introduce the students to the main legal sues of electronic transactions in the light of both nation 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. Thes issues span a broad range of subject matters, includin lectronic payment systems, privacy jurisdiction, ompetition, torts, alternative dispute resolution, and taxation.

## Prerequisite

AWC 217

## AWC 335

ntellectual Prop
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, the rules of the law that protect intellectual properties in also examine property such as the Bern Convention, the Paris Convention and the TRIPs.

## LAWC 339

## Public International Law

Credit Hours: 3
This course will introduce the students to the definition, egal binding character, sources, and branches of publi international aw. It will also deal with different aspec question of international recognition of a state, the states esponsibility, succession and means of international disputes settlement.

## AWC 345

nternational Trade Law
Credit Hours:
This course examines international laws and institution that govern foreign trade, including the World Trade Organizations (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:
AWC 217

## orporate

This course deals with the commercial company law in the State of Qatar in the 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 merge take over and liquidation of all types of companies.

## Prerequisite

## LAWC 350

## Maritime Law

Credit Hours: 3
This course aims at dealing with different aspects of maritime law such as; it's definition, characteristics,
history and sources It also deals with the legal nature 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 study 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 Judiciary

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 it 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 or government.

## Prerequisite:

LAWC 321

## AWC 352

Anti-Corruption La
Credit Hours:
This course deals with corruption crimes in the Qatari egislation such as bribery offenses, misappropriation and other crimes related to public fund. The course also discusses laws and regulations relating to such crimes, 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 to the corruption offenses, according to the relevant international conventions such as the United Nations Convention Against Corruption, Arab Convention Against Corruption. Moreover, the course addresses the causes of corruption and its types, the regulatory agencies and heir role in the fight against corruption, mechanisms for promoting integrity, and the realization of the principle of transparency.

## Prerequisite:

## LAWC 353

## Redit Hours: 3

The course will examine the main principles of debt securities in the Qatari Civil Code. It covers the concept, lements, condtions and legal effects of all types of real personal securities such as guarantees.

## Prerequisite

AWC 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
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 crimes and the organizations in charge of implementing
actions as a result of such disclosure and Investigating an prosecuting of perpetrators. The importance of studying being the lifeblood, especially in the state of Qatar which is witnessing a great economic development, possibly accompanied by some abuses and violations committed by some individuals in their endeavor of economic and business activities. This situation obliges students to understand the principles and laws which relate to economic crimes within modern Qatari laws dealing with the prosecution of the perpetrators of these kinds of crimes.

Prerequisite

## LAWC 407

## Special Topics <br> Credit Hours: 3

Selected topics from specialized topics of law aimed at deepening students skills and knowledge toward developing law specialties.

## LAWC 408

## Special Topics Credit Hours:

Selected topics from specialized topics of law aimed at deepening students skills and knowledge toward developing law specialties.

## LAWC 409

## Externship

The externship will give students the opportunity to work for academic credits with judges, lawyers, in-house counsels and other agencies. In these places, students may do legal research and writing; they may conduct client interviews, or they may make court appearances this uncompensated work, they engage in a supervised whorial which allows them to reflect and learn from their experience.

## Prerequisite:

LAWC 111
AWC 411

## Real Rights

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 Qatari relevant legislation.

## Prerequisite

## LAWC 214

## LAWC 413

## 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 sh also cover the legal remedies for multinationals and legal status of foreigners residing on the State of Qatar This course deals also with the concept, development, nature, sources 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 public order in Private International Law. The course also examines legal rules set up to determine the competent oreigners or of international character.

Prerequisite:
Prerequisite
_AWC 213
LAWC 414

## aw of Civil Contracts II

## redit Hours:

The course will concentrate on two other contracts nominated and regulated by the Civil Code, in particula
the Mogawleh contract (contract to perform works for thers), and the contract of agency. All aspects of thes contracts will be examined including their formation, elements and the obligations arising there from.
Prerequisite:
AWC 214

## AWC 422

Credit Hours
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 aw. It focuses on the pre-trial procedures: the arrest (with and without warrant); investigation; seizure; wiretapping; witness; interrogation; expertise; preventive detention; 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 Qatari the criminal justice system.

## LAWC 430

## Practical Criminal Investigation

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 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 including 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, rocks and soil analysis. It also focuses on defining oth correlated sciences that are well connected with criminal investigations such as: forensic medicine, criminal chemistry, DNA test, and fingerprints 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, enficalion evidence, drowing, su,

## LAWC 422

## LAWC 433

## Oil \& Gas Law

Credit Hours:
This course examines the history, development and egal nature of agreements and contracts of exploration special legal distinctiveness of thes. It focuses on the in the Arab Gulf States including the State of Qatar. Th 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 feature aternative means of settlement of Oil and Gas disputes, especially arbitration and conciliation

## Prerequisite

AWC 101

## AWC 443

nternational Criminal Law

## Credit Hours:

This is a new advanced course dealing with the international crime, which includes the violation of
international order and values. It has doubli 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 he international crime. The course deals with the genera elements of the international crime and the causes o 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 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 AWC 323

## AWC 449

## Environment Laws and Regulations <br> \section*{Credit Hours: 3}

his new course deals with national and international aws and regulations which protect environment from degradation and pollution and the effectiveness of these legal instruments in achieving this goal.

## AWC 450

## aw of Proce

## 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 of proof: writing, testimony, oath, declaration or confession, presumptions, expertise and inspection. On the other hand, the course will explain the general theory and practice of compulsory enforcement procedures of legal judgments, arbitral awards, commercial papers and other enforceable instruments by the judiciary (i.e. the enforcement court).

Prerequisite
_AWC 451
Altenat Dispute Resolutions
Credit Hours: 3

This is an advance course which will examine the theory and practice of international commercial arbitration in both govern arbitration agreements, arbitral tribunal arbitral proceedings and arbitral awards. A considerable weight must be given to the New York Convention, the UNCITRA Model Law and all regional and international instruments to which the State of Qatar is a party.

## Prerequisite <br> AWC 217

## LAWC 459

Drafting of Business Contract
his is an applied course which is intended to provide he students with the necessary legal English writing and negotiation skill
management.

Prerequisite
LAWC 217

## LAWC 460

Credit Hours:
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 the use of inerna onal faw. Sudens will continue to st their persuasive writing skills, by preparing argument for both sides of a legal issue as they participate in the writing of an appellate and appellee brief. They will also
be introduced to the 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 a Qatar University College of Law Moot or a regiona assignments will be dictated by the requirements of a particular moot court competition and students will e expected to work on assignments throughout the semester. Top performing students may be in
Prerequisite:
AWC 111 AND LAWC 223

## LAWC 464

nternational In
his course introduces the students to the concept, origin and roles of the law of foreign investments; national tandards v. international minimum standard; Internationa
efforts to regulate foreign investment (e.g. United Nations efforts, Efforts made by the World Bank, OECD efforts of investments under bilateral and regional investment reaties (BITs) and the national case law on the treatmen of foreign investment.

Prerequisite:
AWC 217

## AWC 480

Credit Hours:
Moot Court Il has two main goals. One goal is to continue 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 nitially focus on analyzing legal authorities and issues so as to be able to present effective oral arguments to a udicial or arbitral panel. Students will then continue to develop their legal analysis and research skils, as well egal arguments related to international legal disputes rom 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 represe weeks o

## Prerequisite AWC 460

## LAWC 484 <br> \section*{GCC Law}

redit Hours: 3
This course discusses the developments, institutions, and egislative issuance mechanisms of the Gulf Cooperation and executio explains the Council's economic treaties 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 will study th ourse are expected to recognize the theories, concepts, and private principles of GCC

## LAWC 499

Legal Ethics
Credit Hours:
This course is intended to cover rules and principle
those involved in legal profession. It begins with 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 associates, the effect of a law firm's culture on the abilly morally while remaining within the bounds of legal ethics.

## Prerequisite:

Law

## MAGT 101

Principles of Managemen
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 ENGLF073 OR ENGL F022TOEFL_Inst Testing Prog 500 OR TOEFL Internetbased Test 061 OR Int Eng Lang Test Syst-IELTS 5.5 OR TOEFL Computer-based Test 173 OR OR ENGL 040

## MAGT 301

## Organizational

redit Hours: 3
his course examines the behavior of individuals and groups in organizations. Among the topics covered include contingency variables influencing structure, leadership and workgroups.

Prerequisite
MAGT 101 OR MAGT 112

## MAGT 302

## Human Resou

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 training and management development performance appraisal law, information systems, and current issues.

Prerequisite
MAGT 101 OR MAGT 112

## MAGT 303

## Entrepreneursh

his course focuses on the entrepreneurial process and he different kinds of entrepreneurial outcomes. Topics covered include opportunity identification through analysi of industry niches, skills needed in order to turn an opportunity into reality, business plans, launch decisions, and obtaining risk capital.
Prerequisite
FINA 201 AND MAKT 101 AND ECON 112 AND FINA 201 AND MAKT 101
ACCT 116 OR ACCT 112)

## MAGT 304

Production \& Operations Mgm
Credit Hours: 3
This course focuses on the production function in industrial organizations. Topics covered include various techniques utilized in decision making, production systems, and activities related to the design of systems, product design, planning as well as production and quality control

Prerequisite
MAGT 101 OR STAT 155) AND (STAT 220 OR MAGT 112 )

## MAGT 305

## Comparative

## Credit Hours: 3

This course focuses on the analysis of managerial performance in different cultures. Topics covered include he examination of the international dimensions of organizational behavior in different countries and the varying socioeconomic, political, and legal variables hat interact with culture to affect local and internationa management.

## Prerequisite <br> MAGT 304

## MAGT 306

International Business
International Bus
Credit Hours: 3

This course focuses on the management of business across national borders. Topics covered include the
characteristics of international companies, theories of international trade and investment, cultural social economic, political and financial environments of international firms as well as the international dimension of the basic enterprise functions such as finance, production, marketing and personnel.

## Prerequisite

FINA 201 AND ECON 112

## MAGT 307

## nternship in Business

Credit Hours: 3
This course focuses on business internships that add a significant real-world component to students' education. It provides the opportunity for students to earn academic credit while gaining valuable work experience under the mentorship of a business professional in different industry sectors, i.e., services and manufacturing. An individualize argizations providing guided experience in their field will be given. IStudents' internship experiences are assessed via a written internship report that will be evaluated by the tudents' organization supervisor and an assigned faculty member.

## Prerequisite:

MAGT 304 AND (ACCT 116 OR ACCT 112) AND (ENGL
51 OR ENGL 52 OR ENGL 202 R ENGL F073 OR ENGL F022 OR TOEFL IBT 061 OR TOEFL 500 OR IELTS 5.5 OR TOEFL CBT 173)

## MAGT 328

## Business Plann

The course offers an introduction to the process of turning new product idea into a successful start-up enterpris It focuses on management processes related to the
dentification 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 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 how to use well-researched theories about strategy nnovation and management to understand why thing 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
MAKT 101 AND FINA 201 AND ACCT 110

## MAGT 401

## Quantitative Method

his course focuses on the use of quantitative methods managerial decision making. Topics covered includ decision theory, introduction to linear and non-linea programming techniques and their applications in brogramming, simulation, integer programming, dynamic theory, PERT, CPM and other quantitative methods for decision making.

Prerequisite
MAGT 304 AND STAT 222

## MAGT 402

## Organization Theory

Credit Hours: 3
This course examines the different theories of organizatio and how they are used in managing today's organizations. Topics covered include strategic and applied approach to organization theory that emphasizes decision-making A balance of theory, research, and practice, focusing on how students as potential future managers can use the knowledge of organization theory to be better manager and organization members to be presented.

Prerequisite
MAGT 301

## MAGT 403

## E-Business

Credit Hours: 3
This course focuses on issues beyond the extraordinary growth in e-commerce and the high level of dotcom failures to appreciate the continuing changes in the digita are twofold: firstly, to appreciate the context for e-business, and secondly, to develop a framework for considering e-business initiatives and possible future development. Topics covered include the concepts of e-business
and e-commerce, internet market research, models of e-commerce, intranet and extranet, electronic paymen tusiness infrass stralegy and imation

Prerequisite
MIST 201 AND MAGT 306

## MAGT 404

Project Managemen
Credit Hours:
This course focuses on the various issues and techniques managing a project. Topics covered include project life 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 Manageme

Strategic Mana
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
 implementation and control, and other strategic issues.

## Prerequisite

FINA 201 AND MAKT 10

## MAGT 406

Credit Hours:
his course focuses on the concepts related to quality in on the customer Topise operations with special emphasis of workers' participation, teamwork and creative leadership, quality control, training, tools of total quality and obstacles facing total quality management.

## Prerequisite MAGT 304

MAKT 101
redit Hours: 3
his course focuses on the basic concepts of marketing Topics covered include definition of marketing, evolution
of marketing concept, basic issues facing marketing in he contemporary organization in addition to consume
bhav
MAGT 101 OR MAGT 112

## MAKT 301

## Consumer Behavio

Credit Hours: 3
This course focuses on examining an interdisciplinary study using behavioral science concepts to explain consumption behavior. Topics covered include information processing, involvement, affect and emotion, attitudes and attitude change, individual factors (e.g., personality), group processes (e.g., reference group and family/ household influences), social influences (e.g., culture and subcultures), and consumption decision and post-decisio processes. The relationship between each of these factor and maketing strategies will be a point.

Prerequisite

## MAKT 101

## MAKT 302

## Marketing Managemen

redit Hours: 3
his course focuses on the application of marketing and management principles to the marketing function. Topics and economic environment of marketing as well as the management of marketing mix.
Prerequisite
MAKT 101

## MAKT 303

## nternational Marketin

Credit Hours: 3
This course focuses on the policies and techniques adopted by a firm to select and utilize opportunities in the matret and adapt its marketing strategies to suit the international environment.

## Prerequisite

MAKT 101

## MAKT 304

Strategic Market
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

## MAKT 401

## Marketing Research

Credit Hours:
This course focuses on the techniques used in conducting marketing research and their applications in solving and designs will be covered. students will also learn how to collect analyze and interpret data to better mak decisions and address marketing problems.

Prerequisite:
MAKT 101 AND STAT 220

## MAKT 402

## gemen

aredit Hours: 3
his course examines the role of sales managers in lin nd staff planning. Topics covered include selection,
organization, supervision, compensation, motivation of the unctions
Prerequisite:
MAKT 401 OR MAKT 302

## MAKT 403

-Marketing
This course examines the changes in marketing resulting from the move to the Internet by nonprofits, businesses, and government. It highlights the effective interactive arketing practices for consumer firms and business-to business firms.

Prerequisite:
MAKT 401 AND MAKT 301

## MAKT 404

## Services Marketin

redit Hours: 3
his course focuses on the unique characteristics of the service environment, adapting marketing managemen overs identifying and analyzing the various componen of the extended services marketing mix and discussing key issues concerning the management and measurement of service quality and customer satisfaction. It provides an understanding of the critical role of service personne
and customers with respect to service delivery, service failure, and service recovery. It also examines relationship and human resource functions in service organizations

Prerequisite:
MAKT 301

## MAKT 405

## Promotion Management

redit Hours: 3
his course focuses on developing an understanding of he terminology of promotion and an understanding of the ability to integrate the different aspects of advertising into a comprehensive promotional plan.

## Prerequisite <br> MAKT 302

## MAKT 406

## usiness to Business Marketing

This course is intended to provide the student with the managerial aspects of industrial and business -to-busines 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.

Perequisite
MAKT 301 OR MAKT 302

## MARS 101

## ntro to Marine Science

Credit Hours: 3
History of Oceanography - The origin of Earth, its oceans and life in the ocean - Marine provinces (continenta 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 oceanHuman interacts. Practical: Basic units - Ocean depth measurements - Bottom topography - Marine sedimentsWaves and currents - Tides - Chemical constitutes of selected specimens which represent different groups marine organisms

Prerequisite
BIOL 101

## MARS 222

hemical Oceanography
edit Hours:
is an introduction to explore the chemistry of the ocean ncluding the chemical composition, reactions taking place he chemical cycles kird dyetics. The course focuses on issolved gases stochiometry and extends to cover the chemistry of some specific marine environments.

## Prerequisite

MARS 101 AND CHEM 275

## MARS 251

## Marine Biology

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 lypes such as, intertidal and sub-tidal habitats, estuaries, salt-marshes, coral reefs and mangroves.

## Prerequisite MARS 101

MARS 325
Marine Pollution
redit Hours:
This course covers types and sources of pollutant and their impact on the marine environment. The course focuses on how human activities have induced hanges to the marine environment, though discharge of anthropogenic chemicals including sewage, oil, pesticicial
adioactivity and endocrine disrupting chemicals. The radioactivity and endocrine disrupting chemicals. The course has case studies from disposal, factory wastes, ining, radioactivity and other pollutants, and touches the methods of combating marine pollution and protection of he Arabian Gulf marine environment

## rerequisite:

MARS 222

## MARS 327

Plankton \& Productivity
edit Hours:
his course covers physical aspects of the Ocean nvironment; Chemical composition and characteristics Phytoplankton group; Harmful species and their
distribution; Zooplankton group; Flotation mechanisms; Phytoplankton crop; Factors limiting primary production.

## rerequisite

MARS 251

## MARS 455

## Marine Ecology

he Marine Ecology course is a broad survey of marin organisms and habitats. It focuses on the processes controlling marine ecosystems, communities, and populations, and demonstrates how general ecological principles apply to the ocean. Therefore, although we will be learning some details about marine Biota, our goal wil environments into an understanding of the processes that determine their distributions, abundances, and activities.

Prerequisite
MARS 251

## MARS 458

## isheries and

Fisheries and A
Credit Hours: 3
his course focuses on the population structure in fishes, their reproduction and life strategies, their food equirements and growth. The aquaculture industry; proper aquatic 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 Assess

redit Hours: 3
nvironmental Impact Assessment (EIA) is used to identify he environmental and social impacts of large-scale prior to decision making. EIA can predict environmentar mpacts at an early stage in project planning and design, and find solutions to reduce adverse impacts, shape projects to suit the local environment and communities, and present the prediction and options to decision-makers.

Prerequisite
MARS 251
MATH 101
Credit Hours: 3
imits and continuity. Differentiation. Applications of
derivatives. Integration. Inverse functions. Applications e integral

Prerequisite:
ATH 004 OR MATH P100 OR Scholastic Aptitude est-SAT 550 OR American College Testing-ACT 24 OR (Elementary Algebra 082 AND College Level Math 095 ) AND ( ( ENGL 040 OR ENGL Co02 OR Total for Integrated Core 400) AND (ENGL 041 OR ENGL R002 OR ESL Reading Skills 100) AND (ENGL 042 OR ENGL woo2 OR APL for Writing Workshop 225) ) OR (Total fo SL 500 OR TOEFL Internet-based Test 061 OR TOEFL Computer-based Test 173 OR Int Eng Lang Test Syst ELTS 5.5 OR ENGL 004 OR ENGL 111 OR ENGL 250 OR ENGL 201 OR ENGL 202)

## MATH 102

## alculus II

Credit Hours:
MATH 102 is th
解 nd Engineering students It starts from ther Science anscendental 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 re taken into account. A number of tests for convergence learned this course Taylor and Maclaurin's series are applicable series.

## Prerequisite:

MATH 101

## MATH 103

## termediate Alg

redit Hours:
his course is an elementary course which provides the tudents with the basic concepts and skills about numbers, olynomials and rational expressions along with algebraic bout relations and functions along with sketching graphs of certain functions.

## Prerequisite:

( ENGL 040 OR ENGL 0002 OR Total for Integrated ore 400) AND (ENGL 041 OR ENGL R002 OR ESL Reading Skills 100) AND (ENGL 042 OR ENGL W002 Integrated Core 400 AND ESL Reading Skills 100 AND SL 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-

ELTS 5.5 OR ENGL 004 OR ENGL 110 OR ENGL 201 R ENGL 202

## MATH 104

## Credit Hours: 3

Basic Geometry and Measures (Math104) is meant to strengthen the basic concepts of geometry and measures. This course is very helpful in studying different shapes and their measurements. It begins with concepts of length, mass and capacity, estimating and making measurements using standard merrcunts. It also inclucies topics abo riangles, polygons and areas, circles, solids. Finally ocus on trigonometric ratios: sine, cosine tangent, and their inverses.

Prerequisite:
OR ENGL 202 OR ENGL 111 OR ENGL 201 OR ENGL 250 OR ENGL 004 OR IELT 5.5OR CBT 173OR IBT (APIC 400 ) OR APWS 225OR ENGL W002 AND (ENGL 042 OR )APRS 1000R ENGL R002 AND (ENG 041 OR

## MATH 119

## Business Mathematics I

Credit Hours: 3
This is the first course in the two-semester sequence of introductory Math courses designed to provide CBE knowledge presently in use in the areas of business and finance. Topics studied include: Mathematics of Finance, Systems of Linear Equations and Matrices, Linear Programming, Sets and Probability, Additional Topics in Probability, and Computational Tools in Finance.
Prerequisite:
MATH 103 OR MATH 002 OR MATH 004 OR MATH MATH 103 OR MATH 002 OR MATH 004 OR MATH 21 OR Scholastic Aptitude Test-SAT 500 OR Elementary Algebra 082

## MATH 203

## Basic Analysis <br> 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 solving and covers essential logic and methods of proo Also, it deals with basic set properties, functions, and graphs.

## MATH 211

## Calculus III Credit Hours:

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 their applications are covered in detail. In particular, optimization problems for several variables, areas and volumes using by multiple integrals are stressed.

## Prerequisite

MATH 102

## MATH 213

## Differential Equations

Credit Hours: 3
This course provides an introduction to ordinary differentia equations with some applications. Topics to be covered clude first and higher order differential equations, eigenvalues and eigenvectors, systems of linear firstorder differential equations, Laplace transform and series solutions of linear equations. Upon completion of this ethe st to solve differential equations and to mode


Prerequisite:
MATH 102

## MATH 217

## athematics-Engineering

Credit Hours:
Mathematics for Engineers is a course which introduce some mathematical tools for solving and analyzing ngineering arising in the mathematical modeling in to match the known features ef the eqplication being modeled, as well as to be able to predict the systems behavior in other circumstances. The course integrates heory and applications using a problem-based approac ration to problem solving and decision-making tochnical king, technical

## Prerequisite

MATH 211

## ATH 220

## Fredit Hours:

## This course is required for the Bachelor degree in

Education. This course deals with some fundamentals of ogic and methods of proof. It also deals with basic set properties, functions, and graphs.

Prerequisite
MATH 101 OR MATH 103

## MATH 221

## Business Mathematics II

his course covers some economic applications of mathematical concepts such as the linear and non near functions, difference equations, partial derivatives, enstrained and unconstrained optimization problems efinite and in integration in addition to mathematics of finance.

Prerequisite:
(MATH 119 ) AND )APLU 100AND APRS 1000R ( APIC 4000R ENGL 040 OR IELT 5.5OR T02 5000 CBT 173OR IBT 0610 ENGL F073 OR ENGL 202 OR ENGL 111 AND (ENGL 004 OR MATH 101) (MATH 119 or MATH 101) and (ENGL 004 or ENGL 11 or ENGL 202 or ENGL F073 or TOEFL Internet-based nst Testing Prog 500 or Int Eng Lang Test Syst-IEITS 5 or ENGL 040 or (Total for Integrated Core 400 and ESL Reading Skills 100 and ESL Language Use 100) )

## MATH 222

## Real Analys <br> Credit Hours: 3

Structure of point sets. Real numbers. Real sequences continuity. Differentiation and mean value heorem. Riemann integral. Riemann-Stieltjes integral.

Prerequisite
MATH 220

## MATH 231

 Linear Algebra Credit Hours:This course introduces the basic concepts of linear algebra, including elementary matrices, solutions of linea eigenvalues and eigenvectors, linear transformations.

## Prerequisite:

## MATH 23

## Abstract Algebra

This course gives fundamental concepts of algebraic structures and their applications through the study of groups and rings. This course leads the students to think clearly, via problem solving, and to appreciate the power of abstraction. The course starts with the simple idea of a Relation and covers Binary Operations leading to the study f Groups, Cosets and finally an introduction to Rings and Fields.

Prerequisite:
MATH 220

## MATH 251

Mathematics for Statistics
redit Hours: 3
Functions of Several Variables. Multiple Integrals. First
Order Differential Equations. Introduction to Partial
Equations. Numerical Integration Some Special Function

## 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. Majo 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 an by the Society of Acturies and the Casualty Actuarial Society.

## Prerequisite

MATH 102

## MATH 292

## Actuarial Sciences Problems Solving Lab

Credit Hours: 3
his course is designed to equip students with skills and nowledge needed for the professional exams FM and builds on Math 291 and Stat 211 with additional emphasis on probability tools for risk management.

## Perequisite

TAT 211 AND MATH 29

## ATH 312

## Calculus IV

This course covers the following major topics: Line integrals; Surface integrals; Fourier series; Some special functions; and Complex numbers.

## Prerequisite

## MATH 314

## Partial Differential Equation

his course covers first order partial differential equations, second order partial differential equations, elliptic partial rental equations, parabolic partial differential pars, and hyperbolic partial differential equations.

Prerequisite
MATH 213

## MATH 324

## Complex Analys

This course provides an introduction to the theory and application of complex variables and complex functions. The focus is on the fundamental theory as well as on ow this theory leads to efficient integration techniques seful in calculating integrals in a variety of scientific problems. Topics to be covered include complex numbers conditions, analytic functions and properties, elementary functions of complex variables, complex integration
Cauchy's theorem and Cauchy's integral formula, Taylor's and Laurent's series, singularities, residue theorem with pplications to evaluation of real integrals

## Prerequisite

## MATH 335

## Number Theory Credit Hours: 3

This is a first course in number theory. The course starts with the basic properties of integers and covers he Euclidean algorithm, the fundamental theorem of thmeric and he linear Diophetine equations. The course also covers congruences and systems of congruences and elements of cryptography, perfect numbers, Mersenne primes, primitive roots and an introduction to quadratic residues and their applications.

## MATH 341

## Modern Geometr

This course focusses on an introduction to geometry from an axiomatic point of view which provides an important learning experience for prospective teachers of geometry as well as for the students who need to acquire mathematical maturity. The emphasis is on both the geometric foundations and the mathematical proofs Topics covered in the course include axiomatic systems, incidence geometry, axioms for plane geometry, neutral geometry, Euclidean geometry, and hyperbolic geometry.

Prerequisite:
MATH 231 OR MATH 232

## MATH 365

## MATH 365 <br> cientific Computation and Programming

redit Hours: 3
This course cove
rogramming ubscripts in one and integration; Application; Applications in differentiation numeration, Applications in linear algebra; Applications statistics.

Prerequisite:
MATH 231

## MATH 366

## Numerical Analysis

Credit Hours: 3
Errors in numerical computation. Solutions of nonlinear equations. Direct methods for solving linear systems. differentiation Numerical integration

## Prerequisite:

(CMPS 221 AND MATH 102 OR CMPS 223) OR CMPS 251

## MATH 368

perations Research I
edit Hours:
This course provides an overview of operations research inear programming, and the transportation problem.

Prerequisite:
MATH 231

## AATH 371

Advanced Ma
Credit Hours: 3
nis course covers the following major topics: Some intial lunctions; Method of eigenfunction expansions;

Prerequisite
MATH 314

## MATH 385

## Advanced Mathematic

## Credit Hours: 3

Advance Mathematics is a course designed only for electrical engineering students. It is a 3 credit single course introduces the students to some of vector calculus concepts, some special functions, complex numbers and complex functions. It focuses mainly on line integrals, surface integrals and on some applications of these integrals, Gamma functions, Beta functions and Besse functions. The prerequisite of this course is Calculus III.

## Prerequisite

MATH 211

## MATH 391

## Life Contingencies

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 ins include insurance, annuities, benefit premiums, and ne reserves.

## Prerequisite <br> MATH 291

## MATH 392 <br> MATH 392 <br> \section*{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 391

## MATH 413

Theory of Differential Equations
his course covers the following major topics: Linea system of differential equations; Nonlinear systems of
differential equations; and Stability of linear differential

## equations.

MATH 314

## MATH 443

ntroduction to Differential Geometry Credit Hours: 3

Prerequisite:
MATH 231

## MATH 466

## Numerical Analysis

Credit Hours: 3
This course covers the following major topics: Iterative methods; Approximation theory; Eigenvalues; Numerical
 of partial differential equations

Prerequisite:
MATH 366
MATH 471
Mathematical Modelling
Credit Hours: 3
This course covers difference equations (Dynamical system 1), difference systems (Dynamical system Applications.

Prerequisite
MATH 314

## MATH 496

## Capstone Course

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
This course offers an in-depth exploration of a specia topic, issue, or current trend in the field of study.

## nternship

his internship course adds a significant real-world practical component to students' education

\section*{MATH P100

## Pre-Calculus

## 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 n 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 cholastic Aptitude Test-SAT 500 OR Elementary Algebra 082 OR MATH 003) AND ( (ENGL 020 AND ENGL Total for Integrated Core 269 AND ENGL 021) OR (Total for Integrated Core 269 AND ENGL R001) OR (Total for Integrated Core 269 AND ESL Reading Skills 063) OR ( ENGL C001 and ENGL R001) OR (ENGL C001 AND ESL Reading Skills 063) OR ENGL 002 OR ENGL 003 OR ENGL 004 OR TOEFL 500 OR TOEFL IBT 061 OR TOEFL CBT 173 OR IELTS 5.5 )

## MCOM 103

## Media and Society <br> \section*{Credit Hours: 3}

This course introduces students to the basics of communication, and provides an overview of the history and development of the various mass media. It deals with issues pertained to the role of communication media in society, and highlights issues of press freedom and socia 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
dit Hours: 3
The course provides an introduction to the primary
principals and concepts that professional communicators se to design and produce visually pleasing and effective messages in a variety of media. Includes assignments that apply concepts and introduce visual communication oftware applications. It focuses on main design principle used in planning communications materials, such as
proximity, alignment, repetition, proportion, contrast, alance, unity and rhythm
rerequisite:
MCOM 103 OR MCOM 10

## MCOM 215

Multimedia Report. \& Writing
redit Hours: 3
The course is an introduction to creating, repurposing and assembling content for distribution across integrated media ased management of photos/video, Web-related skills. provides students with a hands-on experience in writing Web content using basic HTML, creating and maintaining logs with journalistic content, creating a Web news story and creating an audio/ video news story

## rerequisite:

## MCOM 222

## ommunication Theories

Credit Hours: 3
This course deals with studying the most important communication theories and models, which emerged
since the 1928s and their relationship to the practical media practices and applications. The course pays specia attention to the powerful effects theories, the selective ffects theories, the indirect effects theories, as well as the critical approach

## Prerequisite

ICOM 103 OR MCOM 10

## COM 223

Media Writing
Credit Hours:
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 elemen hat focuses on historical evolution of news writing, presentation, including headlines, body and conclusion

Prerequisite:
MCOM 103 OR MCOM 10

## мCOM 226

pecial Topics in Mass Communication
Credit Hours: 3
communication fields. Topics may vary from semester to semester depending on the current issues in the field. Th 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

## мсом 303

## Women and Me

This course encourages a foundational understanding of women and mass media. It helps students gain an understanding of the relationship between women and the mass media from global and regional perspectives The course focuses on the mass media representatio of women and gender roles, including whether and or how women representation in the mass media omen representation, and the current state of wome epresentation

Prerequisite:
MCOM 103 OR MCOM 10

## исом 315

Kesearch Methods

## Cridit

The course is designed to train the students in conducting social science research through a hands-on approach hat introduces the basic steps and stages of scientific esearch. The course teaches quantitative and qualital esearch methods including descriptive and historis procedures, questionnaire construction and analysis of proced

Prerequisite

## 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 ournalists, freedom of the press, social responsibility, airness, accuracy, privacy, libel, contempt, obscenity and ther ethical problems. The course also evaluates Qatar Press Law within the context of international media laws and ethics.

## MCOM 318

lobal Comm
The course discusses the economic, political and cultural dimensions of global communication. It analyses the political and cultural implications of globalization including he effects of corporate multinational control of globa ommunication and American hegemony of the global systems, new communication technologies and their
pact, imbalances in media development between th
north and the south, imbalances in news and information low and, finally, the positive and negative impact of gobalization on current human communities.

Prerequisite
MCOM 222

## MCOM 341

News Reportin
ackground news writing and editing with special emphasis on how to conduct face-to-face interviews, telephone interviews, new onferences, as well as preparation and writing of feature ories based on journalistic investigations. The course media as well as the local media

## rerequisite:

MCOM 215 OR MCOM 223

## MCOM 342

## ews Reporting, Writing and Editing English

 redit Hours: 3he course is designed to give students a foundation of esearch, reporting, writing and editing skills that will help em throughout their time in the department and into the advanced journalism skills, including writing reports, olumns, editorials, opinion articles and features. The students will have the opportunity of having their reports, ews stories, and /or articles published in the local or ppartmental publications

Prerequisite
MCOM 215 OR MCOM 223

## MCOM 343

Online Journalism

The best way for students to learn the craft of journalism is by doing journalism. Students in this class are expected Most assignments will take students outside of the lassroom, off the campus and into the real world. Als students will be required to use the latest technology in the field.
Prerequisite
MCOM 342 OR MCOM 34

## MCOM 345

ewspaper D
This course focuses on enabling students to produce content-oriented design, typography and layout. Students will be trained to use the latest desktop publishing softwar as well as other digital technology. Students will be equired to use multi-media and graphic designs for lay of newspapers, magazines, newsletters and online publications.

Prerequisite:
MCOM 215 OR MCOM 223

## исом 346

## Internet-Assiste

redit Hours: 3
his course will build on traditional methods of computerassisted reporting and research methods to incorporat tory ideas, trends and sources, connect with readers and viewers in new ways, enhance the quality of their reporting and research skills. The course will strive to prepare student-journalists to adapt to whatever comes with the Internet of the future

## rerequisite

## MCOM 348

## vestigative Journalism

his course is 3 and write in depth. Students in this class are expected to start thinking of themselves as real working journalists Students will develop their tools of critical thinking in onceptualizing, developing and writing stories. They w research methods and the interpretation of trends and surveys. The course will focus on the analysis and practic of complex storytelling, including the use of narrative techniques

## MCOM 349

## Sports Journalism

Credit Hours: 3
This courses aims to help students develop practical skills in print, online, radio and TV sports reporting. Cohorts wirbe encouraged to assume the professional role of journalists working for newspapers, television, radio and the web in efficiently sourcing, gathering and producing 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:

COM 350

## COM 350

## Multimedia Rep

This is an advanced course that aims to provide students with more practical practice of Mutimedia Reporting and Writing 1. It is designed for students of online journalism work in a team of journalists to apply what they have earned about convergent journalism to several major tories from the real world.

Prerequisite
Prerequisite:
MCOM 215 OR MCOM 223

## MCOM 360

## Photojournalism

redit Hours: 3
This course introduces students to the art and science of photography as it applies to journalism. It aims to build peration, shooting for the press and digital editing pudents also learn the fundamentals of photoiournal production, the standards and ethics of photography and he 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 eam and will lay out photo stories for newspaper. magazine and online news platforms.

Prerequisite:

## MCOM 361

Broadcast News Reporting and Writing
redit 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, broadcast news writing for diversity in a globalized world: a practical guide to producing broadcast news; critical journalism and independence.

## Prerequisite

## MCOM 363

## Announcing

This course will introduce the basics of announcing skills. Students will be trained on pronunciation, rate, pacing and articulation. They will also be required to use vocal variety and vocal variety. By the end of the course students should be able to present different genres and they will be ble to recognize the difference between good and bad announcing.

MCOM 215 OR MCOM 223

## MCOM 364

## Broadcast Production

Credit Hours: 3
This course introduces students to the basic concepts of audio and video production. The students are trained on the operation of digital video cameras, TV studio cameras
digital audio recorders, the different types of microphones, lights and lighting styles. The students are trained in basi reatment, synopsis and script writing for a variety of radio and TV programs. The students produce Public Service Announcements (PSAs), documentaries, and Radio and TV program in which the PSAs and the documentaries ar inserted.

Prerequisite
MCOM 215 OR MCOM 223

## COM 365

Script Writing
Credit Hours: 3
Credit Hours: 3
This course helps students in developing skills of preparing and writing scripted dramatic material. script writing and introduced to $h e$ differences betwee elements, such as theme, story dialogue, which shap process of developing and writing a script.

Prerequisite:
MCOM 215 OR MCOM 223

## MCOM 366

roadcast Directing
his course focuses on the principles of radio and elevision directing, such as the techniques of mixing ound with music, and using sound effects according to he type of program. The skills of broadcast directing, uch as switching between the shots, the basics of ood television composition, and the technical problems involved.

Prerequisite

## MCOM 367

## roadcast News Reporting and Writing

Credit Hours: 3
This hands-on course explores more advanced aspects of writing and reporting in the area of broadcast. It specifically elineates the differences between writing for audio
different techniques and approaches to writing for different genres, namely hard news, soft news, features, opinions and profiles.

Prerequisite:
MCOM 361

## MCOM 381

## ies Public Relation

Credit Hours: 3
course highlights the principles and the essential foundations of public relations, and it explains the most
mportant concepts and terminology in the field. The
ourse also discusses the professional and ethical
guidelines in designing, applying and evaluating PR
ctivities, and it explains the stages of successful planning public relations.
rerequisite:
MCOM 222 OR MCOM 101 OR MCOM 103

## MCOM 382

## rganizational Communication

redit Hours: 3
The course introduces the concept of organizationa cmmunication and its various principles, and puts special emphasis on learning and practicing the skills of management through case-study model. The course adopts a methodology that tries to bridge the gap between heory and practice by putting students in real case-studie organizational communication to handle

Prerequisite
MCOM 103 OR MCOM 10

## MCOM 383

## Principles of

his 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 Students will be expected to criticize 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 $2 \geqslant 2$ OR MCOM 212

## MCOM 384

## Advertising Copy Writing and Desig

Credit Hours: 3
this course the students are introduced to the basics fapplying 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 for the work they do during the course.

Prerequisite
MCOM 383

## MCOM 386

## Public Relations and New Medi

 Credit Hours:his course focuses on the assessment of the tactical and strategic implications of digital technology for profit 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. 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 which are used for the production of publications and for presentations. Students prepare samples of such publications and presentations for evaluation.

## Prerequisite: <br> MCOM 381

## MCOM 447

Journalism in
This course provides students with an opportunity for actual training, and on-site professional experience in loca 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 in two reports.

Prerequisite:
MCOM 341 OR MCOM 344 AND MCOM 342

## MCOM 450

Multimedia Journalism - Capstone

## Credit Hours: 4

Credit Hours: 4
This is a capstone course which is designed to stimulate students to conduct group projects or to deve stimulate 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 <br> 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 developing portfolios It will emphasize the difference between writing news and feature stories.

## Prerequisite:

MCOM 341

## COM 465

Web-Content for Radio
Credit Hours: 3
This course is designed to give the student an understanding of radio delivered via the Internet and the opportunity to produce and deliver digital audio content. Students are introduced to the radio industry and radio production standards for the Internet. Using professional recording and mixing equipment the students learn the basics of telling a good story. Each student goes through procive use of tound and high poductiong

Prerequisite
МСОМ 215 OR MCOM 223

## MCOM 467

## Broadcast Internsh

Credit Hours: 3
his course provides an opportunity to the student to acquire practical skills in an area of mass communication Journalism). Each student is required to spend 10 hours weekly for 8 weeks in his or her designated institution under the direct supervision of a training field mentor from the institution and an academic supervisor from the university
Prerequisite:
MCOM 364 OR MCOM 362 AND MCOM 36

## MCOM 469

## V 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
list, and storyboards. The student is also taken through the fundamental elements of production and post-production of a major project.

## Prerequisite <br> MCOM 361

## COM 470

## Broadcast Capston

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 and go sontign 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

## nternship

his course provides an opportunity to the student to acquire practical skills in an area of mass communication (Public Relations, Broadcast Production, Print / Online Journalism). Each student is required to spend 10 hours weekly for 8 weeks in his or her designated institution under the direct supervision of a training field mentor from the institution and an academic supervisor from the university.

Prerequisite
MCOM 388 AND MCOM 384

## MCOM 490

## Strategic Communication "Capstone

redit Hours: 4
This course allows the students to practically apply all PR and advertising theories and concepts through the design 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

## 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 help organizations in reaching target audiences within the time and budget limits.

Prerequisite:
MCOM 381

## MCOM 492

Social Marketing
redit Hours: 3
Social marketing is one of the fields that addresses socia issues that threaten the quality of life with the objective in regards to these issues. The course provides the student with a different perspective in marketing which is social marketing. A lot of companies in their efforts to practice corporate social responsibility are turning to socia marketing as a means of responding and helping in the needs of society or a community

## Prerequisite:

## MCOM 381

## MCOM 493

## ublic Opin

Credit Hours: 3
his course aims to provide students with knowledge about public opinion history, theories, concepts and esearch methods. Through this course students will learn how public opinion affects social, political, cultural, and tudents will apply the research methods learned in analysing public opinion in a variety of contexts.

Prerequisite:
MCOM 381

## MECH 210

## tatics \& Dynamics

Credit Hours: 3
Principles of mechanics. Concepts of free-body diagram, principles of equilibrium of particles and rigid bodies. Fundamental concepts of kinematics and kinetics. Plane motion of rigid bodies. Rectilinear and curvilinear motion of particles. Newton's 2nd law. Dynamics of system of particles. Energy and momentum methods

Prerequisite:
MATH 101 AND PHYS 191 Concur

## MECH 213

Engineering Measurements
introduction to techniques of engineering measurements. Data acquisition and processing systems. Calibration f instruments, response time, and error analysis Measurements of basic physical quantities (for example force, stress, strain, temperature, viscosity, pressu
velocity, flow rate, heat flux, surface irregularities, frequency). Carry out and design laboratory experiments. Prerequisite: GENG 200 AND PHYS 193

## MECH 221

## ingineering Mechanics I-Static

## Credit Hours: 3

Fundamental concepts and principles of mechanics, vectors, and force systems. Centroids and centers of gavity, Moments of inertia. Concepts of free-bodylagram, principles of equilibrium of particles and rigid bodies in two and three dimensions

## Prerequisite

MATH 101

## MECH 222

## Engineering Mechanics II-Dynamics <br> \section*{Credit Hours: 3}

Fundamental concepts of kinematics and kinetics with application of particles and plane motion of rigid bodies. Rectilinear and curvilinear motion of particles. Newton's second law, impulse and momentum methods, idid. Dies. Plane motion of rigid bodies: Forces and rigid bodies. Plane motion of rigid bodies: Forces and accelerations

Prerequisite
MECH 221 AND PHYS 191 AND PHYS 191
MECH 223
olid Mechanics
redit Hours: 3
xial stress and strain, statically indeterminate members, hafts, flexture of beams, transverse Toadion of circular stresses. Carrying out laboratory experiments.

Prerequisite
MECH 221 OR MECH 210

## MECH 230

## anufacturing Processes

ngineering materials, introduction to entrepreneurship, manufacturing processes: casting, welding, forming, sheet larworking and joining processes. Hand work and hand milling, and grinding Metrologicelses, turning, drilling ang, and grinding. Metrologi

Prerequisite:
GENG 231
MECH 241
Thermofluids
Credit Hours:

Fundamental knowledge of basic concepts and definition used in thermal science. Basic hydrostatics and atmospheric science. Properties of pure substances, ide and its application to systems and control volumes The second law of thermodynamics and the concep of efficiency. The entropy and irreversibility. Basic evaluation techniques of heat transfer modes involving conduction, convection and radiation. Carry out laboratory experiments

## Prerequisite

MATH 101

## ECH 321

Credit Hours: 3
Basic concepts. Kinematics fundamentals. Graphical inkage synthesis. Analysis of displacement, velocity, and cceleration of linkages. Gears and gear trains. Cams and cam design. Force analysis. Balancing of Machines.

## Prerequisite

MECH 222

## MECH 322

## Mechanical Vibrat

Credit Hours:
ntroduction: elements of vibrating systems, examples vibratory motions, simple harmonic motion, vector of freedom: linear and torsional vibrations, damped and undamped free vibrations, forced vibrations, vibration isolation. Vibration absorbers. Vibration measurement instruments. Properties of vibrating systems: Eigenvalues and Eigenvectors, modal matrix and normal mode summation. Field and computer based applications. carrying out laboratory experiments.

Prerequisite:
MECH 222 AND MATH 217

## MECH 323

## Mechanical Design

Credit Hours: 3
Design philosophy and methodology: phases of desig process, design consideration, standards and codes. ngineering materials: classification, specification manufacturing and assembly processes, safety, aesthetic and economy. Three-dimensional stresses, stress concentration and failure theories. Design for static and fatigue loading. Applications on designing various machin
ements such as beams, shafts, springs, fasteners and . Term projects.

Prerequisite
MECH 223 AND GENG 111 AND MECH 230

## MECH 33

Machining \& Forming Process
Credit Hours: 3
Theory and applications of metal cutting; basic principles significant features of current research. Chip formation metal removal, and precision engineering. Metal forming processing, include, casting, forging, sheet metal, rolling, extrusion, and welding. Carrying out laboratory experiments.

Prerequisite
MECH 230 AND MECH 223

## MECH 342

## Thermodynamics

Steam and gas power cycles. Ideal and Actual cycles. Refrigeration cycles: ideal and actual vapor compression cycle, gas refrigeration cycles, absorption systems. Thermodynamic relations. Gas mixtures: Dalton and Amagats principles. Gas-vapor mixtures: dew point, adiabatic saturation process, Psychrometric chart, ir conditioning processes. Chemical reactions w it formation, A/F ratio, enthalpy of reaction, Adiabatic flame emperature. Carrying out laboratory experiments.

## Prerequisite <br> MECH 241

## MECH 343

## Fluid Mechanics

undamental concepts. Properties of fluids. Fluid Statics. Momentum and energy equations, applications. Bernoulli equation, applications. Dimensional analysis and similitude. Introduction to viscous flows and boundary ayers. Internal flows, laminar and turbulent flows. Head ss and friction factor. Flow over immersed bodies experiments.

## Prerequisite

MECH 222
IECH 34

## Heat Transfer

## Credit Hours:

on marks. Conduction: one dimensiona nduction in various geometries, conduction with volumetric energy sources, conduction through composite
medium, extended surfaces (fins). Transient conduction. Forced convection: boundary layers, internal and externa lows (laminar and turbulent). Natural convection: externa fow and flow in enclosures. Basic introduction of heat exchangers. Radiation: properties, shape factor, analysis radiation in a non-participating media. Carrying out laboratory experiments.

## Prerequisite

MATH 217 AND MECH 241 AND MECH 343

## MECH 361

## Control Systems

Credit Hours: 3
Introduction to control systems. Mathematical models for mechanical, pneumatic, electrical, and hydraulic feedback System time and frequency responses. Basic control action and industrial automatic controls. Performance specifications of feedback control systems. Analysis and design of systems by means of root-locus and frequency esponse methods. Compensation techniques. Computer aided control system design of single input single output

## Prerequisite <br> MECH 322

## MECH 399

## Practical Trainin

Students spend a period equivalent to eight weeks of ractical training in an engineering organization. This practical skills by participating in engineering activities and performing assignments through training programs. The program is jointly specified by the department and industrial organizations.

## rerequisite

ENG 107 AND MECH 44

## MECH 421

## Mechanical Design II

## Credit Hours: 3

Design based on rigidity and deflection limits. Load determination and motor selection. Elements of power ransmission equipment: shafts and bearings, housings and frames. Friction transmission equipment: belts, brake
and clutches. Positive transmission equipment: couplings, keys, chains and gears. Applications on designing some design proces. Tom proists. Boll

Prerequisite:
MECH 321 AND MECH 323 AND GENG 360

## MECH 425

## inite Element M

Credit Hours: 3
undamental concepts of the finite element method for near stress and deformation analysis of mechanical tress, and plane strain elements. Practical modeling techniques and use of general purpose codes for solving practical stress analysis problems.

## rerequisite

MECH233

## MECH 426

## omputer Aided Design

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 o interactive 3-D computer graphics programs. Numeri

Prerequisite
MECH 323

## MECH 427

Mechanics of Composite Materials
Credit Hours: 3
Analysis, design and applications of laminated and hopped fiber reinforced composites. Micro- and macroenvironmental degradation. Design project.

Prerequisite
MECH 223 AND GENG 23
MECH 431
Failure Analysis
Credit Hours: 3
redit Hours:
unction of failure analysis. Techniques of failure analysis (nvestigation procedure). Testing used in failure analysis Designing against failure. Failure due to excessive elastic deformation. Failure due to distortion. Brittle fracture (Fast fracture). Fatigue failure. Failure due to creep. Wear

Corrosion and oxidation. Practical: Case study from ndustry. Laboratory experiments.

Prerequisite:
GENG 231 AND MECH 223

## MECH 432

## Welding \& Casting Technologies

 Credit Hours: 3Importance of welding and casting in industry, Welding processes, Weldability of metals, Welding defects,
Designing of welded joints, Welding positions. OxyDesigning of welded joints, Welding positions. OxyWelding electrodes in SMAW, GTAW and GMAW,
Submerged and Plasma arc weldings, Resistance welding, Castibality of metals, Solidification of metals, Casting processes, Design of casings. Experiments in Welding processes, Welding Metallurgy, NDT, and Casting metallurgy and casting Techniques. Laboratory experiments

## Prerequisite

MECH 230

## MECH 433

## Modern Machining Techniques

Credit Hours: 3
Current trends in manufacturing techniques. Advanced machining. Thermal machining, Chemical and Abrasive machining. Hybrid machining and Rapid prototyping. Computer numerical controlled machining Approach to flexible manufacturing systems and computer integrated manufacturing systems. Laboratory experiments

Prerequisite
MECH 230

## MECH 435

Corrosion Engineering
Cost of corrosion, Electrochemical principles of corrosion, How to predict the corrosion in industry, Mechanical and metallurgical factors affecting corrosion, Corrosion rate measurements, Polarization, Passivity, Uniform corrosion Bi-metallic corrosion, Crevice and Pitting corrosion, Intergranular corrosion, De- Hydry, Esion-cososion, St atigue. Modern electrochemical principles of corrosion Cathodic protection, Coating, Designing against corrosion

Prerequisite
GENG 231

## MECH 44

## nergy Systems Lab

Application of basic measurement techniques and heoretical background gained in energy-related courses in conducting and designing laboratory experiments complete thermofluid systems. Emphasis is given to parametric effects on the performance of internal
combustion engines, compressors, turbines, centrifuga pumps, heat exchangers, air conditioning /refrigeration and pumps, heat exc
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
Air and steam jet cooling. Thermoelectric refrigeration and flash cooling. Cooling load estimation. Refrigeration equipment component selection. Liquefaction. Air conditioning: human comfort, psychrometry, heating, ooling, humidification, dehumidification and mixing. Summer and winter A/C processes. Recirculating air sensible heat factor. A/C thermal load estimation Component selection and duct design.

## Prerequisite

## MECH 443

Heat Transfer Systems
Credit Hours: 3
Advanced conduction: Basic equation and boundary onditions, analytical and numerical solutions of steady f convection, analytical solutions of some simple flows forced and natural convection). Design and rating of eat exchangers. Heat transfer in condensing and boiling processes. Energy exchange by radiation. Radiative heat ansfer in furnaces. Solar collectors and concentrators aboratory experiments

Prerequisite:
MECH 344

## MECH 445

Credit Hours:
undamental concepts, isentropic
compressible flow with area change, normal shock waves, performance of nozzles, frictional flow in constant-area ducts (Fanno flow), flow in constant-area ducts with heat elocity potential and solution of simple flows. Viscous flow: differential formulations, solution of simple flows. Analysis flow in pipeline networks. Use of commercial software.
Prerequisite
MECH 343

## MECH 446

## urbo Machines

Classification of turbomachines, dimensional analysis, specific speed, prototype and model testing, basic laws. ncompressible flow turbomachines: centrifugal and axial flow pumps, Eulers theory, characteristics and laboratory lesting, cavitation in pumps, hydraulic turbines, and
centrifugal compressors and fans, impeller and diffuse
design, optimum design of compressor inlet, choking in a compressor stage, axial flow compressors and turbines, reaction ratio, stage loading, stage efficiency, radial flow turbines, Laboratory experiments.
Prerequisite:
MECH 343 AND MECH 241

## MECH 447

## Heat Engines

hternal versus external combustion engines. Automotive engines: Air standard cycles, fuels and combustion, combustion in spark ignition and compression ignition engines, actual gas cycles, supercharging, knocking, uel rating. Gas turbine engines: actual cycles, optimum operation, application to turbo-fan, turbo-prop, and Carrying out

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 engineering standards, realistic constraints that may include economic, environmental, ethical, social, political,
health and safety considerations. Term project
Prerequisite
Prerequisite:
MECH 323 AND MECH 441 AND GENG 360

## MECH 463

## Mechatronics Sys Des

Credit Hours: 3
Introduction and definition of Mechatronics. Analog and digital circuit fundamentals. Microprocessor architecture and applications, Data Acquisition systems. Actuation systems: Mechanical, Hydraulic and pneumatic syste Programmable Logic Controllers (PLC) Application intelligent systems. Carry out laboratory experiments.

Prerequisite:
MECH 213 AND MECH 36

## MECH 464

## troductions

Credit Hours: 3
Overview of robotics. Robot coordinate systems. Direct and inverse kinematics. Introduction to manipulator dynamics. Robot sensors and actuators. Control trategies. robot specification and selection, economic justification. Safety and implementation.

## Prerequisite

MECH 321 AND MECH 361

## MECH 47

Selected Topics
Credit Hours: 3
Selected topics that meet student interests and reflects recent trends in one of the fields of mechanical engineering.

## MECH 472

MECH 472
redit Hours: 3
Selected topics that meet student interests and reflects recent trends in one of the fields of mechanical engineering.

## MECH 480

Senior Project
ours:
Carry out analysis and design of a system in one of the areas of mechanical engineering. Students follow systematic design approach, apply project planning and scheduling techniques, devise analytical, computational and/or experimental solutions, and design and build their
own test-rig. Students attend technical seminars and learn
to interact with speakers and at the end of the semester; hey are required to present a seminar on the project status, progress and future work.

## Prerequisite

## MECH 483

## perations M <br> redit Hours: 3 agement

Presents a broad conceptual framework for the operation management and management of science. Topics include: Decision Making, role of quantitative models, materials management and inventory theory, Total Quality Management.

Prerequisite:
GENG 200

## MECH 485

## Engineering Man

Engineers as managers. Engineering management unctions. Total quality management: principles and approaches, techniques and applications. Personnel management, team working and creativity. Communicatio in the organization. Management of engineering projects. Engineers and the law. Liability. Project planning and control using activity network analysis.

## MECH 486

## Quality Analysis and Contro

Quality Analysis
Analysis \& design of quality control systems, Statistical Process Control (SPC) design and implementation. Contro charts for attributes and variables. Process capability
analysis, techniques. Quality management and recent developments.

Prerequisite
MECH 490
Senior Project II
Credit Hours: 3
Participating students continue the work on the topic selected in MECH480. Students are required to presen seminar as well as a written formal report.

## Prerequisite

MECH 480

## MECH 499

## Independent Study

Credit Hours: 3
ndependent research of a topic not previously studied the supervision of a faculty member. A formal report is required.

## MEDI 101

Human Structure and Function
Credit Hours: 4
Human Structure and Function-I is the first of a two-course sequence examining the terminology, structure, function, course includes a study of the cells, chemistry, tissues, general embryology, and integumentary, musculoskeletal respiratory, digestive and urogenital systems. In
conjunction with classroom instruction, the anatomy and physiology online lab component for this course requires udents to apply knowledge from the classroom to online xperiments and critical thinking application exercises.

## MEDI 102

## Medical Educatio

redit Hours: 3 and attitude needed in order to be a self-directed, lifeng learner. Study skills which encourage deep learnin hould be inculcated and developed at an early stage of ducation. Students will explore through active learning heir future job responsibilities; and competencies they hould acquire in order to respond to societal needs and xpectations. 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 Stru

## edit Hours: 4

Human Structure and Function II is the second of two-course sequence examining the terminology, fructure, function, and interdependence of the human body systems. This course includes a study of the , chemistry, tissues, general embryology, and integumentary, musculo-skeletal, respiratory, digestive and urogenital systems. In conjunction with classroo struction, the anatomy and physiology online lab knowledge from the classroom to online experiments and critical thinking application exercises.

## Prerequisite:

MEDI 101 Concur.

## MEDI 20

## ntroduction

## redit Hours: 0

This course builds on MED102. Students are introduced to he different learning sites in the college and community. The different student centered learning strategies: PBL,

## Prerequisite

MEDI 102, MEDI 103, CHEM 101, PUBH 151 (all prerequisites with concurrency)

## MEDI 202

## Genes to community

This course is structured around six problems representing from conception, embryogenic, newborn, child, adult and elderly. Population-health related concepts, demography morbidity and mortality rate and the concept of family Clinical skills are introduced. Students are introduced to eneral 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.

## Prereausite

CD 102 MED 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, th internal milieu and homeostasis. It integrates basic concepts from Biochemistry, Genetics, Physiology, 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 20

Cardiovascular Syste
Credit Hours: 5 CH

This unit is structured around five common cardiovascular problems. Students learn basic medical sciences underpinning patient presenting symptoms, clinical 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 cardiovascula 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 Epidood cell malignancies and coagulation disorders. are exemplified concepts related to diagnostic tests skills related to through the four problems. Clinical 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 history taking and analysis of common symptoms and signs in patients with respiratory problems. Students continue to develop competence in EBM practice, clinical epidemiology and biostatistics. Through the community-based program, students recognize the importance of primary healthcare, preventive medicine and importance of primary heathcare, preventive
socioeconomic concept of health and illness.
202. MEDI 203 (all pre-requisites with concurrency)

## MEDI 207

## Medicine and the Arts

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 variou art forms, the course has a practical component. By engaging students in creative work on medical themes, 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 search techniques, self earning 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. dochemical 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 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 : 5 CH

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 transplanato,
will be introduced. will be introduced.
linical Skills will focus on examination of the renal system practice in relation to the renal system.

Prerequisite

MEDI 204, MEDI 205, MEDI 206 (all pre-requisites with concurrency)

## \section*{MEDI 303} <br> Endocrine system Credit Hours : 5 C

The course introduces to principles of the endocrine system. Clinical skills will focus on examination of patients with diabetes and thyroid diseases. Students learn to identify anatomical features of the hypothalamus, pituitary, thyroid gland and adrenal glands and to understand the unctions of each gland, its hormonal regulation and 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

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 he reproductive system, 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

 Credit Hours : 9 CHThe course emphasizes 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 physical examination of the musculoskeletal system and peripheral nerves constitutes the main bulk of clinical skill training in this unit.
Prerequisite:

MEDI 301, MEDI 302, MEDI 303 (all pre-requisites with concurrency)

## MEDI 401 <br> Neuroscience II \& Mental Health I <br> Credit Hours : 10 CH

The unit builds on Neuroscience I. It introduces central nerves 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 witu de 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:
FDI 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 his phase of the curriculum win be able to demonsta examination of all body systems.
The problems in this unit cover important concepts of pathology, 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
ntroduction 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 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 F022 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))

## Prerequisit

## MIST 301

## introduction to

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 data modeling, normalization, and implementation in th relational model using SQL, to develop an understanding of database administration, and to explore other database models including the object-orientated model.

## Prerequisite <br> MIST 201

## IIST 303

ystems Anal
This course provides students with the foundation in systems analysis and design concepts, methodologies, lechniques, and tools. Students will analyze system equirements, design software solutions, and adopt ppropriate development approaches such as the object RAD) and joint application development (JAD)

## rerequisite

MIST 201

## MIST 304

## Data Communication \& Networkin

Credit Hours: 3
This course introduces students to all aspects of current computer networks. Topics include cabling, signaling, nd network local area networks, network protocols including serial, Integrated Services Digital Network (ISDN), LAN servers, clients, analyzers and bridges/ routers

## MIST 310

Systems Anal
his course will introduce various methods to analyse system requirements and design software solutions. It will focus on object-oriented methodologies and provid students with hands-on experience in developing flow diagrams, use cases, class diagrams, and test plans.
(MATH 119 OR MATH 101) AND MIST 20

## MIST 320

## Data \& Information Management

 Credit Hours: 3his course covers concepts and methods in design, mplementation, and maintenance of the data and an understanding of database development, database administration, and knowledge management.

Prerequisite
Prerequisite:
MATH 119 OR MATH 101) AND MIST 201

## MIST 330

## Infrastructure and Enterprise Architecture

 Credit Hours: 3his course provides an understanding of the nature and role of the various components of organizational 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 different methods and strategies to manage security risks. Prerequisite
MIST 201

## MIST 33

## Enterprise System

redit Hours. 3
This course discusses how modern managemen managed and the issues in integrating them to support effective business operations and decision making. Students will learn about the integrated nature of busines processes, critical success factors in enterprise system implementation, and gain hands-on experience with a
major enterprise system
Prerequisite
MIST 201

## MIST 360

trategy, Management, and Acquisition
Credit Hours: 3
This course is focuses on developing the ability to critically assess existing IS infrastructures and emerging echnologies as well as how these enabling technologies and 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

## IIST 390

pecial Topics in Information System
Credit Hours: 3
his course offers an in-depth exploration of a special opic, issue, or current trend in the information systems fild. This course will include special topics or issues tha will be subject to the department approval.

## Prerequisite

MIST 201

## MIST 420

Business Intelligence
Credit Hours: 3
The course provides students with an understanding of he principles of decision making in organizations, an ppreciation of the concepts of business intelligence acquisition of basic skills in the use and construction of BI systems. Students will gain hands-on experience with major Bl applications.

Prerequisite
IST 320 OR MIST 302

## MIST 440

## Applications Developmen

his 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 gical and physical structures for both programs and - 1 le

## Prerequisite

MIST 310 OR MIST 302 ) AND (MIST 320 OR MIST 303

## MIST 44

## Iternet Applications Developmen

his 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 simulated business on the Internet. Students will use tool 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 informatio nd systems security, defines the key processes and 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 Prerequisite:
MIST 330 OR MIST 304

## MIST 46

Information Systems Project Management Credit Hours: 3
This course introduces generic project management methods and techniques (e.g. PMI) as well as techniques specific to software projects (e.g., Agile Methods and projects are different from other types of projects. The course will cover best practices and software project management standards such as Capability Maturity Mode ntegration (CMMI) as well as the ISO/IEC and IEEE/EIA 058 and 12207 standards.
yield tests, recipe conversion and costing; principles of
sanitation in quantity food production; principles underly sanitation in quantity food production; principles underlying

## rerequisite NUTR 321

## NUTR 320

Introduction to Dietetic and Nutrition Practice Credit Hours: 1
This course introduces students to the profession of dietetics and provide overview of the many career linically and in the community

Prerequisite
NUTR 221
NUTR 321
Food Chemistry
This course is designed to enable the students achieving good knowledge about the biodiversity and principles of classification of living organisms which started from the most microscopic (micro- ) organisms like Bacteria and Protozoa passing through Algae and Fungi up to Plants and Animals. The course covers the biological interactions between living organisms including the beneficial relation ike 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 heories applied to individual and group patient education will be addressed. This course aimed at improving tudents' 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
Digestion and absorption of macronutrients. Body fluid and electrolytes balance. Concepts of balance, flux,
turnover and metabolic pools. Energy metabolism at the cellular level. Metabolic pathways of synthesis and acids. Macronutrients' metabolism in major organs and ssues. Substrate flux in long term and short term fasting Apoptosis, nutritional genomics.

Prerequisite:
CHEM 351 AND CHEM 352

## NUTR 336

## Nutritional M

Credit Hours:
Mechanism of action, metabolism and interaction with ther nutrients of water and lipid soluble vitamins, macrominerals, trace elements and ultra-trace elements.

Prerequisite:
NUTR 231 OR NUTR 331

## NUTR 338

Nutrition through the Lifespan
Credit Hours: 3
his 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 f both physical and psychosocial. development.

## Prerequisite

NUTR 231

## NUTR 340

Assess of Nutritional Status
Credit Hours: 3
Practical techniques in evaluation of nutritional status fo individuals and groups. Anthropometrics measurements and their reference values. Biochemical indicators o human body and their reference values. Evaluation methods of dietary intakes and consumption. Moder techniques for body composition measurements (BIA, DXA, CT, MRI, NAA) will be covered.

## Prerequisite

## NUTR 352 <br> NUTR 352 <br> Nutritional Metab Credit Hours: 3

This course covers metabolic pathways and physiologic 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 heories applied to individual and group patient education witr be addressed. This course aimed at improving
students' interviewing skills and counseling technique 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 Plannin
This course aims to introduce the nutritional value and the characteristics of food groups, principles and guidelines or diet-planning, diet-planning guides with emphasis o ood group plans and exchange lists, and approaches applying diet-pla gur

Prerequisite:
NUTR 231
NUTR 441

## ood Safety and Quality Contro

 redit Hours: 3his course will provide comprehensive information on ood safety; food contamination i.e. microbial, chemical plant and animal adulterants and radioactive materials,
Routes of contamination of major food groups, analysi and control. Fields and concepts of the quality systems o 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

Management of Food Services Operations Credit Hours: 2

The course purpose is to introduce management theories and principles, and the effective use of resources in Design of floor plans and equipment selection for various institutional food service operations are inc 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 <br> NUTR 4

Credit Hours: 2
he application of principles of management as they relate to the administration of human, physical and financia esources of food and nutrition services. In addition, emphasis is placed on food costing, labor issues, diversity, service.

NUTR 442 OR NUTR 325

## NUTR 450

## Medical Nutrition Therapy

Credit Hours:
e course provides detailed information on the role of nutrition in prevention and treatment of disease. This obesity, diabetes, dyslipidemia, iron deficiency anemia, steoporosis 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 45

Medical Nutrition Therapy II
Credit Hours: 3
This is the second course in medical nutrition therapy ollowing Medical Nutrition Therapy I. The course diseases of the digestive system Liver and pancreas nal system, oncology and metabolic stress and oating disorders. The disease process, related biochemical issues, nutritional assessment, medical nutrition therapy and food and fluid issues are discussed in details for each disease. Enteral and parenteral nutrition support are also

## overed in this course..

## Prerequisite:

NUTR 450 OR NUTR 351

## UTR 453

## Medical Nutrition Lab

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 module

## rerequisite

## 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 aken concurrently. Sessions include self-study modules,

Prerequisite
NUTR 340 OR NUTR 433) AND NUTR 439

## NUTR 456

Professional Issues in Dietetics and Nutrition Credit Hours: 1
his course covers professional issues and trends professional advancement and conduct "Code of Ethics for Dietetic Practice".

Prerequisite
IUTR 433 OR NUTR 340

## NUTR 457

## Public Health Nutrition

## Credit Hours: 3

The study of social, economical and environmental impac on the nutritional status off the community. Nutrition epidemiology. Methods of nutritional surveys. Nutrition surveillance systems. Preventive and control measures for community nutritional problems. Combating chronic problems related to diet. Nutritional and chronic disease of science-based and food-based dietary guidance. Th role of the food industry in community nutrition. Food distribution systems.

Prerequisite
UUTR 433 OR NUTR 340

## UTR 46

## Operation

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 esponsibilities related to the management of these systems, including planning, site design, marketing, huma esource management and cost accounting as it relates to quipment, food and labor are also discussed

Prerequisite:
NUTR 319

## NUTR 470

## Clinical Pediatric Nutrition

redit Hours: 3
Jutrition assessment, diagnosis, intervention, and monitoring/evaluation of growth and development of ospitalized pediatric patients and those with specia developmental disorders, failure to thrive inherited metabolic diseases, low birth weight, and chronic diseases.

Prerequisite
NUTR 450

## NUTR 490

## apstone Course

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 49

## NUTR 491

Nutrition Semina
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.

Prerequisite:
( NUTR 450 OR NUTR 351) AND NUTR 492
NUTR 492
Res Meth in Nutrition

## Credit Hours:

Students learn research methods used in nutrition and dietetics research. The course cover study designs e.g. rials. The course builds upon students' basic knowledge of statistics to introduce them to the statistical methods used in these studies.

\section*{Prerequisite:

## rerequiste.

## rerequiste.

UUTR 494

## Supervised Dietetic Practice

30-weeks in a 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 and foodservice departments. Interns will be required to demonstrate proficiency in a defined set of competencies.

## Prerequisite NUTR 490

## NUTR 495

Supervised Dietetic Practicell
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 e required to de Prerequisite:
NUTR 494

## PHAR 200

## Medicinal Chemistry I

redit 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 whose biological activities are derived from their chemica structures and physico-chemical properties. This will be achieved by first reviewing fundamental principles in
organic chemistry, which will subsequently allow students make clear connections between physical organic and 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

## edicinal Chemistry

## 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 the understanding of concepts such as drug receptor interactions, physicochemical properties, ADME, drug metabolism, and structure activity relationship on different classes of drugs. The course will cover in details drug groups that are used to treat different diseases, 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 raw) as a learning tools to facilitate memorization of chemical structures.

Prerequisite:
PHAR 200
PHAR 210

| Pharmaceutics I |
| :--- |
| Credit Hours: |

Credit Hours: 3
Pharmaceutics I (PHAR210) is the first of a series of four (PHAR210, PHAR310, PHAR311, PHAR410) pharmaceutics courses. This course focuses on physical harmacy, 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 Pharmaceutics I is to provide an insight into a number of physicochemical basics and to explain these within a pharmaceutical context. The course broadens physics courses and provides the required knowledge and foundation necessary for future courses that focus on pharmaceutical dosage forms, pharmacokinetics and bio-pharmaceutics which build upon and critically rely on Pharmaceutics I.

## oundations 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 coute series of integrated Pharmacology (PHAR320 PHAR321, PHAR420, PHAR421) and Therapeutics (PHAR380, PHAR381, PHAR480, PHAR481) courses tha will be delivered during the second and third years of the program.

## PHAR 221

Foundations of Pharmacology \&

## Foundations of Pharmac

Credit Hours: 1
Foundations of Pharmacology and Therapeutics 1 (PHAR221) is a continuation of Foundations of Pharmacology and Therapeutics I (PHAR220). It is designed to provide first year students with an introduction o general pharmacologic and therapeutic principles and concepts, and provide a broad overview of the pharmacological and therapeutic properties of selec fundamental vocabulary and background for future courses in the program. This course is intended to prepare students for the series of integrated Pharmacology (PHAR320, PHAR321, PHAR420, PHAR421) and Therapeutics (PHAR380, PHAR381, PHAR480, PHAR481) courses tha will be delivered during the second and third years of the program

## PHAR 230

## harmacy \& Health Care Credit Hours: 2

Pharmacy and Health Care I (PHAR230) is the first of 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 topics designed to inform students of current trends and challenges in pharmacy practice and health care. and challenges in pharmacy practice and health care. point for specialized education and is designed to begi developing competence in the practice of pharmacy.

## PHAR 231

## harmacy \& Health Care II

Credit Hours: 2
harmacy and Health Care II (PHAR 231) is the second in a series of two pharmacy and health care courses. The course fotiows PHAR230 is designed to continue with then
introduction of the first year students to the role of the pharmacist within the health care system. PHAR231 is also a survey course in that it continues to sample from a broad range of related topics designed to inform students of current trends and challenges in pharmacy practice and health care.

Prerequisite

## PHAR 240

Professional Skills
Credit Hours: 2
Professional Skills I (PHAR240) is the first of a series of six (PHAR240, PHAR241, PHAR340, PHAR341,
PHAR440, PHAR441) pharmacy professional skills PHAR440, PHAR441) pharmacy professional skills
courses. PHAR240 is an introduction to the prescribing process, medication dispensing practice, drug information patient care process used in pharmacy practice, and the language and terminology of medicine. This course is also an introduction to interpersonal communication theory and provides a foundation for development of the skills needed to interact with patients, customers and other health care professionals.

## PHAR 241

## Professional Skills I

Credit Hours: 2
Professional Skills II (PHAR241) continues and expands on the themes and subjects covered in Pharmacy Professional Skills I (PHAR240). PHAR241 covers drug information accessing, evaluating, and provision dispensing specific drug formulations, pharmaceutical colculations, health promotion, and health outcomes. This communication theory and provides a foundation for the development of the skills needed to interact with
patients, families, and other health care professionals. All workshops conducted in an environment that encourages the utilization of adequate communication skills and the language and terminology of medicine.

Prerequisite:
PHAR 250
Microbiology for Pharmac
Credit Hours: 3

Microbiology for Pharmacy (PHAR250) is designed to be a general microbiology course which includes the discussio of: bacterial structures and physiology; bacterial, funga
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 305

Pharmacy Research, Evaluation and Presentation Kills I (PREP skills I)

## redit Hours:

harmacy Research, Evaluation and Presentation Skills (PHAR305) is the first of six (PHAR305, PHAR 306, designed to introduce the students to the detailed aspects of optimizing research design for clinical and basic esearch. The material presented builds on the content covered in previous non-pharmacy statistics and research design courses. Design strategies for varying types of evaluation of research studies and literature will be a primary focus. In addition, oral presentation and debating skills will be developed.

## PHAR 306

Pharmacy Research, Evaluation and Presentation Skills II (PREP skills II)Credit Hours: 1
Pharmacy Research, Evaluation and Presentation Skills 11 (PHAR306) is the second of six (PHAR305, PHAR306, PHAR405, PHAR406, PHAR505, PHAR506) courses 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 through oral presentation and poster writing will be developed.

## PHAR 310

## harmaceutics 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 pharmaceutics courses and is designed to provide of formulation and dispensing of liquid dosage forms and their delivery systems. In particular, this course will cover an in depth knowledge regarding pharmaceutical solutions, suspensions and emulsions. The composition, preparation, performance (both in vitro and in vivo) and the implication
and relationship with patient-centered care in relation with liquid dosage forms will also be discussed. The lab compounded prescriptions that will train the student on pharmaceutical skills and the practical concepts involved in the preparation, use, and evaluation of liquid dosage forms.

## Prerequisite PHAR 210

## PHAR 311

Pharmaceutics III
lin 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, semisolid and gaseous dosage forms and their delivery systems. In particular, this course covers an in depth knowledge regarding tablets, The composition preparation performance (both in vitro and in vivo) and the implications and relationship with patient-centered care in relation with solid, semisolid and gaseous dosage forms are also discussed. The lab component of this course will focus on contemporary
compounded prescriptions that will train the student on the pharmaceutical skills and the practical concepts involved in e preparation, use, and evaluation of tablets, lozenges,

Prerequisite:
HAR 310

## PHAR 316

Charmacokinetics
redit Hours:
Pharmacokinetics I is designed to introduce the pharmacy tudent to the basic principles of pharmacokinetics elimination of drugs and metabolites in the human bod rug transport, parenteral and enteral routes of drug administration, and factors effecting these processes. Mathematical pharmacokinetic models and drug delivery processes are also studied

## PHAR 317

Pharmacokinetics II
redit Hours: 1
harmacokinetics I| is designed to assist the pharmacy udent in gaining a greater appreciation of the nd to assist the student in using these concepts for the
ational design and monitoring of individualized dosage egimens for commonly used and low therapeuticmanagement of patients.

## PHAR 320

## Pharmacology I

Pharmacology I (PHAR320) is the first of a series of four (PHAR320, PHAR321, PHAR420, PHAR421) pharmacology courses and is designed to provide an living systems. This course is integrated with the pathophysiology and therapeutics course series, and is delivered in a disease-based approach. Drug classes and epresentative agents are covered in the context of the systems and diseases discussed. For this course, this will include a review of basic concepts and drug classes used for neurologic, psychiatric, eyes, ears, nose and hroat, respiratory, gastrointestinal and urologic disorders or each therapeutic drug classification, topics to be mechanism(s) of action pharmacokinetic characteristics oxicity profiles and related pharmacological issues. These opics will complement content taught in the balance of integrated courses. Students will also become familiar with common abbre

## Prerequisite

## PHAR 321

## Pharmacology II

Pharmacology II (PHAR321) is the second of a series of four (PHAR320, PHAR321, PHAR420, PHAR421) pharmacology courses and is designed to provide an understanding of how drugs exert their effects pathophysiology and therapeutics course series and is delivered in a disease-based approach. Drug classes and epresentative agents will be covered in the context of the systems and diseases discussed. For this course, this will nclude a review of drug classes used for cardiovascular, dermatologic, bone and joint disorders. For each herapeutic drug classification, topics to be covered include epresentative drugs, chemical structures, mechanism(s) faction, pharmacokinetic characteristics, toxicity prof amplement content taught in the balance of integrate courses. Students will also become familiar with common abbreviations and vocabulary terms related to drug therapy

## PHAR 320

## PHAR 330

## Sturtured Pr

edit Hours: 4
AR430 PH330) is the first of a series of six (PHAR330, ourses designed to provide stud, PHAR532, PHAR533) practice-based opportunities that apply the knowledge and skills gained through campus-based learning. These opportunities will occur in select hospital, community and inic-based pharmacy practice sites and are structured o lead to the attainment of specific learning objectives. Select pharmacy practitioners will serve as mentors, rol models, trainers and assessors of student learning.

## PHAR 340

rofessional Skills II
redit Hours:
harmacy Professional Skills III (PHAR340) is the third a series of six (PHAR240, PHAR241, PHAR340, ontinues with the development of knowledge and skill related to pharmaceutical care, medication prescribing and dispensing processes, and drug information resource etrieval and application in pharmacy practice. This course ontinues exercising interpersonal communication and evelopment of the skills needed to interact with patients, milies and other health care professionals.

Prerequisite:
PHAR 241
PHAR 341
rofessional Skills IV
redit Hours: 2
Pharmacy Professional Skills IV (PHAR341) is the fourth a series of six (PHAR240, PHAR241, PHAR340,
PHAR341, PHAR440, PHAR441) courses. PHAR341 related to pharmaceutical care, medication prescribing and dispensing processes, and drug information resource retrieval and application in pharmacy practice. This course ontinues exercising interpersonal communication and evelopment of the skills needed to interact with patients, families and other health care professionals.

Prerequisite:
PHAR 340

## PHAR 350

Pharmacy Ethics and Law
redit Hours:

Pharmacy Ethics and Law (PHAR350) is a course that focuses on legal, cultural, and ethical aspects of pharmacy concepts introduced in previous courses and is intended provide the student with a more in depth understanding of the related issues in both a local and international environment.

## PHAR 359

## iterpretation of Lab Data I

## Credit Hours:

Iterpretation of Lab Data I (PHAR359) is designed to performed in clinical chemistry, hematology, microbiology and imaging (e.g. $x$-ray, ultrasound). The course will ocus 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 anatomical system 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
nterpretation of Lab Data II (PHAR360) is designed to ocus on the clinical interpretation of the various tests performed in clinical chemistry, hematology, microbiology performed in clinical chemistry, hematology. The course will focus on the physoiological basis for the test, the basic principles and procedures for he test, and the clinical significance of the test results, ncluding quality control and normal values. The course is integrated with the physical assessment course, and is delivered in an anatomical system-based approach to he nervous system, head and neck systems, respiratory system, gastrointestinal system, genitourinary system, cardiovascular system, peripheral vascular system,
musculoskeletal and the dermatologic systems.

## HAR 361

Patient Asses
Patient Assessment Laboratory I (PHAR361) is desig to introduce the pharmacy students to the various echniques and tools necessary to conduct physical examinations and to monitor changes caused by common disease states and drug therapy. In addition this cours
evaluating patient information in order to make appropriate
decisions regarding the health of the patient and his decisions regarding the health of the patient, and his or order to resolve the identified drug related poren and to ensure outcomes of drug therapy are met This course will be delivered in an anatomical system-based approach to health management. The systems that will 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.

## \section*{PHAR 362}

## 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 decisions regarding the health of the patient, and his or her drug therapy needs and problems and to intervene in order to resolve the identified drug-related problems and to ensure outcomes of drug therapy are met. This course will be delivered in an anatomical system-based approach to health management. The systems that will covered include the nervous system, head and neck systems, respiratory system, gastrointestinal system, genitourinary system, musculoskeletal and the dermatologic systems.

## PHAR 370

## Pathophysiology <br> Credit Hours: 1

Pathophysiology I (PHAR370) describes the incidence, etiology and clinical manifestations of local and systemi body responses which reflect adaption and course of
a disease process. PHAR370 is integrated with the a disease process. PHAR370 is integrated with the courses in pharmacology and pharmacotherapy and is management. The systems that will covered include the nervous system, head and neck systems, respiratory system and the gastrointestinal system.

## PHAR 371 <br> <br> Credit Hours: 1

 <br> <br> Credit Hours: 1}Pathophysiology II (PHAR371) describes the incidence etiology and clinical manifestations of local and systemi body responses which reflect adaption and course of a disease process. PHAR371 is integrated with the courses in pharmacology and pharmacotherapy and is
delivered in anatomical system-based approach to health management. The systems that will covered include the system, gastrointestinal system, genitourinary system, cardiovascular system, peripheral vascular system, musculoskeletal and the dermatologic systems.

## PHAR 380

## Pharmacotherapy Credit Hours: 3 <br> Credit Hours: 3

Pharmacotherapy I (PHAR380) is the first of a series of our (PHAR380, PHAR381, PHAR480, PHAR481) course dealing with drug-based therapeutics. The course is
integrated with the pathophysiology and pharmacolog 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, psychiatric, ophthalmic, otic, respiratory, gastrointestina and urologic disorders. For each system, topics to be covered include epidemiology and etiology, clinical presentation, investigations, diagnosis, goals of therapy,
therapeutic choices, treatment algorithms (including clinica practice guidelines), dosing and pharmacoeconomic practice guidelines, dosing and pharmacoeconomic
considerations. Students will also become familiar with relevant patient management issues. These topics will complement content taught in the balance of integrated courses.
Prerequisite
PHAR 221

## PHAR 381

## Pharmacotherapy

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 include a review of the therapeutics for cardiovascular enal, dermatologic, bone and joint disorders. For each system, topics to be covered include epidemiology and etiology, clinical presentation, investigations, diagnosis, goals of therapy, therapeutic choices, treatment algorithms (including clinical practice guidelines), dosing and pharmacoeconomic considerations. Students will also become familiar with relevant patient management balance of integrated courses.

## PHAR 390

Integrated Case-Based Learning
Credit Hours: 2

Integrated Case-based Learning I (PHAR390) is the first in a series of five (PHAR390, PHAR391, PHAR490, and other activities aimed at integrating scientific and linical 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. e 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 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 balance of integrated courses. Patient and disease management will oc

## Prerequisite:

## PHAR 405

Pharmacy Research, Evaluation and Presentation kills III (PREP skills III)
edit Hours:
harmacy Research, Evaluation and Presentation Skill (PHAR405) is third of six (PHAR305, PHAR306, PHAR405, PHAR406, PHAR505, PHAR506) courses designed to introduce the students to the detailed aspe 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 evaluation of reserch studios and literature will be a primary focus. In addition, oral presentation and debating skills will be developed.

## Prerequisite

PHAR 406

## rmay Skills IV (PREP skills IV)

Pharmacy Research, Evaluation and Presentation Skills V (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 evaluation of research studies and literature will be a primary focus. In addition, oral presentation and debating kills will be developed.

Prerequisite
PHAR 405

## PHAR 410

Pharmaceutics IV
Credit Hours: 2
Pharmaceutics IV (PHAR410) is the fourth of a series of four (PHAR210, PHAR310, PHAR311, PHAR410) pharmaceutics 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 addressed. Additionally, the different techniques utilized in the analysis of pharmaceutical products will be introduced.

## HAR 415

Credit Hours: 2
Toxicology (PHAR415) is an introductory toxicology course for pharmacy students. It is designed to provide a basic understanding of toxicology as it pertains to drugs and common toxins and toxicants likely to be encountered in pharmacy practice. Topics to be covered will include principles of toxicology, selected potential toxins and oxicants, signs, symptoms and mechanisms of toxicity, the 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 oxicants and information resources on toxins and oxicants

## PHAR 420

Pharmacology III
Pharmacology III (PHAR420) is the third of a series of four (PHAR320, PHAR321, PHAR420, PHAR421) pharmacology courses designed to provide an understanding of how drugs exert their effects on living systems. The course is integrated with the pathophysiology and therapeutics course series and is delivered in a disease-based approach. Drug classes and representative agents will be covered in the context
of the systems and diseases discussed. For this course this will include a review of drug classes used for treating cancer (including anti-emetics), leukemias, anemias, immunosuppressants, endocrine-metabolic disorders including diabetes, obesity, osteoporosis, thyroid disorder and hypothalamic, pituitary and adrenal disorders. For each therapeutic drug classification, topics to be covered will include representative drugs, chemical structures, mechanism(s) of action, pharmacokinetic characteristics, opics will complement conte

Prerequisite
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## PHAR 421

Pharmacology IV
Pharmacology IV (PHAR421) is the fourth of a series Pharmacology IV (PHAR421) is the fourth of a series
of four (PHAR320, PHAR321, PHAR420, PHAR421) pharmacology courses designed to provide an understanding of how drugs exert their effects on living systems. The course is integrated with the pathophysiology and therapeutics course series and is delivered in a disease-based approach. Drug classes and representative agents will be covered in the context of the systems and diseases discussed. For this course, this will include a review of drug classes used for managing gynecologic
disorders and infectious diseases including bacterial, fungal, protozoal and viral infections. Topics to be covered will include representative drugs, chemical structures, mechanism(s) of action, pharmacokinetic characteristics, toxicity profiles and related pharmacological issues. These topics will complement and complete content taught in the balance of the integrated courses. Students wil also become familiar with common abbreviations and vocabulary terms rel

Prerequisite:
HAR 420
PHAR 425

## Pharmacognosy, Alternative/Complementary

## Treatments

Credit Hours: $\mathbf{2}$
Pharmacognosy, Complementary/Alternative Medicine Treatments (PHAR 425) is designed to introduce students Treatments (PHAR 425) is designed to introduce students
in their third professional year to phytopharmaceuticals, utilizing an evidence-based approach. The course will build on previous knowledge in organic and medicinal chemistry, as well as pharmacology and pharmacotherapy The focus is on herbs with proven clinical efficacy and discussions will include plant name, part used, adverse ects, contraindications, potential drug interaction comparison between herbal preparations and other drugs in the management of specific conditions will be included o stimulate rational and evidence based approaches to therapeutic recommendations.

## PHAR 430

Structured Professional Practice Experience II
Credit Hours: 4
PEEP (PHAR430) is the second of a series of six PHAR533) Cours variety of practice-besigned to provide students with 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 hel practitioners will serve as mentors, role models, trainers and assessors of student learning.

Prerequisite
PHAR 330

## PhAR 440

Professional Skills V
Credit Hours: 2
Pharmacy Professional Skills V (PHAR440) is the fifth of a series of six (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 etrieval and application in pharmacy practice. This cours dontinues exercising inerpersonal communication and families and other health care professionals.

Prerequisite
PHAR 341

HAR 44
rofessional Skills V
redit Hours:
harmacy Professional Skills VI (PHAR441) is the PHAR340, PHAR341, PHAR440, PHAR441) Courses. PHAR441 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 interpersona interact with patients, families and other health care professionals.

## PHAR 440

PHAR 444
Drugs in Sport
This course is designed to introduce undergraduate students in healthcare and/or sport-related programs to an evidence-based approach to the safe and effective use of drugs in sports. The course covers reasons for athletes to take drugs; international perspective regarding doping and anti-doping in sport; national and international regulations of doping in sport; the World Anti-doping Agency (WADA) prohibited list, Cologue list and testing and monitoring for isuse in sport and the ro includes the prevalence of drug in sporting events and in preventing the use of prohibited substances by athletes.

## PHAR 445

## Rx Elective I

Credit Hours: 2
Pharmacy Elective I (PHAR445) is the first in a series three successive elective courses for P-3 and P-4 students. PHAR 445 is delivered as a two-part cour which provides the students with an opportunity to of PHAR445 involves the required attendance and participation at the biweekly Faculty Research Seminar The second component is a research opportunity for students, whereby they work in a $2: 1$ relationship with a fill-time faculty member on an assigned directed studies or judents to futher course is to prove an opportun elected pharmacy topics and to further enhance thei esearch skills. Projects will be variable in focus, with clearly defined and achievable research objectives, study design and activities. Projects will be pre-approved by course coordinators, completed within one semester
and will not require external funding. These projects wil enhance the stu

## PHAR 446

Rx Elective II
Credit Hours: 3
Pharmacy Elective II (PHAR446) is the second in a series of three successive elective courses for P-3 and P-4 students. PHAR 446 is delivered as a three-part course which provides the students with an opportunity 0 enhance their critical thinking, literature evaluation and involves the required attendance and participation at the iweekly Faculty Research Seminar The second component is a weekly "journal club", lead by faculty member. Journal clubs have become a popular mechanism for published study review and critique, and to keep abreast of the literature, and we will employ this process in this course. The third component involves conducting formal debates on a pharmacy related topic. Pharmacy deals with constant change and debate is a his course, students will be introduced to "formal" debate and develop some fundamentals debating skills.

## PHAR 450

## Healthcare Delivery System

## Credit Hours: 1

Healthcare Delivery Systems (PHAR450) is a course designed to expand upon content introduced in Pharmacy and Health Care (PHAR230) and the Professional Skills gained during the SPEP-1 (PHAR330) clerkship. This course is intended to better prepare students to be knowledgeable about the various healthcare settings in which they may ultimately work. The specific goal of the course is to further improve the students understanding of the development, organization, components and haracteristics of contemporary health care systems. Thi will be undertaken through a detailed exploration of the optimal pharmacy services in a hospital and community environment.

## PHAR 470 <br> athophysiology II

Credit Hours: 1
athophysiology III (PHAR470) describes the incidence, etiology and clinical manifestations of local and systemic body responses which reflect adaption and course of courses in pharmacology and pharmacotherapy and delivered in anatomical system-based approach to health management. The systems that will covered include
the metabolic-, endocrine-, hematological/immune- and reproductive systems. The basic cellular mechanisms also be covered.

## Prerequisite:

PHAR 371

## PHAR 471

Pathophysiology IV
Credit Hours: 1
athophysiology IV (PHAR471) describes the incidence, etiology and clinical manifestations of local and systemic a disease process. PHAR471 is integrated with the courses in pharmacology and pharmacotherapy and is delivered in anatomical system-based approach to health management. The topics that will be covered include disorders of the female reproductive system and local and systemic infectious diseases.

\section*{PHAR 480

\section*{PHAR 480

## PHAR 480 <br> Pharmacotherapy II

Pharmacotherapy III (PHAR480) is the third 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 ncologic/haematologic, immunologic, and endocrinologi disorders. For each system, topics to be covered include epidemiology and etiology, clinical presentation investigations, diagnosis, goals of therapy, therapeutic choices, treatment algorithms (including clinical practice guidelines), dosing and pharmacoeconomic onsiderations. Students will also become familiar with complement content taught in the balance of integrated courses.

## PHAR 381

## PHAR 481

harmacotherapy IV
dit Hours: 3
Pharmacotherapy IV (PHAR481) is the fourth of a series of four (PHAR380, PHAR381, PHAR480, PHAR481) courses dealing with drug-based therapeutics. The course is integrated with the pathophysiology and pharma
course series and is delivered in a disease-based approach to health management. For this course, this
will include a review of the therapeutics for obstetric and gynecologic disorders and infectious diseases. For each system, topics to be covered include epidemiology and oals of therapy, therapeutic choices, treatment algorithms (including clinical practice guidelines), dosing and pharmacoeconomic considerations. Students will also become familiar with relevant patient management issues. These topics will complement content taught in the balance of integrated courses

## Prerequisite

Prerequisite
PHAR 480

## HAR 485

Pediatrics/Geriatrics
Credit Hours: 1
Pediatrics/Geriatrics is a course designed to introduce pharmacy students to general considerations pertaining to two special patient populations. The course is designed to in other courses. Topics covered include medical and drug-related issues that affect early and late age groups, including the pharmacological aspects of pediatric development and the aging process. Challenges in the
delivery of pharmaceutical care to these groups will be delivery of pharmaceutical care to these groups will be discussed.

## PHAR 490

## Itegrated Case-Based Learning

 Credit Hours: 2integrated Case-based Learning III (PHAR490) is the hird 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 problembased learning environment. Patient case complexity ncreases across the sequentially delivered courses. For this course, emphasis will be dien comprehensive delivery of pharmaceutical care to patients with disorders. These topics will complement content taugh in the balance of integrated courses. Patient and disease management will occur in the context of a virtual health care environment.

## Prerequisite

PHAR 391

## PHAR 491

Integrated Case-Based Learning IV
Credit Hours: 2 Integrated Case-based Learning V (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 scien 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 balance of integrated courses. Patient and diseas management will occur in the context of a virtual health care environment.

Prerequisite
PHAR 505
harmacy Research, Evaluation and Presentatio kills V (PREP skills V)
redit Hours:
harmacy Research, Evaluation and Presentation Skills $V$ PHAR505) is fifth of six (PHAR305, PHAR306, PHAR405 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 elated research, as well as skills for critical evaluation addition oral presentation and debating skills will be developed.

## PHAR 406

## HAR 506

Pharmacy Research Evaluation and Presentation kills VI (PREP skills VI)
redit Hours: 1
Pharmacy Research, Evaluation and Presentation Skill (PHAR506) 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. 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.

## rerequisite <br> PHAR 505

PHAR 525
Pharmacoeconom
The PHAR525 course starts by providing brie understanding of the approach to resource allocation in relation to 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 It presents various techniques, tools and strategies to evaluate the economic contribution of drug therapies. The course also follows up on some of the contents in courses PHAR231, PHAR305 and PHAR405, regarding pharmacoepidemiology, describing strengths and weaknesses of different epidemiological studies design, including the basic concepts and methods of biostatis pharmacoeconomics research.

## PHAR 530

## tructured P

## Credit Hours: 4

SPEP III (PHAR530) is the third of a series of six (PHAR330, PHAR430, PHAR530, PHAR531, PHAR532, HAR533) courses designed to provide students with 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 studen earning.

## Prerequisite

PHAR 430

## PHAR 531

## Structured P

Credit Hours: 4
SPEP IV (PHAR531) is the PHAR330, PHAR430, PHAR530, PHAR531, PHAR532, PHAR533) courses designed to provide students with a variety of practice-based opportunities that apply the and skills gained through campus-based earning. These opportunities will occur in select hospital, community and clinic-based pharmacy practice sites and ach designed to lead to the attainment of specific learning

## PHAR 532 <br> Structured Professional Practice Experience $V$

 Credit Hours: 4SPEPV (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 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 each designed to lead to the attainment of specific learning objectives. Select pharmacy practitioners will serve as mentors, role models, trainers and assessors of studen learning.

## PHAR 535

Pharmacy Ma
Credit Hours: 2
The Pharmacy Management course aims to provide comprehensive management overview in terms of concepts and techniques to students 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, skils required to excel in the areas of entrepreneur
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 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

Credit Hours: 3
Pharmacy Elective III (PHAR545) is the third in a series of three successive elective courses for P-3 and P-4 tudents. In 10AY, PHAR545 will be delivered as a two-part course which will provide the student with an opportunity o enhance their research skills. The first component f PHAR545 will involve the required attendance and participation at the Faculy Research seminar. The secon 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 of selected pharmacy topics and to further enhance their research skills. Projects will be variable in focus, with clearly defined and achievable research objectives, study design and activities. Projects will be pre-approved by course equire external funding. These projects wil

## 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, PHAR49 and other PHAR590) courses and involves case stud and other activities aimed at integrating scientific and
clinical concepts from across all courses in a problembased 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 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 courses. Patient and disease management will occur in the context of a virtual health care environment, emphasizing ransitioning patients throughout the continuum of care with consideration of the social and economic dimensions of medication management.

## Prerequisite <br> PHAR 491

PHIL 100
Logic and Critical Thinking Credit Hours: 3 In this course, we will study and practice the basic hinking and methods of logic and critical hinking.

## PHL 110

## troduction 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 methodolog

- 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 -
- Axiology: logic as the study of truth, ethics as the study
of morals, and aesthetics as the study of norms of beauty. - The problem of body and mind.


## PHIL 114

## Critical Thinking

Credit Hours: 3
Through this course, students come to learn the required skills that help enhance man's thinking to come to better decision-making and problem solving. The content of is - Vagueness and Ambiguity - What Critical Thinking is - Vagueness and Ambiguity - Language And Definition and Example Definitions, Avoiding Definition Mistakes Types of Disagreements: Factual , Verbal, Interpretive and Evaluative - Common Mistakes In Thinking - Reasoning: Patterns Of Deductive Thinking, Inductive Thinking Modes ofrodiferent disciplines such as: history selected ics, social issues, natural science, and ethics application of thinking skills.

Prerequisite:
ENGL 202 OR CBT 173 OR IELT 5.5 OR T02 500 OR IBT 061 OR ENGLF073 OR ENGL 004

## \section*{PHIL 200}

Introduction to Ethics
this course, we will study some of the main ethical theories in the history of philosophy, and consider these theories in

## PHIL 210

lamic Philosophy
Credit Hours: 3
解 and figures in classical Islamic philosophy.

Prerequisite
PHIL 110

HLL 300

## Knowledge \& Reality

Credit Hours: 3
In this course, we will study some of the main problems and theories in late modern and contemporary
epistemology and metaphysics.
Prerequisite
PHIL 100 AND PHIL 110
PHIL 310
Philosophy and Contemporary Life
Credit Hours: 3
In this course, we will examine the philosophical dimensions of some of the most urgent and controversial issues facing humanity in today's world
Prerequisite
HIL 200

## PHIL 320

## Asian Values

This course will cover the main themes of the major philosophies and religions of the Far East, including Hinduism, Buddhism, Taoism, and Confucianism. Additionally, we will explore some of the ways in which people in today's Far Eastern societies relate to

## Prerequisite

PHIL 110
PHIL 330
Philosophy of History
Credit Hours: 3
his course will cover the main problems concerning the nature and limits of historical knowledge, the relation
between history and other disciplines, and the existence between history and other disciplines, and the existence, in the writings of Ibn Khaldun, Hegel, Marx, and others.

Prerequisite
PHL 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

The special topics course will provide in-depth focus on a specific philosophical topic, thinker, or school of thought The topic of each Special Topics course will be announced each term, and will be designed to engage the student in a wide range of philosophical skills and subject areas, and on problems that are highly relevant to the students' lived circumstances.

Prerequisite
PHIL 100 AND PHIL 110

## PHYS 10

## General Physics

Credit Hours: 3
Vectors - motion in one dimension - motion in a plane Newton's laws - work and energy - potential energy -lion- lasticity - fuid mechancs.

## Prerequisite:

MATH 101 AND ( ( (ENGL 040 OR ENGL C002 OR APIC 400) AND (ENGL 041 OR ENGL R002 OR APRS 100) AND (ENGL 042 OR ENGL W002 OR APWS 225) ) OR ACCUPLACER Integrated Core minimum score of 400 APIC 400) AND ESL Reading Skills minimum score of
minimum score
100)

R IELTS 500 OR TOEFL IBT 061 OR TOEFL CBT 173 OR ENGL 201 OR ENGL 202)

## PHYS 102

## General Physics

redit Hours: 3
eriodic motion - mechanical waves - superposition of waves - sound- heat and temperature - quantity of eat - mechanism of heat transfer- thermal properties of atter - the first law of thermodynamics- the second law thermodynamics - the nature and propagation of ligh geometric optics - optical instruments.

## rerequisite

PHYS 101
PHYS 103
General Physics Lab
redit Hours: 1
his is the Lab course covering the subject matter of PHYS101, and PHYS102 and designed to be taken concurrently with PHYS102. The course presents an
introduction to the methods of experimental physics Emphasis is placed on developing students' skills in experimental techniques, data analysis, and scientific execute a series of experiments on Kinematics of motion, Kinetic and potential energy, Oscillatory motion, Thermal properties of matter, and Viscosity. The course includes computer-based experiments in Classical Mechanics
Prerequisite:
PHYS 102 Concur

## PHYS 110

## General Phys

This course is designed primarily to be appropriate for students planning to major in Nutrition, Pharmacy, and Biological and Environmental sciences. It is algebra- and trigonometry-based study of some selected topics drawn from classical and modern Physics, with an emphasis on applications to the course-targeted specialty areas. Topics force and energy, States of matter, Elasticity and elastic modulus, Basic of Fluid mechanics, Thermal properties of matter, Electrostatics, Electrodynamics, Elements of Electric Circuits, Electricity and the human body, Sound and light, Optical instruments, and Radiation and Radiation protection.

## PHYS 111 <br> PHYS 111

Practical Physi
Credit Hours: 1
This is the Lab-based course to supplement the lectur 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, Therma Spectroscopy and Radioactivity The course includ computer-based experiments in Classical Mechanics.

Prerequisite
PHYS 110 Concu

## PHYS 183

## ntroduction <br> 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 algebra and trigonometry-based study of some selected
topics drawn from classical and modern physics, with an emphasis on real-life applications. Topics studied oflude: Measurements and Units, Classical description Elasticity and elastic modulus, Heat and Thermal properties of matter, Electrostatics, Electrodynamic Elements of Electric Circuits, Magnetostatics, Magnetic ffects of electric current, Electromagnetic Induction, Magnetic Materials, Wave Motion, Sound and light, Optica istruments, Atomic Structure of Matter, and Radiation an adiation protection. This course includes experimental -

## Prerequisite:

( ENGL 040 OR ENGL C002 OR Total for Integrated Core 00) AND (ENGL 041 OR ENGL RO02 OR ESL Reading Skills 100) AND (ENGL 042 OR ENGL W002 OR APL for Writing Workshop 225) ) OR (Total for Integrated Core 00 AND ESL Reading Skills 100 AND ESL Language Use 100) OR TOEFL_Inst Testing Prog 500 OR TOEFL 73 OR Int Eng Lang Test Syst-IELTS 5.5 OR ENGL 04 OR ENGL 111 OR ENGL 250 OR ENGL 201 OR ENGL 202

## PHYS 191

## General Phys

edit Hours:
Physics and Measurements: Units and Physical
Quantities- Vectors- Motion in One Dimension-Motion
Tow Dimension- Horizontal Motion- Vertical MotionProjectile Motion- Kinematic Equations.
The Laws of Motion: Newton's First Law- Newton's second Law- Some Applications of Newton's LawsCircular Motion and its Application.
Work and Energy: Kinetic Energy- Work Done b Constant Force- Work Energy Theorem- Potential Energy onservation of Energy- Quantization of Energy.
mpulse of Momentum- Collisions- Elastic and Inelastic collision- The Center of Mass- Motion of a System of Particles.
Rotational Motion: Angular Position, Velocity and Acceleration- Rotational Kinematic Motion EquationsAngular and Linear Quantities- Rotational Kinetic Energyalculations of Moments of Inertia- Torque- Work, Powe and Energy in Rotational Motion-Rolling Motion of a Rig

## Prerequisite

MATH 101
HYS 192
eneral Physics for Engineering Laboratory I

Credit Hours:
his is the Lab-based course covering the subject matter PHYS 191.The course presents an introduction to developing student's skills in experimental techniques, data analysis, and scientific reporting of lab work. During he course students execute a series of experiments on Kinematics of motion, kinetic and potential energy, Oscillatory motion, Thermal properties of matter, and Viscosity. The course includes computer based experiments Classical Mechanics.

Prerequisite:
PHYS 191 Concur

## PHYS 193

## General Physics for Engineering

Credit Hours: 3
ecrostatics: Electric charges, atomic structure harging and induction, Coulomb's law, the electric field nergy capacitors, stored energy in capacitors. The Electric Current• Resistors, electromotive force. Ma Properties of Matter: Magnetic material, molecular theory of magnetism, magnetization and magnetic intensity, erromagnetic, hysteresis. Magnetic Fields and Magnetic 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, orce between parallel conductors, Ampere's law, motion mutual inductance, energy associated with inductors. ight: Nature of light, sources of light, light waves and their speed, the laws of reflection and refraction of ight, absorption and illumination. Wave Phenomena: Interference, diffraction, polarization of light.
Prerequisite:
PHYS 191 OR PHYS 103 ) AND (PHYS 192 OR PHYS

1) OR PHYS 181 OR PHYS 180

## HYS 194

Experimental General Physics for Engineering Credit Hours: 1
This is the Lab course covering the subject matter of PHYS 193. The course presents an introduction to he methods of experimental physics. Emphasis is on of lab work. During the course students exesute 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

enewable Energ
edit Hours: 2
Electric charge and electric field: Coulomb's law and Gauss's law. Electric potential - capacitance and dielectric current - resistance - electromotive force - direct current circuits. Magnetic field and magnetic forces - sources
of magnetic field: the force between parallel conductors

- Amper's law and its applications - electromagnetic
induction: Faraday's law, Lenz's law, Maxwell's equations circuits, resonance circuits, filters, transformers

Prerequisite:
PHYS 102 AND PHYS 103

## POPL 100

Introduction to Public Policy and Analysis redit Hours: 3
ublic policy incorporates policy formulation, analysis, valuation and management as well as an understanding 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 conceptua foundations and craft skills relevant to policy analysis. Students learn how to define policy problems, determin goals, design policy alternatives, and systematically assess trade-offs to make recommendations

## POPL 200

## Ethical Develo

Credit Hours:
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 hat ought to shape public institutions, guide public authorities, and inform the public's judgments

## POPL 210

isaster Planning and Crisis Management Fundamentals
Disaster-planning focuses on understanding evidence based best practices for disaster operations and all aspects of disaster resilience. It center on the role eadership 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 heories of disaster management, logistics/supply 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

conomic 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; ) The resource curse, economic diversification, and the experience of the Gulf countries; 4) Oil, accountability, and onflicts; 5)
he global gas market and the role of Qatar; and 6) Rational use of energy, renewable energy sources, and

## uclear energ

## 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 and regulation of infrastructures; operation and contro 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 egulations 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 cours will be empirical, but attention will be given to majo 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
redit Hours:
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 studies of spending, taxing and financing activities of government. Focus is given to new developments in public conomics such as behavioral public economics and polic

## POPL 230

## limate 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, 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 dobl

## POPL 232 <br> nergy \& Environmental Economics

 redit Hours: 3There is currently a strong need for high-quality policy development in the economics of energy production an consumption and Environment. Government leaders operating in these domains need scientific data to make informed decisions, especially from an economic point of specific global energy issues and Environment from an economic perspective to improve the information available to decisionmakers in this field

## POPL 241

Community-Based Policy Development and Analysi redit Hours:
The course has two primary learning objectives. First it examines the moving parts of the policy process at the community level, including the primary actors making process, as well as the core theories and concepts for understanding these stages, which include genda-setting, policy formulation, policy adoption, and mplementation. Second, the course will provide the necessary tools for students to successfully egotiate the policy process. In particular, students participate in the policy process through a combination writing and oral presentation assignments. Course topic will be explored through reading and discussion of both scholarly work and case studies

## OPL 242

## Law and Public Policy

redit Hours:
his course addresses legal systems and criminal justice polity. Emphasis is on the examination of media and olicy initiatives that shape criminal justice responses and the impact of race, class, economics, and gender on development of criminal justice, legal systems and public policy is examined.

## POPL 245

ntroduction to the Theory and Practice of Urban
Planning

## Credit Hours: 3

Within this course, analysis and discussion are devoted planning models, planning decisions, and alternative planning roles. Students will focus their studies on comprehensive and strategic planning, community participation, new urbanism concepts, equity concerns, and planning at local, regional, and state levels

## POPL 285 <br> mpact Assessment Studies

This course will explore the key elements and analytic techniques used in impact assessment from an urban planning perspective. It will investigate how application of urban planning impact assessment affects project d 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 mplementation of projects or governmental actions Practical assignments will give students an introduction to he state of practice and the range of analytic techniques sed in impact assessment

## POPL 300

Principles and Tools for Evidence-Based Policy Decision Making
This course introduces students to the evaluation of social programs for policy-based decisionmaking. Focus is on the principles for the development of impact evaluations; the assessment of whether the program was implemented as planned; the quality of the program's services; the elationship among the program operation rules, the examination of the benefits and costs of changes; and the influence of impact evaluations in public policies

## POPL 320

Energy Risk Managemen to energy risk management. Some of the key topics to be changing market conditions and deregulation; tools used manage volatility, including futures and options for energy risk management; environmental risk management, and risk financing for the energy sector

## rerequisite

OPL 228
POPL 321

## Energy: Science, Technology, and Human Usage

This course covers the technologies by which humans appropriate energy for industrial and societal use The course also covers the physics and economics of the resulting human energy system; fuel sources and relationship to energy flows in the Earth system; and The goal is to provide a technical foundation for students interested in careers in the energy industry or in energy policy

## POPL 32

Credit Hours: 3
This course will examine the key principles in international law and apply them to contemporary international security how they operate with international law in their responses to global security threats will be examined through a case study approach issues such as the use of force human rights, terrorism, environmental threats, and drug trafficking will be examined

## POPL 330

International Environmental Climate Change Politics and Policy

## Credit Hours:

This course focuses on the international frameworks for responding to climate change. It includes a review of the history of international responses to climate change, highlights the negotiations - what is agreed, what is outstanding, and where the fault lines exist-and then examines efforts at integrating climate change into various international institutions. The course includes an ability of countries to fulfill their international commitments under other agreements. The course also examines the role of a range of international organizations such as the World Trade Organization, the World Intellectual Property Organization, the UN Security Council, and the UN High

Commissioner for Refugees
Prerequisite
POPL 230

## POPL 335

Credit , Technology \& Policy
Credit Hours: 3
This course will provide students an introduction to several aspects of science and technology related policies including briefings on: (a) cyber security, nuclear policy and bio-ethics; (b) institutions funding and effecting of science that influence policy. The course provides framework for discussion on the basis, challenges, and limitations of policies that promote and guide scientific inquiry and applications

## POPL 340

Organizational Behavior and Management in Public Service Agencies
The course covers the following topics: organization structure and bureaucracy, management issues and processes, managerial psychology, managing diversity, leadership, strategic planning, interorganizational relations, administrative law, human resource management, abor relations, personnel administration, performance measurement, program evaluation, information management, and ethics of public service. Each section of the course uses a different aspect of Public Policy or public the course are achieved by using case studies, simulation exercises, class visitors, and practical exercises that complement the assigned readings and class discussions

## POPL 345

Diversity \& Community Developmen

## redit Hours: 3

Faced with the challenge of meeting the needs of diverse communities, managers in local governments must develop innovative, cost-effective ways to deliver public services. This course focuses upon topics such as economic growth and personal well-being; economic inequality and poverty; intra-household resource allocation and gender inequality; population change, credit markets and microfinance; labor markets and trade policy.

## Prerequisite

## POPL 350

Housing \& Community Developmen
Credit Hours: 3

This course offers an intensive analysis of the major public policy issues and methodological problems encountered using program design the national a evels. Students develop various analytical skills that will assist them in the evaluation of policy-making processes and in the development of appropriate strategies for housing program effectuation from an urban growth management perspective. Students also will examine and valuate current housing issues in the context of the rapid rbanization, with an emphasis on the issues of: housing ventories, residential location, residential financing specific public housing policies, and the social, economic and political aspects of housing for minority groups. The future of housing and housing research needs are stressed

## POPL 353

Transportation and Transit-Oriented Developmen Credit Hours:
This course focuses on integrating land use
transportation, and environmental planning. Readings provide students with a comprehensive overview of the economic, social, and regulatory forces that influence and use and transportation investments 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 ole of emerging transportation and telecommunications ubag th development a sustainable mode implications of urban air pollution, water quality and availability, and climate change for regional land use and transportation planning

## Prerequisite

OPL 375

## Urban Sustianability

Credit Hours: 3
his course involves a reappraisal of urban development, as well as environmental, socio-economic policies agains an examination of the role of cities in global environmenta change. The role of cities are examined regarding how they play in to the larger question of sustainability and also in the preservation of heritage. Moreover, the course roories regarding sustainability in an urban environment and how they have evolved

## POPL 387

Energy Conservation
redit Hours:

This course provides an examination of how government provide clean, safe, environmentallysustainable energy
supplies. In addition, the courses examines them through the perspective of sustainability and how they might be used much more efficiently. Students will examine and investigate various renewable-energy sources

## POPL 392

## Post-Disaster Re Credit Hours: 3

This course examines reconstruction policy planning in areas, countries or regions that have experienced crises o isasters. The course also examines reconstruction area course is applied through a case study approach

## POPL 400

Public Leadership and Policy Developmen

## Credit Hours: 3

This course will consider the ethical, legal, and operationa rameworks for effective, responsible public leadership organizational theory, and human resource management; discuss the central policy issues in each case; and valuate the decision-making processes exemplified by he leaders in each case. Students also will consider fundamental leadership questions, such as: What do eaders actually do? What kinds of traits are important fo successful leadership? How do followers influence the 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, policyelevant research of the major threats to international and national security in the 21 st century and the releva orces that will confront those threats. Yopics of study
will include terrorism; proliferation of weapons of mass destruction; rapid shifts in 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 echnologies

Prerequisite

POPL 431
Economic Policy Approaches to Sustainability Credit Hours: 3

This course analyses current policy options for addressing sustainable development from an economic perspective 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:

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 problem definition and the application of leading-edge solutions to those problems by business, government, and regulatory bodies

## Prerequisite: POPL 230

## POPL 439

## Environmenta

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 Economic

Credit Hours: 3
Urban economics is the study of cities, of the economic activities therein, and of the determinants ofthose activities. This course studies the main economic forces that lead to the emergence of cities and regional agglomeration, and the effects on worker productivity, 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, analyse, and solve urban problems on many different scales. The planning process engages businesses, communities, citizen groups and elected officials to define, organize and better understand our physical, natural and social environments. Urban planning aids public administrators in making transportation, housing, economic development, and appearance and design of communities

Prerequisite:
Prerequisite 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 ommunication; 2) the operation, process, and effect 3) the media and related communication industries;
3) organizational and intercultural communication; and 4) the interrelationship among communication, media and society

## Prerequisite <br> POPL 340

## POPL 485

## Public Policy <br> 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 policy case studies of spending, taxing and financing activities of government. Focus is given to new developments in public nomics and policy innovations

## POPL 486

## Alternative Energy

Credit Hours: 3
This course will introduce students to the major theoretica
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 c studies

## POPL 488

## Public Policy Planning and Analysis Credit Hours: 3

This course analyzes policy and planning issues through microeconomic theory and statistical methods. Analytic 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.

## POPL 490

## Internship

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

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 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

## undamentals of Psycholog

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 203

## Health Psychology <br> \section*{Credit Hours: 3}

covers This course various theoretical prepective, models and research it surveys the biological, behavioral and social factors that influence health .

Prerequisite:
Prerequisite
PSYC 205

## 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 (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.

## PSYC 206

## Introduction to Credit Hours: 3

Social Psychology is the scientific study of the way in which people's thoughts, feelings, and behaviors are 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 interpersonal attraction, and close interpersonal power, and groups

Prerequisite:
PSYC 201
PSYC 221
Research Design \& Statistics
Credit Hours: 3
This course is designed to help students understand what research is, how it is conducted, and its place in academi disciplines. It covers descriptive and differential statistics and provides students with valuable statistical procedure and their application to research in psychology. Students will utilize SPSS in their statistical analysis
emphasis on their psychological foundations.

Prerequisite
PSYC 201

## PSYC 300

redit Hours:
This course surveys major contemporary and classical heories of personality. Students will learn various concepts and their interrelations within each theory mphasis is placed on understanding how personality influences behavior
erequisite
PSYC 201

## PSYC 301

Developmental Psychology
redit Hours: 3
An overview of the psychology of humen life span al jor emphasis on childhood and adolescent developmenet.

Prerequisite:
(
PSYC 303
Abnormal Psychology
edit Hours:
n -depth study of classifications, symptoms, and etiology o psychological disorders and behavior pathology

## SYC 300

PSYC 304
Cognitive Psychology
edit Hours: 3
An examination of theory and research on attention, emory, language comprehension, reasoning, problemsolving, and decision-making. Course includes recitatio and laboratory

Prerequisite
SYC 206

## PSYC 306 <br> motion \& Motivatio

rearch findings and theories in the fidd of motivation and emotion.
mal and human studies are examined and the interaction between motivation and emotion with a heavy

## Prerequisite

## SYC 400

## Prin.of Cognitive Beha Therapy

## Credit Hours: 3

 This course provides students with the basic principlesof cognitive behavior therapy as an important model of herapeutic intervention
s students to review and apply the fundamental aspects of cognitive therapy.

## Prerequisite

PSYC 401

## sychological Helping Skills

 redit Hours: 3his coure atroduces students to basic helping skills sed by mental health professionals and explores process. Students are given opportunities to and chang skills learned

Prerequisite PSYC 303 AND PSYC 304

## PSYC 402

## Counselling Over the Lifespan

Credit Hours: 3
his courses covers counseling strategies to enhance human development, strategies based on major findings of developme
Prerequisite
PSYC 401

## PSYC 403

## sychophysiology

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
Psychology of fa

The course invites students to think about the family unit in terms of its systemic and relational processes. It unctioning and child development. The course introduces tudents to types of families and helps them to identiy and to distinguish between functional vs. dysfunctional amilies and family processes. It also introduces family measurement issues in clinical practice and research while remaining sensitive to family variability (ethnic, ocioeconomic, structural, and special needs).

## Prerequisite:

PSYC 206

## PSYC 405

Credit Hours:
This 250 -clock hour's field practicum placement builds on the competencies and skills student gained during heir academic training in Psychology. Students in their diacements will engage in professional activities and kills. The field practicum is educationally directed coordinated, and monitored for all students. Structured earning opportunities are tailored to allow students to compare their practice experiences, integrate knowledge acquired in the classroom, and expand knowledge beyond he scope of the practicum setting. The practicum is taken concurrently with other psychology course.

Perequisite
PSYC 221 and PSYC 400 AND PSYC 401 AND PSYC 40

## PSYC 406

## Capston

Credit Hours: 3
Building on their coursework and mentoring, student ake a Capstone Experience in which they apply the howledge and techniques to everyday psychological ake their field experience with such professionals as may 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
ocial 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 othe
people. This course covers various topics, such as esearch methods in social psychology, group dynamics, rocess, anti-social pro-social behavior, and social powe

## UBH 101

PHS: Princi

## Credit Hours: 3

This course introduces students to the inter-disciplinary field of public health, including its historical developmen and major concepts and themes, such as the difference between individual and population-based strategies for to the tools of public health, including epidemiologic principles and health policies. The format will includ ectures, discussions, and problem-based learning

## PUBH 151

## Biostatistics f

## redit Hours:

his introductory course provides students with the foundational knowledge and skills of biostatistics as 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 which introduces students to the basic skills related to 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 acing countries of different social and economic development levels, as well as the experiences of differen ountries in dealing with their challenges. Students organizations and come away with an understanding of the effects of globalization on health

## PUBH 201

## 竍 Health \& Disease

## Hours:

This course examines the connections between populatio health and the physical, biological and chemical environment. Major global environmental health issues will be discussed, including climate change, water availability and quality, and the degradation of natural resources. The course will also address relevant public policies at the

## PUBH 202

## ealth Behaviour and Society

redit Hours: 3
his course introduces students to social and behavior cience theories that are relevant to public health.
Throughout the course, students will learn to apply those heories to explain how public health problems arise and ow they can be successfully addressed. The course wil discuss the role of factors such as gender, race/ethnicity and curture on health behaviors and outcomes. The undamental concepts of inequity and inequality will be

## PUBH 205

## Research Methods for Public Health

Credit Hours: 3
his course investigates theories and practices of researc in Public Health. Students will learn different research approaches, methods and designs used in adaressing apply the different steps necessary for investigating issues relevant to public health with emphasis on instrument design, data collection and analysis

## PUBH 206

lassification of Disease
redit Hours: 3
his course introduces the ICD-9 and ICD-10 classificatio ystems, and demonstrates the importance and the
as how these systems are related to billingeases as wel

## PUBH 208

Quality of Health Care
Credit Hours: 3
his course addresses the concept of quality in health路 at both the systems level and the level of the clinical etting. At the systems level, the course will discuss in health care. At the level of the clinical setting the will address implementation, oversight, and management of quality-oriented activities

## PUBH 221

Contemporar
redit Hours: 3
This course provides students with information about variety of health issues facing the community today rough up-to-date and relevant case studies. Emphas will be placed on initiatives for health promotion and disease prevention

## UBH 222

Found. of Healt
Credit Hours
his course introduces students to the principles and evolution of health education. It provides students with
skills in the design and implementation of health education programs. Students will discover different technologies that can be used to enhance health education. The course wil also emphasize different strategies that could facilitate the success of a health education program

## PUBH 230

## Strategic Planning \& Marketing

Credit Hours: 3
his course introduces the basic theories and method 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

## iostatistic

## 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 he course will incluce a lab component using statistical oftware for data analysis

## Prerequisite

UBBH 301
Public Health Ethic
Credit Hours: 3
his course assists students in developing an ethical framework for identifying and analyzing ethical issues
that arise in the study and practice of public health. hat arise in the study and practice of public heaph medical ethics, history, political science, public health, economics, education, and communication, as well as medicine and the biological sciences

## Prerequisite

PUBH 101

PUBH 303
Eredit Hours:
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 screening and surveillance Case studies apply these onepts to a variety of infoctious, acute, and chronic health conditions affecting the population

Prerequisite:
PUBH 101 AND PUBH 241 Concur.

## PUBH 305

## \& Human Health

redit 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,
Prerequisite

## AND CHEM 103

Public Health Systems, Management, and Policy Development
redit Hours: 3
Through this course, students will learn about the public
systems and their assessment through the lenses of quity, efficiency and effectiveness. Students will also health policy, and healthcare reforms

## rerequisite

PUBH 101

## PUBH 310

群 Programs

## Credit Hours: 3

This course will give students knowledge and skills in conducting public health needs assessment in a practica manner, using both primary and secondary data sources

## PUBH 312

Planning for H E P
redit Hours: 3
his course is designed to complement PUBH 310 allowing students to use the findings of needs assessments to plan effective health education programs and interventions

## Prerequisite:

UBH 310

## UBH 314

ion Practicum
Credit Hours: 1
provides students the opportunity to conduct and to implement the results

Prerequisite:
PUBH 312

## PUBH 320

## Headit Hours: 3

This course wil examine the basic theories of communication and their application to the field of health. Skills in oral and written public health-specific communication will be emphasized. Among other opics, the course will address mass media and how the evolution in information technology has affected health communication

## Prequisite

PUBH 101

## UBH 325

## Nutritional Epidemiology

Credit Hours: 3
This course addresses techniques used to evaluate relationships of diet to health and disease in human populations. It also addresses the results of animal and risk or protective factors for disease. Students also will complete advanced diet assessment and engage in basi epidemiologic approaches to health and nutrition
Prerequisite
PUBH 303 AND NUTR 22

## UBH 338

## Financial Management of Health Car

Inancial Management teaches critical management and budgeting skills necessary to successfully run programs and organizations. It acquaints students with the purposes, characteristics, processes, and operations of financial management systems. It also develops their capabilities to nalyse financial operations, coordinate such operations with relevant heath policies and programs, and effectively Students will engage in an intensive study of the processes involved in conducting financial management and formulating financial policies Prerequisite:

## PUBH 39

ield Experienc
Credit Hours: 3
experience desiging experience is an internship experience designed to integrate public health theory, nowledge, and skills in a practice setting, which results in a writen report that demonstrates problem-solving skills, is verseen by a faculty member, and is designed around
major issue in one of the core disciplines in the degree

Perequisite
PUBH 101 AND PUBH 205

## PUBH 420

Design of Program Evaluation Systems Credit Hours: 3
This course provides content in theory, concepts, and methods of program planning and evaluation in the conte of health care and community health organizations, and implementing health serviceps related to designing 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

## UBH 42 <br> Credit Houm:tion for Women

This course focuses upon health concerns for women, recognizing differences among age, socioeconomic, and ethnic groups; synthesis of biological, psychosocial, and cultural influences of such health concerns. Students will engage in analysis and discussion regarding health meve lifis and

## PUBH 426

## Prevention Science

Prevention Scie
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 design strategies hest practices, and policy, program as they relate to the field of prevention

## Prerequisite:

PUBH 303

## UBH 430

## Health Economic

This course covers the fundamentals of health economics issues, including demand, supply and pricing, market value of life, roleal malpractice, technological change uncertainty
Prerequisite:

## UBH 439

## ublic Health Preparedness

This course is designed to prepare students to design and implement emergency response plans. It will discuss domestic and foreign emergencies and disasters and planning for their efficient medical response. Although the course's primary focus will be on human populations, zoonotic disease outbreaks, human evacuation planning and animal epidemics and their impact on public health perception and the safety of the food supply

## PUBH 499

## Capstone

Credit Hours: 3
Building on the field experience, the Capstone Project epresents the culmination of a major practice or researc activity. The Capstone consists of: a formal written manuscript that reflects scholarly research and analysis of a discreet and societally-relevant topic in pubic hear 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 should be viewed as a culminating display of ability, demonstrating that the graduate is prepared to beco Accordingly, the Capstone Project is intended to familiarize students with the rigors of preparing articles for publication 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 12

Introduction To Sociology Credit Hours: 3

This course provides a fundamental introduction to the discipline of sociology. In the broadest terms, sociology is the interactions between social institutions, cultures, groups and individuals. It examines how unequal powe relations organize the social world, and how those unequa power relations shape individual lives. It also focuses upon 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 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 fou anthropology, linguistic anthropology, archaeology, and sociocultural anthropology). The central focus of this course will be on the last of those subdisciplines. 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

## 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 o sustainability in environmental sociology, and policy proposals for achieving sustainable development in Qatar assessing the political, economic, social and coultural force that pose a significant challenge to the development of a more sustainable future. There will be field-based projects

## SOCI 261

Quantitative Method
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.

Perequisite
SOCl 120 OR SOCl 203 OR SOCl 247 OR SOCl 24 SOCl 120 OR

## SOCl 26

Qualitative Method
Qualitative methods provide a second methodological frontier in the social sciences and a key complement o quantitative research. In this course, students will on ethnographic methods. Ethnographic methods, requently utilized by anthropologists, geographers, political scientists, sociologists, international developmen 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 mplementation of an independent research project of their this course.

## Prerequisite:

SOCl 120 OR SOCI 203 OR SOCI 247 OR SOCI 24 R SOCl 1

## SOCI 26

## Badawi Society

This course examines Bedouin society, with a strong focus n 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 the impact of modernization and urbanization upon the Bedouin peoples, hatios setween Bedouin peoples and the state T course includes a significant independent research proje

## SOCI 264

## Family \& Kinship

## Credit Hours: 3

The importance of family and kinship is seemingly a universal aspect of human existence. A quick survey o 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 classic approaches to studying family and kinship. They will develop a deep understanding of the variability of family and kinship across time and across cultures, and
will grapple with the theories that explain that variability While the focus will be on Arabian conceptions of family 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 central to the sociological mission. But throughout historypeople are on the move. In this course students will on the combination of these two traditions. Students will explore the theories developed to explain and understand population growth and change in human society. With that toolkit, students will also explore the theories that explain the increasing movement of people outside the communities, regions, and nations that are their home.

Prerequisite:
SOCI 121 OR SOCI 203 OR SOCI 247 OR SOCI 241 OR SOCI 120

## SOCl 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 concerned with urbanism and urbanization. Specific attention will be given to what those theorists had to say about the Middle Eastern City, as well as the Arabic literature's own tradition of urban studies. Turning to the contemporary era, students will explore the modern and post-modern city, and grapple with the role of globalization including those located here on the Arabian Peninsula.

Prerequisite:
SOCI 120 OR SOCI 247 OR SOCI 241 OR SOCI 121

## SOCI 268

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 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 mortaility in Qatar and around the world. Students 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:
OCl 120 OR SOCI 203 OR SOCI 247 OR SOCI 241 OR SOCI 121

## SOCI 360

## Sociological Theory

his course is an in-depth survey of the enduring conceptual frameworks utilized in the discipline o sociology. Students will consider the primary and undamental questions posed by nineteenth and wentieth-century social analysts, and the theories they 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
SOCl 121 OR SOCI 203 OR SOCI 247 OR SOCI 241 OR SOCI 120

## SOCI 361

## Human Rights

This course explores human rights as a particular and historically contingent set of ideas that is tied to the proje of modernity launched by Rousseau, Locke, Hobbes, and other classic philosophers in the European tradition. Thes Rights, and purveyed to the rest of the world in a colonial post-colonial, and globalized world. This course critically examines the history and development of this set of ideas, investigates alternative conceptions of human rights (with a particular focus on the Islamic and Arabic tradition), and looks at the application of human rights in Qatar and he other Gulf States. It also explores the vast distance between the idealized conception of human rights and heir deployment in practice

Prerequisite:
SOCI 121 OR SOCI 203 OR SOCI 247 OR SOCI 24 OR SOCI 120
socl 362

## omparative Ethnograph

## redit Hours: 3

Ethnography is the craft of Anthropology. In producing 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 those 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
erequisite: SOCI 121 OR

## SOCI 363

## Ethnicity

Ethnicity is typically defined as common identity based upon a presumed or real common heritage, recognized the same time, however, the concept of ethnicity has a long and mercurial history, and the use of this concept has shifted dramatically over time. In this course, students will explore the history of the concept of ethnicity, examine the long association of ethnicity with minority status, and and the concent of race while the tocus of the of ethniciciy 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 explicitly upon the 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 this course is global, students will have the opportunity for the practical application of these ideas in analyses of Qatar.

Prerequisite:
SOCl 121 OR SOCI 203 OR SOCI 247 OR SOCI 241 OR SOCI 120

## Study of Gender

## Credit Hours: 3

This course explores and analyzes the profound importance of gender in the organization of social life 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 intently 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 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
OCI 120 OR SOCI 203 OR SOCI 247 OR SOCI 24 OR SOCI 121

## SOCI 366

redit Hours:
We live in a media saturated world. From text messaging or reality TV , the influence of media cannot be overstated This course will explore the role of the media in the contemporary social, cultural, and political landscape. Arab media in general and Qatari Media in particntar The course also investigates the overarching issue of globalization and the impact of western media on nonwestern cultures. This investigation will include analysis o he proliferation of the Internet, the impact of media upon body image, and the cult of celebrity.
Prerequisite:
SOCl 120 OR SOCI 203 OR SOCI 247 OR SOCI 24 OR SOCI 121

## OCl 36

Comparative Religion
Credit Hours: 3
This course approaches religion as a cultural system which provides a model of reality, a framework for organizing tha reality, and the architecture of the individual's relationship 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 iself by grappling with the vastly different sorts of ideas and experiences that are encompassed by this concept in

Prerequisite:
OCl 120 OR SOCI 203 OR SOCI 247 OR SOCI 24
OR SOCI 121

## SOCl 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 pon 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.
Preaquisite
CI 120 OR SOCl 203 OR SOCI 247 OR SOCI 24 OR SOCI 121

## SOCI 460

## Statistics In The Social Science

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 and examine the role of quantitative research in analyzing social phenomena. This course will include a significant applied focus on contemporary social issues in Qatar and around the world.

## Prerequisite:

SOCI 261 OR SOCI 304 ) OR SOCI 243 OR SOCI 204 R SOCI 341 OR SOCI 340 OR SOCI 342 AND (SOCI SOCl 443 ) OR SOCI 343 OR SOCI 242

## SOCI 461

Honors' Thesi
Credit Hours:
his course is intended for advanced students in the socia sciences, and is a substitute for SOCI 469. This course will guide students through the preparation of their senio esis. Working closely with the faculy advisor assigned 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.

## OCI 462

## Change in Contemp Arab Society

 Credit Hours: 3Arab society, and particularly the petroleum-rich states of the Arabian Peninsula, have undergone significant and
rapid change over the last decades. This course utilizes the sociological and anthropological toolkit to grapple with 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 Peninsula, and the rop of mia in Arab culural Arabia

Prerequisite
SOCI 120 OR SOCl 342 ) ORINTA 306 OR SOCI 340 OR SOCI 341 OR SOCI 304 OR SOCI 243 OR SOCI 204 AND (SOCI 360 OR SOCI 247 ) OR SOCI 241 OR SOCI 203 OR SOCI 121

## SOCI 463

## Labor \& Class-P

This course explores Khaleeji society through the canonical frameworks of labor, class and social differentiation. From a beginning point grounded in classical social theory, students will use these tools to critically explore the concept of a "Petroleum Society" and ascertain its utility in explaining the social, cultural This course includes specific focus on the development experiences of the Gulf, the population structure and workforce in the Gulf states, migration and labor, and an exploration of the cultural and social factors shaping work expectations among Gulf locals.
Prerequisite:
SOCI 360 OR SOCI 340 OR SOCI 341 OR SOCI 30 SOCI 360 OR SOCI 340 OR SOCI 341 OR

## SOCI 464

Social Policy \&
Credit Hours: 3
The social sciences were originally conceived as a tool in the project of modernity, a tool that might help minimize or eradicate social problems or, from another angle, help he state better govern its subjects. In the contemporary era, the social sciences continue to interface with the governance. This course explores academic perspectives on social policy and planning, with a strong focus on applied social studies of Qatar and nearby nations. Students will explore how social scientists have used the
analytical, methodological, and conceptual toolkit they'v eveloped over time to address the problems in human society and, more specifically, in Gulf Society.
rerequisite
SOCI 360 OR SOCI 340 OR SOCI 341 OR SOCI 304 OR SOCI 342 OR SOCI 204 OR SOCI 243

## SOCI 465

## ndustrial Organization \& Work

redit Hours: 3
his course begins with an exploration of classic and odern theories of work. Students will use these meworks to explore the social organization of work and rk in the contemporary era, and the
 dustry. Students will also familiarize themselves with international organizations that monitor and analyze work in the contemporary world. In the second half of the
 hureaucracy and management.
rerequisite:
soCl 120 OR SOCI 203 OR SOCI 247 OR SOCI 241 OR SOCI 121

## SOCI 466

## ocial, Religious, and Political Movements

 redit Hours: 3his course expands the focus of political sociology to iclude an analysis of the social and religious realm. political in the unequal distribution of power in human society. After reviewing the classic theories of politic sociology, students in this course will use those tools
examine social, religious, and political movements in Arabian society and in other parts of the world. Case fudies will focus on the civil rights movement in the Unite f the world the Islamic Brotherhood in Egypt and the potential for labor movements in the Gulf States.

## Prerequisite:

SOCI 120 OR SOCI 203 OR SOCI 247 OR SOCI 24 OR SOCI 121

## SOCI 467

## Globalization

is course examines ways in which globalization onstitutes complex economic, social, cultural and political trends around the world. In addition, it provides an overview of the major social scientific theoretical
perspectives applicable to understanding the process of globalization and its connection to economic nderdevelopment. The theoretical distinctions and the ebate between mode warlion heorists on the one hand are emphasized. Intrinsic to the above is an elucidation of the development of the world capitalist system and its uture in a rapidly changing global context.

## SOCI 469

## Research Projec

redit Hours: 3
This course is intended to guide students through the preparation of their senior thesis. Working closely with the 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 indings in a formal presentation.
Prerequisite:
SOCl 261 OR SOCI 401) AND (SOCI 460 OR SOCI 34 SOCI 261 OR SOCI 401 ) AND (SOCI 460 OR SOCI 3 OR SOCl 341 OR SOCl 340 OR SOCl 204 OR SOCI SOCI 344 AND (SOCI 262 OR SOCI 443 ) OR SOCI 343 OR SOCI 242

## SOCI 470

## independent Study

Credit Hours: 3
An independent study course provides for study under he supervision of a faculty member of a specific topic no interest on the part of the student. The topic must be agreed upon with a faculty member and described in a proposal at the time of registration.

## SOCI 471

## Special Topics

his seminar involves an in-depth examination of selected opics in sociology or anthropology. A different topic is selected by faculty each time that it is offered. Relevan ypically responsible for research papers and presentation under close faculty supervision. This course may be epeated for credit

## sowo 101

## inroduction to Social Work

mes the history and philosophy of social welfare, with an emphasis on the social work profession: its mission, philosophy, ethics, values, and diverse fields
of intervention with various client populations served in a range of social welfare settings.

## sowo 200

## Social Work an Credit Hours:

This introductory course is designed to provide students with a basic understanding of the law, legal processes, and legal systems as they relate to social work practice as well as introduce students to the field of forensic social work: the application of social work questions and issues relating
to law and legal systems, both criminal and civil

## sowo 301

Medical Social Work
Credit Hours: 3
This course examines the practice of medical social work in assisting individuals and families in need of medical care, including emotional support that enable them to overcome the psychosocial problems pertaining to illness patients to access other resources and assistance that mitigates illnesses and enhances health.

## SOWO 302

## Mental Health and Social Work

Credit Hours: 3
This course examines the nature and presenting characteristics of the major forms of mental and emotional maladjustments that may contribute to problems in socia specific categories of dysfunctional behavior, use of standard criteria, and treatments for dysfunctional behavio from a bio psychosocial perspective.

## sowo 303

## School Social W

Credit Hours: 3
This course addresses a specialized area of practice that examines the unique knowledge and skills needed to practice within a school system that engages students,
families, teachers, the school, and the community. Course explores the policies, practices, historical educational developments and legislative trends affecting students' well-being. School-community relationships are examined as well as the impact of societal attitudes upon schools.

## sowo 311

## Social and Cult

redit Hours:
This course emphasizes social-economic and nvironmental conditions, such as socio-cultural and poifical assumptions of race, gender, and ethnicity. Also emphasized is the oppressed and vulnerable populations'
adaptive capabilities and strengths to function under difficult circumstances. Issues of values, ethics, diversity, ocial and economic justice and infused throughout the course

Prerequisite
SOWO 101

## sowo 320

Human Behavior and Social Environment I Credit Hours: 3
As the first of the two human behavior and the social environment courses, this course introduces the ecologica model. Focus is on the individual life-span approach to human development and reciprocal interactions among individuals, families, and small groups. Issues of values, ethics, diversity, social and economic justice and populations at risk are infused throughout the course.

## Prerequisite

SOWO 101

## SOWO 321

Human Behavior and Social Environment II Credit Hours: 3
As the second of two human behavior and the social environment courses, this course focuses on the reciprocal elationship between individuals and large groups, examines also the ways in which social systems promote or deter people in maintaining or achieving health and well-being. Issues of values, ethics, diversity, social and economic justice and populations at risk are infused throughout the course.

## Prerequisite

SOWO 320

## SOWO 330

Social Welfare Policy and Services I Credit Hours: 3
The first of two social welfare policy and services courses, this course examines the historical roots, mission, and philosophy of social welfare as an institution that responds to human needs and social problems, as well as the socia economic, and political forces that shape social welfare, he poitical processes for influencing policy formulatio reviewed. Policy analysis frameworks are introduced.

Prerequisite
SOWO 101
sowo 350
cial Work Generalist Practice
Credit Hours: 3
As the first of three generalist practice courses, this course introduces the generalist practice problem solving model introduces the generalist practice problem solving model
that focuses on the strengths, capacities, and resources o large groups, organizations, and communities in relation to the broader environments. Students broaden their skills in implementing the generalist practice model. Content and skills include the following: assessing large systems using empirically based theory; applying empirical knowledge advocating and providing leadership for policies and
services. Content on values, ethics, diversity, social and economic justice and populations at risk are infused throughout the course.

## Prerequisite <br> SOWO 101

## sowo 360

Social Work Re
The first of two social work research courses, this course introduces various social work research methods and techniques. The basic problem-solving process is presented and related to other research methods. Students will develop beginning skills in research and evaluation methods through the use of practical studies and to find answers to research questions

## rerequisite:

SOWO 101 OR STAT 101 AND STAT 153

## sowo 361

Society \& Human Rights
Credit Hours:
The course discusses social work between the concept universality of human rights and the concept of cultural elativism. The course tries to answer to what extent the cultural relativism regarding the social issues dealt with in the Universal Declaration of Human Right. In general the course tries to answer the following question: how Social Work can utilize human rights documents as they are in United Nations in dealing with the social issues?

## sowo 370

## OWO 370 <br> Credit Hours: Family Practice \& Services

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

Credit Hours: 3
As the second of the two social welfare policy and service courses, this course reviews the theory, knowledge 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 rameworks are examined.

## Prerequisite

## SOWO 410

## Social Work Research Methods II

## redit Hours: 3

he second of the two social work research courses, his course gives students the opportunity to integrate raditional research methods and technology into practice hat is relevant to their interest. Students will be involved in anditative and qualitative social work research.

Prerequisite
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 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 cours expands further the generalist practice model by
introducing theory, knowledge, research, values and kills for social work practice with individuals and groups. Content and skills include developing, managing, and erminating groups; understanding group dynamics and processes; facilitating group communication; and, utilizing group leadership. Content on values, ethics, diversity, ocial and economic justice and populations at risk are fused throughout the course

Prerequisite:
SOWO 350

## SOWO 440

Integrative Semin
Credit Hours: 3
A capstone seminar the enables students to integrate the theory, knowledge, values, skills, ethics, and cultur competence of generalist social work practice. Taken provides students the ocpal Work Practicum, this course ractice 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

## requiste

SOWO 321 AND SOWO 430 AND SOWO 400

## SOWO 441

## cial Work Practic

his is a 400 plus clock hours practicum placement hat builds on the competencies gained in the social work courses. The practicum is educationally directed, coordinated, and monitored for all students. Structured practice experiences, integrate knowledge acquired in the lassroom, and expand knowledge beyond the scope of he practicum setting. The practicum is taken concurrently with the Integrative Seminar

OWO 321 AND Sowo 430

## SPAN 100

Basic Spanish
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 comprehend Spanish as they hear and read authentic anguage relating to familiar topics. To boost their listening authentic audio-visual materials in the language lab.

## SPAN 101 <br> \section*{Spanish 1}

## Credit Hours: 3

This course is designed to introduce the Spanish anguage to beginning students, to develop oral and written skills for both comprehension and expression Language skills to be emphasized include: understanding 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 Span

redit Hours
his 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 Spanishspeaking 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 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 can be expected to display appropriate awareness of 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 increa students' proficiency in the language and broaden iteratures. It will help student to develop vocabulary, improve pronunciation, learn new idiomatic expression 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.

SPAN 110
SPAN 200
Language, Culture and Society
redit Hours: 3
This course offers a study of the history of Spanishintellectual, and artistic aspects of Spanish civiilization 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 elevision news. Students will learn to demonstrate knowledge of the chronology of Spanish civilization and entify the major intellectual and artistic movements, th defining characteristics and contexts. Students will also and authors in the Spanish literary canon and taught to lace literature in a meaningful cultural and historical context. Students will be taught how to analyze and make nnections between events, movements, and ideas for he time periods covered in this course.

## SPAN 20

## elit

This course is a continuation of 101. It is designed to mprove different aspects of language and writing skills. aims to improve students' conversational skills; to provide variety of readings for written comprehension; to develo a good grammar background; and to improve listening skills. The course also introduces the students to aspects of Spanish culture.

## SPAN 210

panish for Oral Communication I

## Spanish for Ora redit Hours: 3

This course develops students' speaking ability in Spanish by providing opportunities for conversation practice. The main emphasis will be oral practice but attention will also be paid to grammar, written production and presentation as well as discussion of various topics of general interest Spanish. Students wirl earn and practice Spanish for 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

## SPAN 210

Spanish for Oral Communication
his course develops studens speaking abiity in Spanis by providing opportunities for conversation practice. The main emphasis will be oral practice but attention will also e paid to grammar, written production and presentation 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 21

## Spanish for Oral Communication

## Credit Hours: 3

The course focuses on developing practical vocabular diomatic expressions, professional terminology an anguage 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 tou Spanish-speak and cureaucracy and interanish Spanish.

## Prerequisite

SPAN 210

## PAN 221

panish Composition
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 einforces the language skills presented in Intermediate written exercises, an introduction to composition, lexica
enrichment, and spoken skills. Comprehension and speaking are developed through the use of cinema, By the end of the course students will be able to create elaborated utterances in Spanish and group them into paragraphs and narratives.

## SPAN 110

## SPAN 222

## omposi

## 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 a vassessed of writing situations (for example, diaries, ranscriptions narrations, letters and mails) as war their fluency of usage in the written language. The course also focuses on the distinction between spoken and written styles.

Prequisite
SPAN 221

## SPAN 310

Spanish Phonetics
redit Hours: 3
his course provides an introduction to the sounds of Spanish, paying close attention to their place and manner farticulation (phonetics) as well as how they pattern with respect to each other and as influenced by morphologica and syntactic factors (phonology). It teaches students baic phond ruse 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 sound systems.

## Perequisite:

SPAN 100

## SPAN 31

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 role of Spain on the international scene and include study of articles drawn from the Spanish press, recent will learn to demonstrate knowledge of the chronology of Spanish civilization and identify the major intellectua 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 meaningfu cultural and historical context. Students will be taught how to analyze and make connections between events, course.

Prerequisite
SPAN 110

## SPAN 321

## Business Spanish

Credit Hours: 3
his course focuses on introducing functional language 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 spoken materials, as well as teaching them herus will sudy the con in and environment, and learn key technical terms and us idiomatic expressions

Prerequisite:
SPAN 110

## SPED 301

## Foundations of Credit Hours: 3

his Course provides broad knowledge and skills in special education covering: models, theories, philosophies, history, legal provisions, ethical and professional commitment, assessment, identification procedures, instructional strategies, and using the individualized education program (IEP) for students with disabilities.

## SPED 302

## Survey of Exc

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

\section*{SPED 303

\section*{ED 303

## ED 303 <br> redit Hours:

This course focuses on identifying, recording, evaluating, and changing social and academic behaviors of specia and diverse populations. This course presents best practices in classroom and behavior management om organizing time, materials, and classroom space o strategies for managing individual and large group arrangements for classrooms in general and special education.

## SPED 304

## Collaboration

redit Hours:
is course provides candidates with knowledge and skills coliaboration and consultation in special education of parents, family characteristics, communication and consultations skills, and resources in special education The course emphasizes school visitation, family interview, and developing skills necessary to pinpoint problems acing special persons with disabilities and their familie when interacting with schools and community resources.

## SPED 305

## clusive Practices through Special Education

 edit Hours: 3his 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 h making the general education classroom more inclusive aln students. Topics covered incluct challes odels, response to intervention, and the use of the ndividualized education program (IEP) to support students' meaningful participation in general education.

## SPED 306

## ducational Psychology for Special Educator

 redit Hours: 3his 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 hild and adolescent development, learning, motivation, the exceptional learne

## SPED 307

## ive Technolo

An introductory course which is designed for special education students. The primary goal of the course is o help prospective teachers learn about the basics general applied to exceptional learners. It includes hardware such as augmentative communication devices and adaptive tools and software designed to support the and adaptive tools and software designed to support the larger community setting.

## SPED 308

## Promotion

 Credit Hours: 3This course focuses on the assessment and educational and community support of children and youth with menta health disorders across different age spans, including heories and models of mental heatth adjustment and 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

hfants, Toddlers, and Young Children with Disabilitie Credit Hours: 3
This survey course examines typical and atypical child development from conception through the early years; all developmental domains, cognitive, social/emotional, will draw on theory and relevant clinical and empirical iterature in the examination of the development of infants and children with sensory, motor, cognitive and/or affective disabilities.

## SPED 411

## Assessment

 Credit Hours: 3This 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 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

## ducation

Tredit Hours: 3
This course covers methods of teaching young children with physical, social, emotional and/or cognitive disabilities and supporting their families within home, educational, and community settings. The course will provide an overview of current educational models and strategies specificall addressing curriculum development, instructional planning, and assessment as they relate to knowledge about learning processes, motivation, communication and classroom management.

## SPED 413

Planning and Programming in Early Childhood Specia Education

## Credit Hours: 3

The purpose of this course is to provide knowledge and skills necessary to implement family guided, relationshi based intervention for families with young children with
disabilities and children at risk for disability. Family guid intervention suggests that families are able to determine child and 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.

## \section*{SPED 414} <br> SPED 414 <br> Credit Hours: 3 Language and Communication

This course covers basic communication principles and anatomy as well as more complex learning and language deficits. Students will learn how language is acquired, used and the effects on communication with various types of speech and language disorders. The connection between early childhood curriculum and language learning and how that applies to supporting th
developmental need 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 is structured to engage students in developing and implementing 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 ways of accommodating and supporting children with motor disabilities. The course is structure 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 information regarding characteristics of individuals with as well as legal policies in meeting students' needs and providing services.

## 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 Current issues in assessmiculum based measurement. Current issues in assessment such as assessing students (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: $\mathbf{3}$
The purpose of this course is to prepare pre-service special educators 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, 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
his introductory course addresses strategies for the development, implementation, and monitoring of
Individualized Education Programs (IEPs) and related instructional planning for $\mathrm{P}-12$ 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 using the general education curriculum to develop appropriate IEPs and lesson plans for instruction.

## SPED 424

## Prevention and Early Intervening in Schools

 Credit Hours: 3This course will provide students with a working knowledg 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 participate in field experiences throughout the semester

## SPED 425

Special Ed

## Credit Hours: 3

in working as provides the knowledge and skills required working as part of a multidisciplinary team to provide disabilities in general education settings. Assessment and isabilities in general education settings. Assessment and standards-based education which meets students' needs.

## SPED 426

Interventions for Behavior Problems in Schoo

## Settings <br> 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 disab builds upon the information students have mastered in the characteristics, assessment and general procedures courses.

## SPED 427

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 programs to ensure that they are appropriate to the needs
of adolescents with disabilities. Content includes coverage of adolescents with disabilitites. Content includes coverage
of remedial and compensatory program models, transition programming, career and vocational education, postsecondary educational options, recreation and leisure
independent living, and self-determination and advocacy.

## SPED 430

## tudents with <br> Students with A

ntroduction 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 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

## Dredit Hours: 3

Credit Hours: 3
An introduction to the major physical, health, medical, Visual, and auditory conditions that may adversely affect 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.

\section*{SPED 432

\section*{SPED 432

## SPED 432 <br> Assessment Practices for Severe and Profound

## 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, socia emotional, functional, adaptive behavior, and other ona . Use of standarized mesus. based and curriculum-based measures.

## SPED 433

Curriculum and Methods for Severe and Profound Disabilities
Credit Hours: 3
Credit Hours: 3
Models of curriculum and instructional approaches that balance standards-based education and individualized severe and profound disabilities and other low incidence disability conditions across a range of educational setting 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:
Application of assessment data, curricular models, and instructional methods to develop individualized education 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 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, 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 and skills needed to assess the potential AAC user, make 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 interns' authentic concerns and interests, from the university supervisor's classroom observations, and from mentor teacher suggestions. Participants enrolied in this course will assume the responsibilities of program. This course requires a significant number of field program.

## SPED 482

Student Teaching: School-Based Special Education

Credit Hours: 9
This course will provide ongoing mentoring and reflection during a semester-long Student Teaching experience with
students with disabilities in school-based settings. 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 esponsibilities 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: Severe 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 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
redit Hours: 3
he course focuses on the knowledge and understanding of those games which can look back to a long tradition provides a selection of new and innovative games which are internationally well received.

## SPSC 200

Theory and Practice Individual Sports I redit Hours: 3
The course introduces students to a typical example for individual sports, selected amongst, e.g., athletics,
swimming, judo, skateboarding, inline-skating etc. Throug 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 III). The students will examine a range of issues that currently influence teaching, learning, and promotion of individual sports by this selected example with the necessities of acquiring coaching and judging competencies in this individual sport.

## SPSC 201

Theory and Practice (Team Sports) I Credit Hours: 3
he courses introduce the students to an example of a eam sport. Through practical experience and theoretica reflection the students should develop their knowledge, skils and understanaing of to apply this in the education and promotion context. The students will examine a range of issues that currently influence teaching, learning and promotion of such a team sport. In addition, they are acquainted with the necessities of acquiring coaching and judging competencies.

## 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, ed 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 romotion of such a team sport In addition, they are romotion of such a team sport. In addition, they are judging competencies by learning about similarities and differences amongst various team sports.

## Prerequisite: SPSC 201

## SPSC 203

Exercise Physiology
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 aduits to include cardiovascular, respiratory, muscle and neurological control of movement, hormonal and basic biochemistry of exercise in hypobaric and hyperbaric envirition, control and maintenance of body weight, sex differences, cardiovascular disease, metabolic disease and physical activity.

## Prerequisite

BIOL 101

## SPSC 204

## Theory and Pr

redit Hours: 3
The course introduces students to a further individual sport, to be selected amongst, e.g., athletics, swimming, selected should provide complimentary experiences, e.g.
process orientanion ge gymnastics or resul onentation ike athletics. Through practical experience and theoretic reflection the trainees should develop their knowledge, 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 udging competencies in this selected example of an ndividual sport.

## rerequisite

SPSC 200

## Rescearch Me <br> Research Methods in Exercise Science and Health

Quantitative and qualitative research approaches to
disciplinary areas in Sport Science. Topics include methods and design, measurement issues, analysis and interpretation of literature and analytical procedures used in research

Prerequisite:
MATH 103 OR MATH 101 OR MATH 119

## SPSC 209

## Biomechanic

## 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 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 Credit Hours: 3
The course introduces to general and specific theoretical matters of training and coaching. To understand facts and concepts of sports physiological/biomechanical functions of human body during exercise and training to include and immunological responses to training Principles of ow 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. Th
course provides trainees with knowledge on aspects of
planning, implementation and control of training units and focuses also on diagnostic methods of how to measure performance.

Prerequisite

## SPSC 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 o 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 303

## PSC 303

Exercise \& Met
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 <br> BIOM 215

## SPSC 305

Sport Marketin
Credit Hours:
Emotions and identification in sport demand and consequences for strategic marketing and the marketing mix The role of time in sports consumption and consequences for strategic marketing and the marketing mix Socio-cultural context of sport Sport Sponsoring
Conclusions of the sport marketing specialties for management (planning organizing staffing, directing anagement (planning, organizing, staffing, directing, controlling).

## SPSC 306

## Motor Learning <br> Credit Hours:

This course provides basic knowledge of the development and learning processes. It covers current theories and motor skill acquisition and pehavior in general, and in particular. This course deals with learning theories, information processing, motor control and motor skill learning and emphasizes why and how children and adults

## Prequisite

SPSC 203

## SPSC 307

## Exercise Physio

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 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 <br> SPSC 203

## SPSC 308

## Sport Psycholog

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-behaviora echniques, self-efficacy, self-concept, self-esteem, alth benefits of sport participation.

Prerequisite
PSYC 205

## SPSC 309

## Exercise and Agin

Personal and social aspects of aging. Typical diseases and their consequences for physical activity and sport. Basic information on the psychology of old age. Aims and asks 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 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 Knowledge of physiological, motor and biomechanical principles as they apply to simple and complex movement in sports that directly involve preparation in both inand out-of-season training, and are based on curren knowledge of training science, including knowledge and execution of training principles of micro, macro and meso-cycles and generally accepted coaching of athletes during training and application of periodization. The cours problems associated with growth, maturation and issues on aging.

## Prerequisite SPSC 210

## SPC 311

## First Aid \& CP

Credit Hours:
Introduction and practice in immediate and temporary care of injuries and sudden illness, including administration of CPR. Students seeking CPR certification may apply in mall additional fee

## SPSC 318

## Exercise Psycholog

## redit 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 onsideration of social- psychological

## Prerequisite

SPSC 308

## SPSC 349

evelopmental
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 the need to support a healthy development across the life span by exercise and sports.

## SPSC 39

hysical Education in Schools

## Credit Hours: 4

The course deals with the organizational framework elevant pedagogical concepts and methodological trateg for physical education.

## SPSC 400 <br> sycho-Social Aspect of Games

nd 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 spo and/or social interaction.

## Prerequisite

## SPSC 401

## Pr

## redit Hours: 3

This course will focus on the scientific basis of
performance analysis and assessment. Central to conditioning in the off-season, pre-season, and in-season Human Performance Laboratory equipment will be used o measure, determine and interpret the results of various performance tests. An introduction and utilization of appropriate equipment for cardiovascular conditioning an esistance training will be examined.

## Prerequisite

## SPSC 403

Exercise, Obesity \& Diabete
redit Hours: 3
Etiology of obesity, genetic, and environmental variations Etiology of diabetes, genetic, and environmental factors. and theory of obesity and diabetes, knowledge of
physiology and pathophysiology. Application of physic activity with regard to obesity, and the role of exercise in management of obesity. Application of physical activity with regard to diabetes, and the role of exercise in the reatment of diabetes. Theoretical, practical, laboratory experiences, to calculate energy intake and energy expenditure.

Prerequisite
SPSC 203
SPSC 404
Exercise \& Heart Diseas

## Credit Hours:

Underlying and potential causes of developing heart disease and/or hypertension Thorough knowledge of physiology and pathophysiology. Appropriate ex
prescription for individuals with heart dieses or hypertension Parameters of exercise prescription 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 40

## Testing \& Exer Credit Hours: 3

Strain and load-bearing capacity (maximum resilience) ff human hard and soft tissues in sport activities Epidemiological aspects of sport injuries with special focus on typical injury mechanisms Preventive and rehabilitary interventions. Causes of motor dysfunction (disorder) and their neuro-physiological characterization. Epidemiological aspects of bad posture and damaged posture with special preventive effect of physical activity and sport and the aspect of the functionality of the human movement apparatus. Test batteries to analyze neuromuscular deficits (maximum strength tests, muscle function tests), preventive training methods (training of strength, coordination and flexibility) and movement strategies to prevent / improve deficits or overstrain; special programs for low back training.

Prerequisite:
SPSC 206

## SPSC 406

Concepts of Fitness \& Nutrition
Credit Hours: 3
Introduction to basic health and fitness concepts and related topics, including CPR. Attention will be given to the development of individual fitness programs emphasizing
such topics as aerobic and anaerobic exercises, nutrition, diet, stress management, and assessment methods and procedures. The course is a combination of lecture and laboratory activity. Examines the biological, social, and behavioral aspects of exercise and physical activity in
older adults in order to develop programs for older adults oo improve and/or maintain functional status. Methods of measuring physical activity and assessing functional status
for older adults are also considered and practiced. The course provides a foundation for working with older adults in programs and sites for exercise and/or physical activity.

## Prerequisite

SPSC 407

## Sport Govern <br> redit Hours: 3

Resources economics in sport (role and substitution
effects of fundraising, volunteers and subsidies) and their consequences for sport management Economic aspects of sport management Economic impact of sport.

## rerequisite

SPSC 305

## SPSC 409 <br> Sport Marketing and Management II

 Credit Hours: 3Integrity of sport Strategic and evaluation concepts in spor ponsoring Communication and brand development in sport business. Event marketing in sport Quality in spo Conclusions of the sport marketing specialties for sport management (planning, organizing, staffing, directing, controlling)

Prerequisite

## SPSC 410

## Sport Governance and Economics I

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 toperates. 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
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 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 475

## Teaching PE in Secondary Schls

Credit Hours: 3
This course aims to develop teacher candidates' capabilities as a teacher of all activities in secondary school. The course also focuses on teacher candidates' 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 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 spor science project. Such project gives the students the
chance to experience the whole life cycle of development, design as win experiencing effectively the realization of a sport science project.

## Prerequisite: SPSC 206

## SPSC 499 <br> Snternship

## Credit Hours: 6

his 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 week in a secondary or high school. This internship provides field-based experience in selected areas of physical
education in Qatari or international school settings.

Students teaching includes to perform content knowledge pedagogical knowledge and disposition as their fina opportunity.

SPSC 449 AND EDEC 411 AND SPSC 475

## STAT 101

## Statistics I

Credit Hours: 3
Statistics I covers Basic concepts, Population. Types of data, Sampling methods, Tables and graphs. Descriptive
Statistics, Basic probability concepts, Random experiment. Sample space, Rules of probability. Counting techniques. Conditional probability. Independence, Discrete and continuous random variables. Sampling distributions, The Student-t distribution, F-distribution and Chi-Square distribution, Point estimation. Confidence intervals for a single population, Testing hypotheses for a single population. For the lab one Statistical software like SPSS, Minitab or Excel are used.

Prerequisite:
( ENGL 040 OR ENGL C002 OR Total for Integrated Core 400) AND (ENGL 041 OR ENGL R002 OR ESL Reading Skills 100) AND (ENGL 042 OR ENGL W002 OR APL for Writing Workshop 225) ) OR (Total for Integrated Core 400 AND ESL Reading Skills 100 AND ESL Language Use 100) OR TOEFL_Inst Testing Prog 500 OR TOEFL 73 OR 004 OR ENGL 111 OR ENGL 250 OR ENGL 201 OR ENGL 202

## STAT 102

## Statistics II

Credit Hours: 3
Chi-Square Procedures, The Chi-square distribution Chi-square goodness of fit test. Contingency tables Association. Chi-square test for independence. The comparisons. The randomized block design. The two factor actorial design, Simple regression equation. Inference about the regression quantities. Nonparametric Statistics, The sign test and Wilcoxon signed rank test, the Wilcoxon rank sum test. The Kruskal-Wallis test. The Friedman test. The Spearman correlation coefficient. Statistical software like Minitab and Excel are used.

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; Measure 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
Credit Hours: 3
Basic Concepts and Definitions of Statistics Terminology Organization and Graphical Presentation of Statistical Data, Measures of Central Tendency and Dispersion, iscrete 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,
rerequisite
STAT 102

## STAT 156

Statistics-Pharmacy
Credit Hours: 3
Statistical Concepts; Organizing and Drawing Conclusion rom Data; Basic Probability; Binomial, Normal and and Multiple Regression; One and Two-Way Analysis of Variance; Survey Design

## STAT 211

## Introduction to Probability

Credit Hours: 3
Random experiment. Sample spaces, Events. Axioms and rules of probability. Equally likely sample spaces. variables. Expected values. Moment generating function. Probability generating function, Probability distributions, uniform, Bernoulli, binomial, geometric, negative binomial, Poisson and hypergeometric. exponential, gamma, beta and normal. Discrete and continuous bivariate random variables. Joint, Marginal and conditional distributions.

Prerequisite:
(STAT 101 AND MATH 102 OR STAT 153)

## STAT 220

Business Statistics
Credit Hours: 3
This course introduces descriptive graphical techniques
and numerical measures; probability distributions and their application to stock markets, production reliability 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 11 or ENGL 202 or ENGL 004 or ENGL 040 or ENGL F073 or ENGL F022 or TOEFL IBT 061 or TOEFL 500 or IELTS and ESL Reading Skills 100 and ESL Language Use 100)

## STAT 22

## Mathematical Statistics I

Credit Hours: 3
The Multinomial and multivariate normal distributions. Functions of random variables. Transformation techniques Sampling Distributions, the t , the 2, and the F distributions. he distniout of a single order staict. The joint distribution of two order statistics. Distributions of function d order statistics. Limit Theorems, Convergence in numbers. Limiting distributions. The Central limit theorem.

Prerequisite
STAT 211 AND MATH 251 OR STAT 251

## STAT 222

Business Statistics II
Credit Hours: 3
his course examines multiple regression analysis with emphasis on model building in business and economic 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 o discriminate analysis
marketing research.

Prerequisite
STAT 220 OR STAT 155

## STAT 231

## Applied Regression Analysi

redit Hours: 3
Simple Linear Regression; Residual Analysis; Autocorrelation; Multiple Regression; Parameter Polynomial Regression; Indicator Variables; Multicollinearity; Outliers and Influential Observation. Statistical software like Minitab, SPSS and R are used
-
STAT 102 OR STAT 251 AND STAT 211

## STAT 241

## Biostatistics

Methods of Sampling in Medical Studies; Summarizing and Presenting Medical Data; Demographic Statistics; Surviva
Analysis; Analysis of Cross Tabulation; Inference for
Means; Parametric and Non-Parametric with applications o medical data; Multiple Linear, Logistic, Poisson and exterintion Statical solware like Minitab and Ex are used.

Perequisite:
STAT 102 OR STAT 151

## STAT 242

Demography
Basic Concepts, Meaning of population Demographic ates Period rates. Person years. Growth rate The oncept of cohort. The crude death rate. Age- specific death rates. The Lexis diagram. Mortality rates.
Single-failure indices. The standardized death rate. The standardized mortality ratio. Life Tables, Multiple Decrement Life Tables, Fertility and Reproduction, Modeling Age Patterns.

## Prerequisite:

STAT 102

## STAT 312

Stochastic Processes
Credit Hours: 3
Elements of Stochastic Processes; Discrete Time Markov Chains; Random Walks; Branching Processes; Poisson rocesses; Birth and Death Processes; Queuing System Brownian motion. Applications to stochastic financial modeling.

## Prerequisite:

(STAT 211 OR STAT 251) AND MATH 251)

## STAT 322

Mathematical
Credit Hours:
onsistency, Sufficiency, the exponential family of istributions. Completeness of a family of distributions Theory of Point Estimation, Criteria for judging point Unbiasedness, Rao-Blackwell Theorem. Uniformly
minimum variance unbiased estimation. Lower bound of the variance of unbiased estimators. Information. Moments method. Least squares method Comparisons between the different methods. Interval estimation, Pivota quantities. A General method for confidence intervals.
Large sample confidence interval. Test of hypotheses,
most powerful test. Neyman-Pearson lemma. Uniformly most powerful test. Uniformly most powerful unbiased tes ikelihood ratio test. Sequential tests. Large sample tests.

## Prerequisite

STAT 221
STAT 332

## Design of Experiment

## Credit Hours: 3

Principles of Experimental Design; Completely Randomized designs; Randomized Complete Block designs; Latin Square designs; Incomplete Block Designs Factorial Experiments; Split Plot; Analysis of Covariance

Prerequisite
STAT 102 OR STAT 251 AND STAT 211

## STAT 333

## Time Series

Credit Hours:
his course discusses the analysis of time series data and their use in prediction and forecasting. The course presents various methods including time series regression, The emphasize 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
Actuarial models, classifying and creating distributions. Frequency and severity with coverage models, deductibles, policy limits and coinsurance. Aggregate loss models, compound models, computing aggregate claims distributions, comparison between the various computing

Prerequisite:
STAT 102 OR STAT 251 AND STAT 211

## STAT 34

Applied Survival Analysis

## Credit Hours: 3

Censored data, types of censoring, examples of surviva data analysis, the survival function, the hazard function
stimator of the survival function comparing two survival distributions (Mantel-Haenszel test), Parametric Survival Distributions and Inference, Goodness of Fit for Surviva, arametric 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 Contro
Analysis of Control Charts for Variables and Attributes;
Histogram Analysis; Process Capability: Standard Acceptance Sampling Plans; Process Reliability. Statistica Acceptance Sampling Plans; Process Rel
rerequisite:
STAT 102 OR STAT 251 AND STAT 211

## STAT 361

Sampling Method
redit Hours: 3
Principles of sampling; questionnaire Design; Simpla andom sampling; Stratified and Cluster Sampling; Mutio and Regression estimation; Systematic Sampling, the sample Size; Non-response and Non-sampling Errors Adjustment.

## Prerequisite

Prerequisite: STAT 251 AND STAT 211

## STAT 37

## TAT 371 .

## Credit Hours: 3

Detailed use and full exploitation of Statistical Packages uch 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 of statistical packages.

Prerequisite:
STAT 231 OR STAT 258

## STAT 372

## tatistical Simulatio

## Credit Hours: 3

Generating of Discrete and Continuous Random Variable
Variance Reduction Techniques; Model Design ather simulation with Applications Including Queuing Model. Usinglications; Verification and Validation of the R.

## Prerequisite:

## STAT 211 OR STAT 251

## STAT 38

## Categorical

## Credit Hours: 3

ontingency Tables; Measures of Association; Exact and Asymptotic methods for $2 \times 2$ and rxc Contingency Tables; Probit and Logistic Regression Models for Binary Data; Loglinear Models for Multiway Contingency Tables.
Statistical software like Minitab, SPSS and R are used.

Prerequisite
STAT 231

## STAT 38

## Non-parametric Methods

Credit Hours: 3
Basic Concepts of Non-Parametric Methods; Testing and Estimation for one, Two, and Several sample Problems; dependent and Paired; Location and Dispersion Problems; Goodness of Fit Tests; Tests for Trends and Efficiency of Non-Parametric Methods. Statistical software like Minitab, SPSS and R are used.

Prerequisite
STAT 221

## STAT 434

## Generalized L

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, Begression, Poisson regression and Loglinear models. Statistical software like Minitab, SPSS and R are used.

## Prerequisite:

## STAT 442

## Actuarial Statistics

redit Hours: 3
Construction of Empirical Models, estimation for grouped and modified data, kernel density estimators. Parametric Statistical methods, estimation and confidence intervals actuarial models. Model Selection, graphical methods, goodness of fit techniques. Credibility th
actuarial models, Case study examples.

Prerequisite
STAT 341

## STAT 445

## eliability and Life Testing

Credit Hours: 3
Reliability Concepts; Component and System Reliability Notions of Aging; Lifetime Distributions and Hazard unctions; Types of Censoring; Nonparametric stimation of Reliability Function; Kaplan-Meier and Nelson Estimators; Parametric Inference Procedures for Exponential Weibull and Extreme Value Distributions; Proportional Hazards Regression Model; Accelerated Life esting; Stress-Strength Models. Statistical software like Minitab, SPSS and R are used.

## Prequisite

STAT 322

## STAT 464

nvironmental
dit Hours: 3
tochastic processes in the Environment. Fitting probability models to Environmental data. Tail Exponential method. Poisson Processes and their application. Negativ binomial model (Contagion and True Models). Capture ecapture Method, Distance Sampling, Composite dative cluster sampling and adaptive allocation methods.

## Prerequisite

STAT 312 OR STAT 452 ) AND (STAT 361 OR STAT 357

## TTAT 48

## ariate An

redit 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

## ftware like Minitab, SPSS and R are used

STAT 322 AND MATH 231

## STAT 48

## Bayesian Statistics

Credit Hours:
Nature of Bayesian Statistics, Prior and posterior distributions. Noninformative priors. Jeffereys rule. Conjugate priors. Bayesian Inference, Quadratic loss function and Bayes estimators, Highest posterior density
intervals, Bayesian tests of hypothesis. Bayesian methods in the normal and some other distributions. Approximate Bayesian Methods, Asymptotic approximations of the Bayes estimator, The Lindley and Tierney-Kadane methods, Markov chain Monte Carlo methods and the Gibbs sampler.
Prerequisite
STAT 322

## STAT 497

## Independent St

Designed for students who wish to pursue further reading n a particular topic of current interest in Statistics under he guidance of a faculty member. Each student is required present analytical evaluation of his/her reading to his/ her faculty supervisor

## STAT 498

## Special Top

Credit Hours: 3
Sterin topics in statistics that are not part of the regular offerings. Topics will be selected by statistics faculty nembers as appropriat

## STAT 499

Senior Project
A number of skills learned throughout the curriculum are combined by expecting students to work through a variety of cases studies. Students are expected to collect data and analyze the data individually. Oral and written researc eports of suitable format and content are required.

## TRAN 201

## Principles \& Strat of Trans.

he 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 student how to apply these theoretical concepts to different texts. are presented, assessed and related to the practical tas 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 (Catford), Dynamic equivalence (Nida), Pragmatic 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

## ranslation 1

## redit 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, memphasis on issues involved in international crises cooperation, development and government structure Students will explore translation strategies related to the media and will be encouraged to examine practical problems, which are regula editorials and healing

Prerequisite:
TRAN 201 AND TRAN 202

## TRAN 302

Specialized Translation
Credit Hours: 3
The course provides focused training in the translation of texts in the fields of international relations, law and into English and Arabic. The treatment of such texts will ber guided by theoretical input covered in TRAN 201 and more importantly by 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 ndividuals to increase mutual respect and minimize its sophisticated vocabulary of symbols, beliefs, attitudes, values, customs and norms of behaviour Since language is enmeshed in culture, it is therefore impossible to ranslate between languages without a clear awarene of the cultural issues involved in every translation assignment. This course provides an in?depth view of he way in which cultures influence communication, and how diverse cultures encode and decode messages differently. Topics covered include perception differences, styles in both high and low context cultures, and the effec f bias and conflicting value systems on cross?cultural communication.

## Prerequisite

## TRAN 310

This course aims to develop the student's proficiency in using the two languages correctly from the aspects of ocusing on grammar, functional syntax, and the use of anguage in its functional syntactical dimensions. The course enables the student to derive verbs according o various verbs according to semantics and to derive evarious forms from the root and determine sentence from different concepts of grammar. Such as; morphology assertions, descriptive sentences, exceptional rules, negations, legend, and syntax. It also provides a number of practical texts to illustrate the various grammatical and morphological points to enable students to use contemporary Arabic language probably

## TRAN 311

Functional En Credit Hours: 3 translation perspective. It emphasizes that formal rules of 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 contex gentactic and semantic ary skils required in applying mprove 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: honology, morphology, syntax and semantics. A discours the lexicogrammar, is promoted throughout to enable students look at the way texts are organized functionally.

## TRAN 313

## Discourse Ana <br> redit Hours: 3 is for Translators

This course is designed to introduce students to the
principles and skills of text analysis, allowing them to apply f texts. The notions of text and textuality, as well as form and content, will be introduced. Analysis will include writte and spoken texts. Students will also be trained to use mputer aided text analysis using a variety of techniques. sudents are also trained to decipher the text producer's intentions, and methods of expressing and/or obscuring such intentions. Explicit and implicit attempts on the part maxims are related to the process of translation. Cultur manifestations in the structure and the functions of texts are also analyzed and related to the act of translation.

TRAN 201 AND TRAN 202
TRAN 314

## edia Translation II

redit Hours: 3
his course builds on Media Translation I, focusing on non?print media (film, television). It aims to provide tudents with grounding in the functioning of audiovisual ranslation (dubbing, subtiting, voice?over) and translation echnology while helping them develop critical awareness of the wider cultural and ideological implications of media ranslation. Current debates in media and translation udies will also be examis, with palicular emphasis on the use of intercultural translation in the global media.

Prerequisite:
TRAN 301

## TRAN 315

pecialized 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 02 and be guided by theoretical input covered in TRA Terminology and its application in these fields.

Prerequisite
TRAN 302
TRAN 302

## RRAN 401

## Credit Hours: 3

This course aims to introduce the students to importan 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 metaphorica and allegorical texts effectively. The course emphasize he three most inpo Enlish counterparts, which Arabic semantics, rhetoric, and figures of speech. The delivery of this course relies on political texts from Arabic and English literature emphasizing rhetorical devices, figurative language, stylistic and other terminology.

## TURK 101

Turkish 1
is cors
his course aims to introduce the Turkish language to eginning 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 he basics of Turkish, through grounding in the structure of sentences and current usage with the emphasis on ora communication. The course focuses equally on listening, speaking, reading, and writing

## TURK 201

## Credit Hours: 3

This course is a continuation of 101. It is designed to mprove different aspects of language and writing skills. It aims to improve students' conversational skills; to provide variety of readings for written comprehension; to develo a good grammar background; to improve listening skilis; 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 growth and academic success, while 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 esearch topics related to the Qatari community. This is to
emphasize students' role as citizen scholars in society and o develop skills necessary for life-long learning.

## UNIV P100

## skills for Univ

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 cluding introduction to the University, skills for academi success, and campus and community engagement. discussions, debates, and active engagements through different type of activities

## USUL 301

Principles of Exegesis
redit Hours: 3
ducating the students on the basic scientific principles of afseer, the characteristics of an exegete, the principle of the to and the views of various and methodologies with regard to the

## USUL 302

## slamic Theology <br> Credit Hours: 3

htroducing the student to llm al-kalam (Muslim theology), he reasons for its rise, significant theological sects, their various theological school Creating harmony between the schools after thoroughly understanding

## USUL 308

## egislative Texts of Hadit

Credit Hours: 3
This course instructs the student on the ways to derive slamic legal judgements from their original sources and rulings of Shariah regarding food, drinks and human rights follow the rulings of Shariah in letter and spirit.

## USUL 335

Contemporary Studies in Quran and Sunna Credit Hours: 3
roducing the student to contemporary studies on the Quran and Sunnah in the Middle East. Enabling the being raised around the Quran and Sunnah in their variou 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

## SUL 403

Credit Hours:
his course is designed to educate the students the manner of Takhreeh of ahadith with regard to their place in the hadith sources and then to be able to judge the narrations both with respect to their text and chain of narration.

## USUL 405

## Miracle of the Qura

Credit Hours: 3
introduce the student to the concept of the inimitability of he Quran and its various modes, its significance and role the acknowledgement of the source of revelation and mploying Quranic objectives and understandings in the light of the requirements of the modern period

## USUL 407

Thematic Exege
Enable the student to understand the objectives of the Quran through the study of juristic verses from surahs Baqarah, Ma'idah and Nisa' and the views of scholars of various juristic schools of thought. Moreover, it aims at eaching the application of the text to the current situation. Derivation of legal rulings from Quranic verses.

## USUL 409

## Credic Hours: 3

To provide students an understanding of the history of slamic philosophy and various philosophical schools and heories in Islam.

## JSUL 439

## ontemporary

Credit Hours
Acquaint the students with Muslim societies of the world through their religious, social and political culture, define the terms of 'Islamic world' and 'Muslim Ummah', the cultural diversity of the Muslim world, and assists the students in understanding the challenges faced by the contemporary world and the stance of the Muslim world in his regard.



[^0]:    Social/Behavioral Sciences Package (3 CH) Any Course in the CCP defined social package

