2022-2023 UNIVERSITY CATALOG

Spring 2023



عضـــو فـي مؤسســـة قطــر Member of Qatar Foundation

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PhD in Humanities and Social Sciences St
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Academic Programs
Juris Doctor
LL.M. in International Economic and Busir
LL.M. in International Law and Foreign Aff
Doctor of Juridical Science
Study Plans
Juris Doctor Study Plan
LL.M. in International Economic and Busir
LL.M. in International Law and Foreign Aff
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Master of Public Policy
Master of Social Policy and Program Evalu
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About the University

Hamad Bin Khalifa University (HBKU), a member of Qatar Foundation for Education, Science, and Community Development (QF), was founded in 2010 to continue fulfilling QF's vision of unlocking human potential. HBKU is a homegrown research and graduate studies University that acts as a catalyst for positive transformation in Qatar and the region while having a global impact.

Located within Education City, HBKU seeks to provide unparalleled opportunities where inquiry and discovery are integral to teaching and learning at all levels utilizing a multidisciplinary approach across all focus areas.

HBKU is committed to actively contribute to achieving the Qatar National Vision 2030 by building and cultivating human capacity through an enriching academic experience and an innovative research ecosystem. Through applying creativity to knowledge, students will have the opportunity to discover innovative solutions that are locally relevant and have a global impact.

At Hamad Bin Khalifa University – our students, faculty, staff, partners, and leadership – all share a common belief in the power of higher education and research to make a positive impact in the development of nations.

For more information, **CLICK HERE**

Contact Us

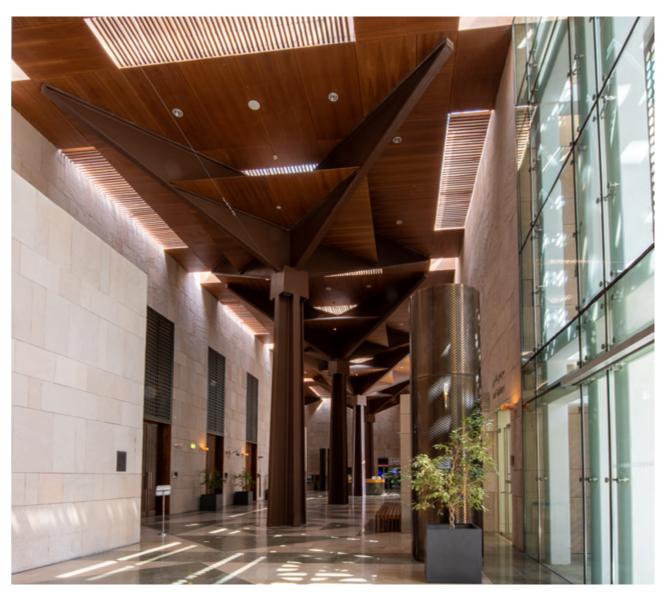
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Partnerships				partnerships@hbku.edu.qa
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	Finance Research Center for			
College of	Islamic Legislation	Website		
Islamic Studies	and Ethics			
	Muhammed Bin Hamad Al-Thani			
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Executive Education Center				
Executive Education Center		Website	445447422 445441384	EEC@hbku.edu.qa
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University Technology Services		Website		hbkuitsupport@hbku.edu.qa

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Academic Calendar

The 2022-2023 approved academic calendar

** Summer semesters will be listed based on approval of the Provost.

Date	Action
Wednesday, July 20, 2022	Deadline to assign Academic Advisors to new students
Sunday, July 24, 2022	New Student Registration for Fall 2022 starts
Sunday, July 24, 2022Start of advising week for new students	
Monday, July 25, 2022	Mandatory On-campus New Student Orientation
Monday, July 25, 2022	New Student Orientation Website launched
Wednesday, July 27, 2022	Faculty Orientation (tentative)
Sunday, July 31, 2022	Fall semester classes begin
Sunday, July 31, 2022	Course add/drop period starts
Thursday, August 4, 2022	Deadline to submit approved "Transfer Credit Requests"
	to the Registrar's Office - Fall
Thursday, August 4, 2022	Deadline to receive Audit requests for non-HBKU students for Fall 2022
Wednesday, August 10, 2022 Deadline to declare financial commitment	
Thursday, August 11, 2022	Last day to add a regular class on-line
Thursday, August 11, 2022	Deadline to drop courses without financial penalty
Thursday, August 11, 2022	Last day to drop a course without it appearing on record
Thursday, August 18, 2022	Last day to update N grades before an (F) is applied for late Spring grades
Thursday, August 18, 2022	Last day to apply for Leave of Absence for Fall 2022
	Last day to add a regular class at the Registrar Office with
Thursday, August 18, 2022	instructor, program coordinator and Dean's approval
Sunday, August 21, 2022	Admission terminated for non-registered new admits
Thursday, August 25, 2022	Deadline to drop or withdraw courses with a 25% tuition penalty
Thursday, August 25, 2022	University Census issued
Sunday, August 28, 2022	Fall Graduation Application open online
Thursday, September 8, 2022	Deadline to drop or withdraw courses with a 50% tuition penalty
Tuesday, September 20, 2022	Open information sessions for Fall Graduates
Thursday, September 22, 2022	Last day to drop a course with a grade of (W)

- no classes
es resume
nission Application opens to the public
o drop or withdraw courses with a 75% tuition penalty
0% financial penalty for dropped courses
o complete graduation application for Fall graduates
aluations Live for Fall semester
olds to be placed on student records for outstanding (Fall 2022)
iission of Thesis on Pro-quest for format (Fall)
or college to validate the list of Fall graduates
n for Spring 2023
o complete Pro-Quest and Similarity Index for ates
o submit Change of Major Forms to The Registrar's be applicable the following semester)
o complete Fall course evaluations
f classes
week
o complete University Clearance for Fall Graduates
or Pending Incomplete Grades to Become Failing ades for courses taken in Spring 2022)
e submission by faculty
es available online
onal Day

eadline to assign Academic Advisors to new students

all Diplomas and Graduation Statements available

The 2022-2023 approved academic calendar

** Summer semesters will be listed based on approval of the Provost.

Date	Action
Sunday, January 8, 2023	Spring semester classes begin
Sunday, January 8, 2023	Add/drop period starts
Thursday, January 12, 2023	Deadline to submit approved "Transfer Credit Requests" to the Registrar's Office - Spring
Thursday, January 12, 2023	Deadline to receive Audit requests for non-HBKU students for Spring 2023
Thursday, January 19, 2023	Last day to drop a course without it appearing on record
Thursday, January 19, 2023	Last day to add a regular class on-line
Thursday, January 19, 2023	Deadline to drop courses without financial penalty
Thursday, January 26, 2023	Last day to update N grades before an (F) is applied for late Fall grades
Thursday, January 26, 2023	Last day to apply for Leave of Absence for Spring 2023
Thursday, January 26, 2023	Last day to add a regular class at the Registrar Office with instructor, program coordinator and Dean's approval
Wednesday, February 1, 2023	Admission Application Deadline for International applicants
Thursday, February 2, 2023	Deadline to drop or withdraw courses with a 25% tuition penalty
Sunday, February 5, 2023	Spring Graduation Application Open online
	Qatar National Sports Day – no classes
Tuesday, February 14, 2023	
Wednesday, February 15, 2023	Open information sessions for Spring Graduates
Thursday, February 16, 2023	Deadline to drop or withdraw courses with a 50% tuition penalty
Sunday, February 19, 2023	Deadline to complete graduation application for Spring graduates
Thursday, March 2, 2023	Last day to drop a course with a grade of (W)
Sunday, March 5, 2023	Spring Break – no classes
Sunday, March 12, 2023	Classes resume
Wednesday, March 15, 2023	Admission Application deadline for Qatari and Resident applicants who wish to apply for funding (where available)
Wednesday, March 22, 2023	Ramadan 1 st (Tentative)
Thursday, March 23, 2023	Deadline to drop or withdraw courses with a 75% tuition penalty
Friday, March 24, 2023	Start of 100% financial penalty for Dropped courses
Sunday, April 2, 2023	Course Evaluations Live for Spring semester

Financial holds to be placed on student records for outstanding
payments (Spring 2023)

Last day for college to validate the list of Spring graduates

Registration for Fall 2023 starts

Deadline to submit "Change of Major Form" to The Registrar's Office (to be applicable the following semester)

Deadline to complete Spring course evaluations

Last day of classes

Action

Eid Al Fitr

Final exam week

Admission Application deadline for Qatari and Resident applicants

Deadline For Pending Incomplete Grades to Become Failing Grades

Final grade submission by faculty

Deadline to complete University Clearance for Spring Graduates

Qatar Foundation Convocation

Final grades available online

Deadline to receive exam results (Qualifying & Candidacy)

HBKU Graduation

Spring Diplomas and Graduation Statements available

Eid Al Adha

Admission

At Hamad Bin Khalifa University, our people are our greatest strength, and when you enroll on an academic program at HBKU you become part of a thriving community that is committed to excellence and innovation. Freshman Admission Requirements.

To learn about the admission requirements for each of our programs, **CLICK HERE**

Registration

The Registrar's Office is part of the Office of the Provost. The office provides students, faculty, advisors, and administrators with services pertaining to registration, scheduling courses, maintenance of the university catalog and management of student records as well as issuing official student documents.

The Registrar's Office provides these instructions every semester to cover the updates and new instructions for registration process.

For information on the functions offered by the Registrar's Office, **CLICK HERE**

Tuition and Fees

The tuition at HBKU is assessed on a credit hour basis. For detailed information on cost of each academic program, **CLICK HERE**

Academic Policies

The university Academic Policies govern processes related to students, faculty and various functions of the university. For the full listing of the Academic policies relevant to this catalog, **CLICK HERE**

Academic Degrees

UNDERGRADUATE DEGREES

Bachelor of Science in Computer Engineering

MASTER DEGREES

- LL.M. in International Economic and Business Law
- LL.M. in International Law and Foreign Affairs
- Master of Arts in Translation Studies
- Master of Arts in Audiovisual Translation
- Master of Arts in Digital Humanities & Societies
- Master of Arts in Women, Society & Development
 Master of Arts in Intercultural Communication
- Master of Arts in Islam and Global Affairs
- Master of Arts in Contemporary Islamic Studies
- Master of Arts in Applied Islamic Ethics
- Master of Science in Islamic Art, Architecture and Urbanism
- Master of Science in Islamic Finance
- Master of Science in Cybersecurity
- Master of Science in Data Science and Engineering
- Master of Data Analytics in Health Management
- Master of Information Systems in Health Management
- Master of Science in Logistics and Supply Chain Management
- Master of Science in Sport and Entertainment Management
- Master of Science in Sustainable Energy
- Master of Science in Sustainable Environment
- Master of Public Policy
- Master of Social Policy and Program Evaluation
- Master of Science in Exercise Science
- Master of Science in Biological and Biomedical Sciences
- Master of Science in Genomics and Precision Medicine

DOCTORAL DEGREES

- Juris Doctor in Law
- Doctor of Juridical Science
- > PhD in Humanities and Social Sciences
- PhD in Islamic Finance and Economy
- PhD in Computer Science & Engineering
- PhD in Logistics and Supply Chain Management
- PhD in Sustainable Energy
- PhD in Sustainable Environment
- PhD in Biological and Biomedical Sciences
- > PhD in Genomics and Precision Medicine

CERTIFICATE PROGRAMS

- Certificate in Law in Practice in Qatar
- Internship in Equine Science

Colleges, Programs & Study Plans



College of Health and Life Sciences

The College of Health and Life Sciences (CHLS) provides essential educational and research training to future leaders in the fields of biomedical sciences, genomics, and precision medicine. The college embodies a multidisciplinary learning approach to research and discovery, and aims to become a dedicated hub of knowledge-sharing in the area of health and life sciences. Its programs integrate scientific expertise by combining a seasoned collective of research partners within the university with esteemed external clinical and health science partners.

For more information, **CLICK HERE**

Academic Programs

Master of Science in Biological and Biomedical Sciences

The Master of Science in Biological and Biomedical Sciences (BBS) is a multidisciplinary graduate program that aims to train the next generation of leaders in biomedical sciences.

The Master's offer students an education that provides them with an advanced level of knowledge – particularly in applied areas of biological and biomedical sciences – and helps them develop critical and independent reasoning skills.

For more information, CLICK HERE

Master of Science in Genomics and Precision Medicine

HBKU's Genomics and Precision Medicine (GPM) programs are multidisciplinary graduate courses that have been designed to prepare the next generation of professionals and leaders, who will help implement the use of precision and personalized medicine in the healthcare system.

The Master of Science and PhD degree paths in GPM offer students advanced knowledge and training in state-of-the-art information gathering and analysis technologies in order to integrate "omics" – the branch of biology that deals with data on global changes at the molecular level in patients – with clinical data.

For more information, CLICK HERE

Master of Science in Exercise Science

The Master of Science (MS) in Exercise Science is offered by CHLS, working toward a joint degree with the number 1 ranked graduate Exercise Science program in the United States of America, offered by the Arnold School of Public Health at the University of South Carolina (USC).

Capitalizing on the recognized strengths of the USC program, the MS in Exercise Science will establish within Qatar and the MENA region a top-ranked educational and research degree program in exercise science. The program aligns with the objectives of the Qatar National Vision 2030 and the National Health Strategy 2018-2022, aiming to promote healthy lifestyles and enhance the health and welfare of the people of Qatar.

The MS in Exercise Science program is the only graduate program in exercise science in Qatar and prepares students for a spectrum of health- related specialties and professions within the field of Exercise Science.

For more information, CLICK HERE

PhD in Biological and Biomedical Sciences

The Master of Science and PhD programs in Biological and Biomedical Sciences (BBS) are multidisciplinary graduate programs that aim to train the next generation of leaders in biomedical sciences.

The Master's and PhD degree paths offer students an education that provides them with an advanced level of knowledge – particularly in applied areas of biological and biomedical sciences – and helps them develop critical and independent reasoning skills.

For more information, CLICK HERE

PhD in Genomics and Precision Medicine

HBKU's Genomics and Precision Medicine (GPM) programs are multidisciplinary graduate courses that have been designed to prepare the next generation of professionals and leaders, who will help implement the use of precision and personalized medicine in the healthcare system.

The Master of Science and PhD degree paths in GPM offer students advanced knowledge and training in state-of-the-art information gathering and analysis technologies in order to integrate "omics" – the branch of biology that deals with data on global changes at the molecular level in patients – with clinical data.

For more information, CLICK HERE

Study Plans

Master of Science in Biological and Biomedical Sciences

Minimum Hours required to complete program

Core Courses		15 CH
LS 601	Research Methods and Ethics	3
LS 603	Advanced Molecular Biology	3
LS 605	Advanced Cell Biology	3
LS 607	Advanced Human Physiology	3
CLS 625	Applied Biostatistics	3
Elective Courses		9 CH
Option 1: 3 electives		
Option 2: 2 courses f	rom electives + 1 Free Elective	
LS 708	Advanced Neurosciences	3
LS 709	Molecular and Cellular Biology of Neurodegenerative Diseases	3
LS 710	Cancer Biology	3
LS 712	Cancer Immunology	3
LS 713	Behavior, Learning and Memory	3
LS 714	Scientific Communication and Professional Development	3
LS 715	Physiopathological Mechanisms of Neurogenetic Diseases	3
LS 740	Stem Cell Biology	3
LS 741	Signal Transduction in Health and Diseases	3
LS 742	Advances in Human Metabolism and Disease	3
LS 751	Immunology and Immunogenomics	3
GPM 604	Advanced Genetics	3
CLS 600	Techniques in Biochemistry	3
CLS 661	Special Topics in Biosensors	3
CLS 711	Development and Diseases of The Nervous System	3
CLS 706	Independent Studies	3

Free Electives		
AIE 633	Islamic Bioethics	3
CLS 726	Proteomics in Precision Medicine	3
CLS 751	Molecular Mechanisms of Cancer and Their Applications	3
CSE 785	Innovation Entrepreneurship and Leadership I	3
EPID 700	Introduction to Epidemiology	3
EXSC 710	Behavioral Aspects of Physical Activity	3
EXSC 731	Mechanisms of Motor Skill Performance	3
EXSC 780	Physiology of Exercise	3
GPM 602	Clinical Applications in Genomics and Precision Medicine	3
GPM 607	Molecular Pathology	3
GPM 720	Pharmacogenomics	3
GPM 721	Bioinformatics	3
GPM 733	Epigenetics	3
Seminar		0 CH
Must pass twice		
LS 701	Research Seminar	0
Thesis		9 CH
LS 695	Master's Thesis Hours	0-6
Non-Course Requiren	nents	0 CH
699	Thesis Defense	

Master of Science in Genomics and Precision Medicine

Minimum hours required to complete program

Core Courses		15 CH
GPM 601	Research Methods and Ethics in Health and Genomics	3
GPM 602	Clinical Applications in Genomics and Precision Medicine	3
GPM 607	Molecular Pathology	3
GPM 604	Advanced Genetics	3
CLS 625	Applied Biostatistics	3
Elective Courses		9 CH
Option 1: 3 electiv	res	
Option 2: 2 course	es from electives + 1 Free Elective	
AIE 633	Islamic Bioethics	3
CLS 600	Techniques in Biochemistry	3
CLS 726	Proteomics in Precision Medicine	3
CLS 751	Molecular Mechanisms of Cancer and Their Applications	3
DSEG 660	Applied Deep Learning	3
DSEG 760	Machine Learning	3
GPM 720	Pharmacogenomics	3
GPM 721	Bioinformatics	3
GPM 733	Epigenetics	3
ICT 665	Artificial Intelligence and Machine Learning in Healthcare	3
ICT 666	Computational Bioinformatics	3
ICT 716	Data Science Tools and Applications	3
LAW 753	Healthcare Law	3
LS 603	Advanced Molecular Biology	3
LS 607	Advanced Human Physiology	3
LS 714	Scientific Communication and Professional Development	3
CLS 706	Independent Studies	3

Free Electives		
CLS 661	Special Topics in Biosensor	3
CLS 711	Development and Diseases of The Nervous System	3
CSE 785	Innovation Entrepreneurship and Leadership I	3
EPID 700	Introduction to Epidemiology	3
EXSC 710	Behavioral Aspects of Physical Activity	3
EXSC 780	Physiology of Exercise	3
LS 605	Advanced Cell Biology	3
LS 708	Advanced Neurosciences	3
LS 709	Molecular and Cellular Biology of Neurodegenerative Diseases	3
LS 710	Cancer Biology	3
LS 712	Cancer Immunology	3
LS 713	Behavior, Learning and Memory	3
LS 715	Physiopathological Mechanisms of Neurogenetic Diseases	3
LS 740	Stem Cell Biology	3
LS 741	Signal Transduction in Health and Diseases	3
LS 742	Advances in Human Metabolism and Disease	3
LS 751	Immunology and Immunogenomics	3
Seminar		0 CH
Must pass twice		
LS 701	Research Seminar	0
Thesis		9 CH
GPM 695	Master's Thesis Hours	0-6
Non-Course Require	ments	0 CH
699	Thesis Defense	0

Master of Science in Exercise Science

Minimum hours required to complete program

33 CH

Core Courses		15 CH
BIOS 700*	Introduction to Biostatistics	3
EXSC 780	Physiology of Exercise	3
EXSC 787	Research Methods and Design for Exercise Science	3
PUBH 700*	Perspectives in Public Health	3
Take one from below		
EXSC 700	Physical Activity and Health: Epidemiology, Research and Practice	3
EXSC 710	Behavioral Aspects of Physical Activity	3
EXSC 731	Mechanisms of Motor Skill Performance	3
EXSC 777*	Endocrinology of Exercise and Health	3
Elective Courses		12 CH
Students may take up to	o 6 credits from CHLS courses in addition to courses below	
Students may take up to EPID 700	o 6 credits from CHLS courses in addition to courses below Introduction to Epidemiology	3
		3
EPID 700	Introduction to Epidemiology	-
EPID 700 EXSC 700	Introduction to Epidemiology Physical Activity and Health: Epidemiology, Research, and Practice	3
EPID 700 EXSC 700 EXSC 710	Introduction to Epidemiology Physical Activity and Health: Epidemiology, Research, and Practice Behavioral Aspects of Physical Activity	3
EPID 700 EXSC 700 EXSC 710 EXSC 731	Introduction to EpidemiologyPhysical Activity and Health: Epidemiology, Research, and PracticeBehavioral Aspects of Physical ActivityMechanisms of Motor Skill Performance	3 3 3
EPID 700 EXSC 700 EXSC 710 EXSC 731 EXSC 742	Introduction to EpidemiologyPhysical Activity and Health: Epidemiology, Research, and PracticeBehavioral Aspects of Physical ActivityMechanisms of Motor Skill PerformanceClinical Exercise Testing	3 3 3 1
EPID 700 EXSC 700 EXSC 710 EXSC 731 EXSC 742 EXSC 743	Introduction to EpidemiologyPhysical Activity and Health: Epidemiology, Research, and PracticeBehavioral Aspects of Physical ActivityMechanisms of Motor Skill PerformanceClinical Exercise TestingLab Measurements for Exercise Testing	3 3 3 1 1
EPID 700 EXSC 700 EXSC 710 EXSC 731 EXSC 742 EXSC 743 EXSC 777*	Introduction to EpidemiologyPhysical Activity and Health: Epidemiology, Research, and PracticeBehavioral Aspects of Physical ActivityMechanisms of Motor Skill PerformanceClinical Exercise TestingLab Measurements for Exercise TestingEndocrinology of Exercise and Health	3 3 3 1 1 3 3
EPID 700 EXSC 700 EXSC 710 EXSC 731 EXSC 742 EXSC 743 EXSC 777* EXSC 781	Introduction to EpidemiologyPhysical Activity and Health: Epidemiology, Research, and PracticeBehavioral Aspects of Physical ActivityMechanisms of Motor Skill PerformanceClinical Exercise TestingLab Measurements for Exercise TestingEndocrinology of Exercise and HealthPhysiology, Exercise and Disease	3 3 3 1 1 3 3 3

Thesis		6 CH
EXSC 695	Master's Thesis Hours	0-6
Non-Course Req	uirements	0 CH
699	Thesis Defense	0

* Courses offered by the University of South Carolina

PhD in Biological and Biomedical Sciences

Minimum hours required to complete program

Core Courses		9 CH
CLS 625	Applied Biostatistics	3
LS 601	Research Methods and Ethics	3
LS 704	Metabolism and drug discovery	3
Elective Courses		9 CH
CLS 600	Techniques in Biochemistry	3
CLS 661	Special Topics in Biosensors	3
CLS 711	Development and diseases of the nervous system	3
GPM 604	Advanced Genetics	3
LS 603	Advanced Molecular Biology	3
LS 605	Advanced Cell Biology	3
LS 607	Advanced Human Physiology	3
LS 708	Advanced Neuroscience	3
LS 709	Molecular and Cellular Biology of Neurodegenerative Diseases	3
LS 710	Cancer Biology	3
LS 712	Cancer Immunology	3
LS 713	Behavior, Learning and Memory	3
LS 714	Scientific Communication and Professional Development	3
LS 715	Physiopathological Mechanisms of Neurogenetic Diseases	3
LS 740	Stem Cell Biology	3
LS 741	Signal Transduction in Health and Diseases	3
LS 742	Advances in Human Metabolism and Disease	3
LS 751	Immunology and Immunogenomics	3
CLS 706	Independent Studies	3

Free Electives		
Can choose maxin	num 1 from this list	
AIE 633	Islamic Bioethics	3
CLS 726	Proteomics in Precision Medicine	3
CLS 751	Molecular Mechanisms of Cancer and their Applications	3
CSE 785	Innovation Entrepreneurship and Leadership I	3
EPID 700	Introduction to Epidemiology	3
EXSC 710	Behavioral Aspects of Physical Activity	3
EXSC 731	Mechanisms of Motor Skill Performance	3
EXSC 780	Physiology of Exercise	3
GPM 602	Clinical Applications in Genomics and Precision Medicine	3
GPM 607	Molecular Pathology	3
GPM 720	Pharmacogenomics	3
GPM 721	Bioinformatics	3
GPM 733	Epigenetics	3
Seminar		
Must pass twice		
LS 701	Research Seminar	0
Thesis		36 CH
LS 890	Dissertation Hours	
Non-Course Requ	irements	0 CH
899	Thesis Defense	0
799	Candidacy Exam	0
790	Qualifying Exam	0

PhD in Genomics and Precision Medicine

Minimum hours required to complete program		54 CH
Core Courses		3 CH
GPM 705	Introduction to Data Science	3
Elective Courses		15 CH
AIE 633	Islamic Bioethics	3
CLS 600	Techniques in Biochemistry	3
CLS 625	Applied Biostatistics	3
CLS 726	Proteomics in Precision Medicine	3
CLS 751	Molecular Mechanisms of Cancer and their Applications	3
DSEG 660	Applied Deep Learning	3
DSEG 760	Machine Learning	3
GPM 601	Research Methods and Ethics in Health and Genomics	3
GPM 602	Clinical Applications in Genomics and Precision Medicine	3
GPM 604	Advanced Genetics	3
GPM 607	Molecular Pathology	3
GPM 720	Pharmacogenomics	3
GPM 721	Bioinformatics	3
GPM 733	Epigenetics	3
ICT 665	Artificial Intelligence and Machine Learning in Healthcare	3
ICT 666	Computational Bioinformatics	3
ICT 716	Data Science Tools and Applications	3
LAW 753	Healthcare Law	3
LS 603	Advanced Molecular Biology	3
LS 607	Advanced Human Physiology	3
LS 714	Scientific Communication and Professional Development	3
CLS 706	Independent Studies	3

Free Electives		
Can choose maximu	m 1 from this list	
CLS 661	Special Topics in Biosensors	3
CLS 711	Development and diseases of the nervous system	3
CSE 785	Innovation Entrepreneurship and Leadership I	3
EPID 700	Introduction to Epidemiology	3
EXSC 710	Behavioral Aspects of Physical Activity	3
EXSC 780	Physiology of Exercise	3
LS 605	Advanced Cell Biology	3
LS 708	Advanced Neurosciences	3
LS 709	Molecular and Cellular Biology of Neurodegenerative Diseases	3
LS 710	Cancer Biology	3
LS 712	Cancer Immunology	3
LS 713	Behavior, Learning and Memory	3
LS 715	Physiopathological Mechanisms of Neurogenetic Diseases	3
LS 740	Stem Cell Biology	3
LS 741	Signal Transduction in Health and Diseases	3
LS 742	Advances in Human Metabolism and Disease	3
LS 751	Immunology and Immunogenomics	3
Seminar		0 CH
Must pass twice		
LS 701	Research Seminar	0
Thesis		36 CH
GPM 890	Dissertation Hours	0-9
Non-Course Require	ements	0 CH
899	Thesis Defense	0
799	Candidacy Exam	0
790	Qualifying Exam	0

Course Descriptions

Internship in Equine Science Study Plan

Minimum hours required to complete program		
Core Courses		12 CH
STAT 501	Introduction to Statistics and Research Methodology	3
ES 515	Clinical rotations	0-9
Project		6 CH
ES 590	Research Project	0-6

CLS 600 Techniques in Biochemistry

	rechniques in Di
	This course is de
	biochemical and
	a functioning bio
	illustrating the sc
	hands-on experie
	include protein ex
	and cell culture.
CLS 625	Applied Biostatis

CLS 661

CLS 706

CLS 711

Applied Biostatistics

The aim of this course is to introduce the fundamental biostatistical concepts to life science students. It aims to give an overview of the statistical and computational ideas required for analysis methods in biological sciences, and provide hands-on experience in analysis. This course does not assume that the student has a background in mathematics and computer science, but introduces all necessary background during the course. The course is appropriate for graduate students and researchers in health and life sciences.

Special Topics in Biosensors

Over the past 20 years, the field of bio-sensing technology has had a profound impact on both laboratory research as well as commercial activities. With the advance of semiconductor and nanofabrication technologies, bio-technological application-specific integrated circuits (ASICs) have become a major trend in research as well as industry. Examples include DNA sensing, microelectrode measurement array systems for in-vitro and in-vivo physiological research at the cellular level. Bio-sensing has had a major impact on different fields including, E-health systems, genome research and drug development.

Independent Studies

Independent Studies allow students to examine a variety of timely, cutting-edge research areas in life sciences. Taught by our faculty, research scientists from our research institutes or associated industries, this course allows students to keep up with novel trends and topics in the field.

Development and diseases of the nervous system

The aim of the course is to unfold the processes that underlie the formation and disorders the nervous system at the molecular, cellular and circuitry levels. The course will focus on genes/proteins and signaling pathways involved in neural induction, neural tube closure, patterning of the nervous system, neurogenesis, neuronal migration, axon pathfinding, as well as formation and refinement of synapses. Both physiological and pathological conditions will be addressed.

College of Health and Life Sciences



3 credits

esigned to train students in a range of standard cellular biology techniques that are in routine use in ochemistry laboratory. The course combines lectures cientific principles underlying a particular technique with ence of the methodology in the laboratory. Techniques expression, purification, gel analysis, protein structure

3 credits

3 credits

3 credits

CLS 726	Proteomics in Precision Medicine	3 credits	EXSC 695	Master's Thesis Hours
	Personalized medicine has revolutionized the medical practice, and to achieve its goals today we are not only dependent on genomics but also on the proteomics for accurate diagnosis and efficient treatments. Thus, there is a growing demand for proteomics-based learning and applications in the field of basic and clinical research. The course Proteomics in precision medicine will bridge this knowledge gap in the GPM program by teaching the students key concepts of proteomics and		EXSC 700	Physical Activity and Health: Epidemiology, Research and Practice An introduction to physical activity epidemiology with an emphasis on the relationships between exercise and health for promotion of physica activity in clinical and public health settings.
	the overall applications and limitations.		EXSC 710	Behavioral Aspects of Physical Activity
CLS 751	Molecular Mechanisms of Cancer and their Applications This course will engage students in a detailed exploration of the most important neurological disorders, including Alzheimer's disease (AD), Parkinson's disease (PD), Huntington's disease (HD) and prion diseases. With an initial focus on clinical descriptions for each condition, an in-depth discussion on current hypotheses about the mechanisms underlying these diseases will constitute the bulk of this course.	3 credits		The major goal of this course is to increase your understanding of the role that behavioral factors play in physical activity and exercise. The first part of the course covers major behavioral and psychological theories that have been applied to exercise and physical activity. The second part of the course covers behaviorally oriented interventions to promote physical activity and exercise. Issues unique to children, older adults, women, and people of color will be highlighted. The final part of the course covers the impact of physical activity and exercise on menta- health outcomes. This section includes an overview of the role that
EPID 700	Introduction to Epidemiology	3 credits		depression plays in morbidity and mortality.
	The major purpose of this core course is to introduce students to the discipline of epidemiology and its application to public health issues and practice.		EXSC 731	Mechanisms of Motor Skill Performance A study of theories and mechanisms in human movement. Focus is on analysis of principles and systems of gross motor control and learning.
ES 515	Clinical rotations The goal of this course is to expose the students to the main 5 disciplines covered by an equine practitioner in the field and hospital setting. This overall exposure will give the sufficient skills to embark as a private practitioner in the field and understand how to make clinical decision with an evidence based medical approach or continue strengthen the knowledge in an academic environment.	0-6 credits	EXSC 732	Applied Biomechanics The focus of this course is to apply general principles of mechanics and physics to analyze human movement. Students will develop an understanding of forces within muscles, the strength properties of bones, the variety of joint designs and resulting different degrees of freedom, and how these initiate and control human movement. Basic mechanics (statics, kinematics, and kinetics) will be studied in two and
ES 590	Research Project The objective of the research project is to raise critical thinking, by proposing research project hypotheses that are based on a strong and transparent premises and enhanced development of novelty arising from the full integration across the sub-disciplines. Students will also be encouraged to perform state of the art technologies into their research projects.	0-6 credits	EXSC 742	 three dimensions. The biomechanics of human walking and running ga will be investigated. Clinical Exercise Testing EXSC 742 is a clinical exercise laboratory course intended for the student with little or no exercise science laboratory experience. In this course students will acquire the basic knowledge of clinical exercise testing with an overall emphasis on physiological measurement and

interpretation of data.

0-6 credits **Epidemiology, Research and Practice** 3 credits ctivity epidemiology with an emphasis on ercise and health for promotion of physical nealth settings. al Activity 3 credits is to increase your understanding of rs play in physical activity and exercise. overs major behavioral and psychological ed to exercise and physical activity. The vers behaviorally oriented interventions to exercise. Issues unique to children, older color will be highlighted. The final part of of physical activity and exercise on mental includes an overview of the role that and mortality. erformance 3 credits anisms in human movement. Focus is on tems of gross motor control and learning. 3 credits apply general principles of mechanics n movement. Students will develop an in muscles, the strength properties of igns and resulting different degrees of ate and control human movement. Basic cs, and kinetics) will be studied in two and chanics of human walking and running gait 1 credit e laboratory course intended for the ise science laboratory experience. In this

EXSC 743	Lab Measurements for Exercise Testing This course expands the student's knowledge of exercise testing through the biochemical determination of plasma variables and how these variables may change during or following exercise. The course emphasizes the importance of matching a biochemical response to the physiological measurements during exercise testing.
EXSC 780	Physiology of Exercise
	Physiological responses to exercise: skeletal muscle structure and function, cardiorespiratory function, physiological determinants of exercise performance, and training adaptations.
EXSC 781	Physiology, Exercise and Disease
	EXSC 781 is designed to provide students with the basic understanding of physiological adaptations to exercise and disease as it relates to the study of the nervous system, the skeletal muscular system, the cardiovascular system and the gastrointestinal system.
EXSC 784	Cardiopulmonary Exercise Testing and Prescription
	This course will instruct the students in the physiological background and theory underlying cardiopulmonary exercise testing, and provide hands on practical experience in laboratory methods of cardiopulmonary exercise testing, lung function and ECG. General principles of exercise prescription and programming will also be covered
EXSC 787	Research Methods and Design for Exercise Science
	The major goal of this course is to provide an in-depth examination of research concepts, terminology, experimental, non-experimental, and epidemiological designs, internal and external validity, methods for establishing causality and investigating associations, and application of designs to test hypotheses in research of exercise science-related outcomes. Examples will be drawn from numerous disciplines, with the primary emphasis placed on those dealing with topics directly related to exercise science. Students will be required to read, critically evaluate,

and discuss research articles and conceptual papers. Issues unique

a basic understanding of statistics (e.g., variance, correlation). While

statistics will not be discussed in this class, the overlay of statistics

and research design cannot be separated.

to different research designs will be highlighted. Students should have

3 credits 3 credits 3 credits

1 credit

Research Methods and Ethics in

GPM 601

GPM 602

GPM 604

GPM 607

GPM 695

GPM 705

This course aims to provide a correction of the scientific thinking, and acar for study design and good researce state-of-the-art knowledge relatin precision medicine, and health and scientific the science of the sci

Clinical Applications in Genomics

This course covers fundamental c and precision medicine in a clinical relevant technologies with emphase outcome, drug design, as well as p in clinical genomics and precision

Advanced Genetics

This course covers important con as inheritance, developmental pro as well as genetic testing, DNA se approaches to genetically inherite

Molecular Pathology

This course covers current concer application in translational resear emphasis on the molecular pathon neurological and infectious diseas

Master's Thesis Hours

Introduction to Data Science

Genomics and precision medicine require handling, exploring and understanding large data sets. This course aims to introduce students to basic concepts from probability, statistical inference, linear regression and machine learning using R. No previous knowledge of programming is required, as the course will introduce basic programming concepts and through examples will enable students to ask the right questions, perform their own analyses and visualize the results effectively. The course will provide the students with hands-on programming experience.

Uselth and Osciencias	2
Health and Genomics mprehensive overview on research ademic writing as well as guidelines rch practice. The course will also offer ng to novel methods in genomics, nalytics.	3 credits
s and Precision Medicine	3 credits
concepts in the application of genomic cal context. Included are modules on asis on data interpretation for clinical problem based learning components n medicine	
	3 credits
ncepts and principles in genetics such ocesses, genetic mapping and diseases equencing technologies, and treatment ed diseases.	
	3 credits
epts in molecular pathology and their rch and diagnostics, with particular ology of cancer, cardiovascular, ase.	
	0-6 credits

GPM 720	Pharmacogenomics	3 credits	LS 603	Advanced Molecular Biology
	This course covers fundamental concepts in the field of Pharmacogenomics and how it will help in the realization of			This course covers the important including the replication of DNA, h
	personalized medicine. It will include the basic principles of drug			is modified, transported and regula
	discovery and design, pharmacology, pharmacogenetics and			protein. Through the use of primar
	pharmacogenomics applied to several disease conditions.			a current understanding of these s
GPM 721	Bioinformatics	3 credits	LS 605	Advanced Cell Biology
	The course will convey the fundamentals of bioinformatics methods for			This course builds on the knowled
	genomics data analysis to life science students. It aims to communicate			Molecular Biology and covers the
	the computational ideas behind key analysis methods in genomics and			the study of the basic unit of life. I
	to provide practical training in using web-based tools and bioinformatics			published seminal scientific paper
	software packages in R. It will enable students to perform basic			understanding of the current resea
	analysis steps for sequencing data. This course does not assume that			in cell biology.
	the student has a background in mathematics and computer science,			
	but rather introduces mathematical concepts and/or programming		LS 607	Advanced Human Physiology
	languages, as they are needed.			This course focuses on how the h
				an integrated system in which cell
GPM 733	Epigenetics	3 credits		to maintain a healthy body. It cove
	This course is an elective epigenetic course. The course will provide			of cardiovascular, respiratory, mus
	an introduction to various epigenetic mechanisms and explain how			systems. The course also highligh
	they determine chromatin architecture and control gene expression.			disease conditions.
	This is important to understand transcriptional regulation particularly			
	during development, as well as during stem cell (re)programming.		LS 695	Master's Thesis Hours
	In addition, the course will cover how epigenetic alterations can cause		L3 093	
	aberrant silencing or activation of genes that can have an influence			
	on health and disease. An acquaintance with the field of epigenetics		LS 701	Research Seminar
	is essential for a major in Genomics and Precision Medicine.			The Life Science Seminar is a wee
				CHLS, aiming to engage students
GPM 890	Dissertation Hours	0-9 credits		exchange and networking for the
				in Qatar.
LS 601	Research Methods and Ethics	3 credits	LS 704	Metabolism and drug discovery
	This course is a foundational course for graduate students who will			The course will provide an in-dept
	be engaged in research with a focus on health sciences and precision			between metabolism and importa
	medicine. It provides students with advanced discussions on ethics and			the pathways of intermediary met
	ethical misconduct, intellectual property and environmental health and			and degrade carbohydrates, lipids
	safety as well as scientific thought and design of experiments.			these pathways are regulated by e
	A focus of the course is to transition students from textbooks			how this can be translated into dru
	to primary literature as their main source of information.			will be on how obesity, diabetes, c
				syndrome and defects in metabo

rse covers the important principles in Molecular Biology, the replication of DNA, how DNA is converted to RNA, how RNA ed, transported and regulated, and finally how it is converted to Through the use of primary literature papers, students will gain understanding of these subjects.

se builds on the knowledge students acquired in Advanced r Biology and covers the important principles of Cell Biology, of the basic unit of life. By relying heavily on recently d seminal scientific papers, students will acquire an accurate nding of the current research progress in key areas

rse focuses on how the human body functions as ated system in which cells, tissues, and organs interact ain a healthy body. It covers the anatomy and physiology vascular, respiratory, muscle, renal, gut and endocrine . The course also highlights the pathophysiology of some

a **Seminar** Science Seminar is a weekly lecture that is organized jointly by ning to engage students and scientists to catalyze information and networking for the advancement of life science research

The course will provide an in-depth analysis of the relationships between metabolism and important human diseases. It will focus on the pathways of intermediary metabolism by which all cells synthesize and degrade carbohydrates, lipids (fats), and proteins; and discuss how these pathways are regulated by effector molecules and hormones, and how this can be translated into drug design and development. Emphasis will be on how obesity, diabetes, cardiovascular disease, metabolic syndrome, and defects in metabolic pathways lead to cancer. 3 credits

3 credits

0-6 credits

0 credits

LS 708	Advanced Neurosciences	3 credits	LS 712	Cancer Immunology
	This graduate course will provide knowledge on fundamental principles that encompass the multidisciplinary field of neuroscience. This will include basic principles of membrane excitability, neuronal information transfer and storage, neuropharmacology, neurodevelopment, sensory systems physiology, behavior and clinical manifestations. Focus on each of these topic areas will include interactive lectures together with development of critical thinking via review and discussion of recent scientific articles that are advancing the field. The course material encompasses molecular, cellular tissue and systems level physiology in each of the sub-discipline areas. Emphasis will be on providing a solid foundation in basic principles to prepare those conducting research in neuroscience to implement the transdisciplinary information in innovative ways.			Cancer Immunotherapy was select breakthrough of the year for 2013, the first cloned mammal and the c genome. Cancer immunology is no of cancer research and has promp important novel therapies currently therapies, vaccine therapies, and n to understand the interaction betw and to discover innovative cancer in progression of the disease. This co of cancer immunology including in immune evasion, immunopathoger In addition, the different immunoth including T-cell therapy, antibody-b will be covered.
LS 709	Molecular and Cellular Biology of Neurodegenerative Diseases	3 credits		
	This course will engage students in a detailed exploration of the most important neurological disorders, including Alzheimer's disease (AD), Parkinson's disease (PD), Huntington's disease (HD) and prion diseases. With an initial focus on clinical descriptions for each condition, an in-depth discussion on current hypotheses about the mechanisms underlying these diseases will constitute the bulk of this course.		LS 713	Behavior, Learning and Memory This course will provide the knowle of neuroscience and build the four biological basis of behavior, learnin cover the perspectives, questions, and molecular systems responsibl emotions, consciousness and neu- like addiction, fear and anxiety and
LS 710	Cancer Biology During this course, students will be exposed to the latest findings in the molecular mechanisms that underlie the genesis and progression of human cancers. Lectures and discussions will be based entirely	3 credits		learn neuroanatomy, and how the a simple motor action and complex such as learning and memory.
	upon the current scientific literature. These papers will highlight how perturbation of the cell cycle, DNA damage checkpoints, and repair machinery can both promote cancer and be capitalized upon for cancer treatment. This course will provide the knowledge on multidisciplinary field of neuroscience and build the foundation for understanding the biological basis of behavior, learning and memory. This course will cover the		LS 714	Scientific Communication and Pro This course will cover key concepts both written and oral. It will also ac letter preparation for academia and the skills needed in mentoring, esta funded in academia.
	perspectives, questions, and techniques related to neural and molecular systems responsible for behavior, learning, memory, emotions, consciousness and neurodevelopmental basis of behaviors like addiction, fear and anxiety and Alzheimer's disease. Students will learn neuroanatomy, and how the activity of few neurons can yield simple motor action and complex behavioral/psychological functions such as learning and memory.		LS 715	Physiopathological Mechanisms of This course is intended for graduat a detailed understanding of molec physiopathological mechanism of and muscles. Throughout the cour the experimental approaches that Students will be assigned recent re reading materials. About 2/3 of the

ected by Science journal as the 3, which placed it in the company of e complete sequencing of the human now one of the most active areas npted the development of several ntly in use, including cytokine-based d monoclonal antibody therapies. It aims tween immune system and cancer cells, er immunotherapies to treat and retard course covers the important aspects immune surveillance/editing theory, genesis of cancer and tumor antigens. otherapeutic approaches of cancer, y-based therapies and cancer vaccines

wledge on multidisciplinary field bundation for understanding the rning and memory. This course will hs, and techniques related to neural sible for behavior, learning, memory, eurodevelopmental basis of behaviors and Alzheimer's disease. Students will he activity of few neurons can yield ex behavioral/psychological functions

Professional Development

pts in effective scientific communication, address aspects of CV and cover and industry. In addition, it will provide establishing collaborations and getting

s of Neurogenetic Diseases

This course is intended for graduate students interested in gaining a detailed understanding of molecular mechanisms underlying physiopathological mechanism of genetic diseases related to synapses and muscles. Throughout the course, the focus will be on understanding the experimental approaches that produced current knowledge. Students will be assigned recent research papers as their primary reading materials. About 2/3 of the classes will be lectures by the instructor and 1/3 will be student led discussions of papers. 3 credits

3 credits

LS 740	Stem Cell Biology	3 credits	LS 751	Immunology and Immunogenomics
	This course is intended as an introduction and in-depth discussion focused on the biology of stem cells. The course will introduce the features of stem cells and basic mechanisms regulating their self- renewal and pluripotency. In addition, the course will focus on selected examples of adult stem cells with an introduction to translational medicine approaches involving stem cell biology. Major emphasis will be placed on how advances in stem cell biology and tissue engineering can be applied to the use of embryonic and adult stem cells in regenerative medicine. In addition to these topics, students will be introduced to the ethical, regulatory, and legal issues related to stem cell research.			This course addresses important cond students a broad knowledge base from learn advanced concepts and pursue re the field. The course also covers conce including how genetic defects affect in in diverse phenotypes or consequence lectures 2 hours a week to teach funda starting week 9 with 5 hours/week of h experimental methods/tools in immun club presentations. Lastly, the course v immunogenetics and inborn errors of i IMAGINE Institute, Paris, France. The c
LS 741	Signal Transduction in Health and Diseases	3 credits		of cell and molecular biology.
	The course will engage students in the concepts of signal transduction, and how the signaling pathways drive different physiological as well as pathological conditions such as diabetes, cancer, and neurological disorders.		LS 890	Dissertation Hours
			STAT 501	Introduction to Statistics and Researc
LS 742	Advances in Human Metabolism and Disease The course will provide an in-depth analysis of the relationships between metabolism and important human diseases. It will focus on the pathways of intermediary metabolism by which all cells synthesize and degrade carbohydrates, lipids (fats) and proteins; and discuss how these pathways are regulated by effector molecules and by hormones in living systems. Much of the emphasis will be on how several human disorders such as obesity, diabetes, cardiovascular disease, the metabolic syndrome and cancer arise from defects in metabolic pathways.	3 credits		This course is a foundational course for be engaged in biomedical sciences res with basic statistical knowledge, powe Advanced discussions on ethics and er property and environmental health and thought, and design of experiments are course is to transition students from te as their main source of information.

t concepts in immunology and gives e from which they can continue to rsue research in any aspect within concepts in immunogenetics fect immune responses, resulting uences. The course will start with fundamental concepts, then continue ek of hands-on training/practical on nmunology as well as student journal burse will conclude with a workshop on rs of immunity by guest lecturers from The course assumes basic knowledge

0-9 credits

esearch Methodology

urse for graduate students who will es research. It provides students power calculation and project design and ethical misconduct, intellectual th and safety as well as scientific nts are also covered. A focus of the rom textbooks to primary literature on.



College of Humanities and Social Sciences

The College of Humanities and Social Sciences (CHSS) was established with a vision to enrich society in Qatar and across the wider world with transformative educational experiences that bridge disciplinary boundaries, and offer the academic community opportunities to engage in innovative research and collaboration. The college aspires to nurture a diverse body of academically grounded and socially responsible global citizens, whose versatility will enable them to navigate the complexities of today's world and become tomorrow's leaders.

For more information, **CLICK HERE**

Academic Programs

Master of Arts in Translation Studies

A two-year program designed to train highly skilled translators.

The MA in Translation Studies (MATS) delivered by TII is designed to train highly skilled translators in the areas of business and commerce, science and technology, literary translation, legal and medical translation, and translation of media texts, as well as translation for international organizations.

For more information, CLICK HERE

Master of Arts in Audiovisual Translation

A two-year full-time (or three-year part-time) specialist program designed to train specialists in the mediation of audiovisual texts.

The MA in Audiovisual Translation (MAAT) delivered by TII is designed to train specialists in the mediation of audiovisual texts, both for foreign language viewers and sensory-impaired audiences.

For more information, CLICK HERE

Master of Arts in Digital Humanities and Societies

A two-year program focusing on the study of digital technologies and their effect on aspects of human culture, with an emphasis on digital methods and trends and practices in digital culture.

The MA in Digital Humanities and Societies is a two-year program that allows participants to study the Middle East's digital culture from a scholarly and digital research perspective.

For more information, CLICK HERE

Master of Arts in Women, Society and Development

A two-year program focusing on women's studies in general and Arab women in particular. It draws from a variety of disciplines, including economic and social theory; development and policy studies; and law and communication studies.

For more information, CLICK HERE

Master of Arts in Intercultural Communication

The MA in Intercultural Communication (MAICC) offered by Hamad Bin Khalifa University's College of Humanities and Social Sciences (CHSS) is the first degree of its kind in Qatar. Students in this program will engage in research, education, and outreach with a view to understanding the challenges of today's changing intercultural settings in Qatar and worldwide.

The program aims to respond to these changed societal demands, including the need for court interpreting, community interpreting, and medical interpreting – the three mediational forms of interpreting in intercultural settings and work environments that are specific to Qatar. The program will also offer courses on intercultural communication and the use of digital technologies to achieve effective intercultural communication in an inclusive and accessible society.

Additionally, research in the intercultural communication field will generate new policies and e-applications geared towards implementing the outcomes of the distinct features of the program. These program outcomes will lead to the creation of innovative applications fit for heading transformative changes in Qatar and globally.

For more information, CLICK HERE

PhD in Humanities and Social Sciences

PhD in Humanities and Social Sciences. The Doctor of Philosophy (PhD) in Humanities and Social Sciences is the first degree of its kind in Qatar, and one of the few in the world providing students with the philosophical and technical grounding to design and tailor their own interdisciplinary program while being able to specialize through a dissertation.

For more information, CLICK HERE

Study Plans

Master of Arts in Translation Studies

Minimum hours required to complete program

Core Courses		21 CH
TR 611	Introduction to Translation Studies	3
TR 612	Pragmatic Translation	3
TR 613	Arabic Stylistics for Translators	3
TSD 621	Current Trends in Translation Studies	3
TSD 623	Specialized Translation	3
TSD 624	Translation Technologies	3
TSD 645	Research Methods in Translation Studies	3
Elective Courses		9 CH
AVT 624	Subtitling	3
AVT 627	Voicing	3
AVT 636	Intersensory Translation for Access	3
AVT 658	Special Topics in Audiovisual Translation	3
AVT 659	Introduction to Audiovisual Translation	3
DHS 660	Digital Disinformation and Propaganda in the Middle East and North Africa	3
DHS 661	Digital Writing	3
SS 600	Thinking and Practicing Interdisciplinarity in the Humanities and the Social Sciences	3
TSD 628	Terminology	3
TSD 652	Commercial Translation	3
TSD 653	Media Translation	3
TSD 655	Literary Translation	3
TSD 656	Intercultural Translation	3
TSD 657	Legal Translation	3
TSD 658	Special Topics in Translation Studies	3
WSD 662	Women and Gender in the Literature and Cinema of the Middle East and North Africa	3

	3 CH
Internship	3
	6 CH
Master's Thesis Hours	0-6
Non-Course Requirements	
Thesis Defense	0
	Master's Thesis Hours uirements

Master of Arts in Audiovisual Translation

Minimum hours required to complete program

Core Courses		24 CH
AVT 621	Current Trends in Audiovisual Translation	3
AVT 624	Subtitling	3
AVT 627	Voicing	3
AVT 636	Intersensory Translation for Access	3
AVT 645	Research Methods in Audiovisual Translation	3
TR 611	Introduction to Translation Studies	3
TR 612	Pragmatic Translation	3
TR 613	Arabic Stylistics for Translators	3
Elective Courses		6 CH
AVT 654	Advanced Subtitling	3
AVT 655	Advanced Dubbing	3
AVT 658	Special Topics in Audiovisual Translation	3
AVT 659	Introduction to Audiovisual Translation	3
DHS 660	Digital Disinformation and Propaganda in the Middle East and North Africa	3
DHS 661	Digital Writing	3
SS 600	Thinking and Practicing Interdisciplinarity in the Humanities and the Social Sciences	3
TSD 624	Translation Technologies	3
TSD 628	Terminology	3
TSD 652	Commercial Translation	3
TSD 653	Media Translation	3
TSD 655	Literary Translation	3
TSD 656	Intercultural Translation	3
TSD 657	Legal Translation	3

TSD 658	Special Topics in Translation Studies	3
WSD 662	Women and Gender in the Literature and Cinema of the Middle East and North Africa	3
Internship		3 CH
AVT 691	Internship	3
Thesis		6 CH
AVT 695	Master's Thesis Hours	0-6
Non-Course Req	uirements	0 CH
699	Thesis Defense	0

Master of Arts in Digital Humanities and Societies

Minimum hours required to complete program

Core Courses		18 CH
DHS 621	Approaches to Digital Humanities	3
DHS 622	Digital Communication and Media	3
DHS 623	Methods in Digital Humanities	3
ME 611	History, Politics and Cultures of the Middle East	3
ME 613	Social, Economic and Development Theory	3
SS 612	Research Methods	3
Elective Courses		9 CH
DHS 651	Emerging Technologies and Applications	3
DHS 652	Digital Publishing and Design	3
DHS 654	Civil Society and Digital Activism	3
DHS 655	Exploring Digital Heritage Methods	3
DHS 656	Introduction to Human Language Technologies	3
DHS 657	Coding for Humanities	3
DHS 658	Digital Resources in the Humanities	3
DHS 659	Digital Innovation and Transformation	3
DHS 660	Digital Disinformation and Propaganda in the Middle East and North Africa	3
DHS 661	Digital Writing	3
SS 600	Thinking and Practicing Interdisciplinarity in the Humanities and the Social Sciences	3
TSD 628	Terminology	3
WSD 653	Gender and Digital Cultures	3
WSD 662	Women and Gender in the Literature and Cinema of the Middle East and North Africa	3

Internship or Pro	ject	3 CH
DHS 691	Internship	3
Or		
DHS 669	Independent Research Project	3
Thesis		9 CH
DHS 695	Master's Thesis Hours	0-6
Non-Course Requirements		0 CH
699	Thesis Defense	0

Master of Arts in Women, Society and Development

Minimum hours required to complete program

Core Courses		18 CH
ME 611	History, Politics and Cultures of the Middle East	3
ME 613	Social, Economic and Development Theory	3
SS 612	Research Methods	3
WSD 621	Introduction to Women and Gender Studies	3
WSD 622	Women, Work and Economic Development in the Middle East	3
WSD 623	Research Methods in Women's and Gender Studies	3
Elective Courses		9 CH
DHS 623	Methods in Digital Humanities	3
DHS 660	Digital Disinformation and Propaganda in the Middle East and North Africa	3
DHS 661	Digital Writing	3
SS 600	Thinking and Practicing Interdisciplinarity in the Humanities and the Social Sciences	3
SS 662	The Gulf States and the International Order	3
TSD 628	Terminology	3
WSD 651	The Anthropology of Gender in the Middle East	3
WSD 652	Women, Law and Citizenship	3
WSD 653	Gender and Digital Cultures	3
WSD 655	Women, State and Modernity in the Arab World	3
WSD 656	Family and Kinship in the Middle East	3
WSD 657	Women, Media and Communication	3
WSD 658	Special Topics in Women Studies	3
WSD 660	Women in Comparative World Religions	3
WSD 661	Women in World History	3
WSD 662	Women and Gender in the Literature and Cinema of the Middle East and North Africa	3

Internship or Pro	ject	3 CH
WSD 691	Internship	3
Or		
WSD 659	Independent Research Project	
Thesis		9 CH
WSD 695	Master's Thesis Hours	0-6
Non-Course Requ	uirements	0 CH
699	Thesis Defense	0

Master of Arts in Intercultural Communication

Minimum hours required to complete program

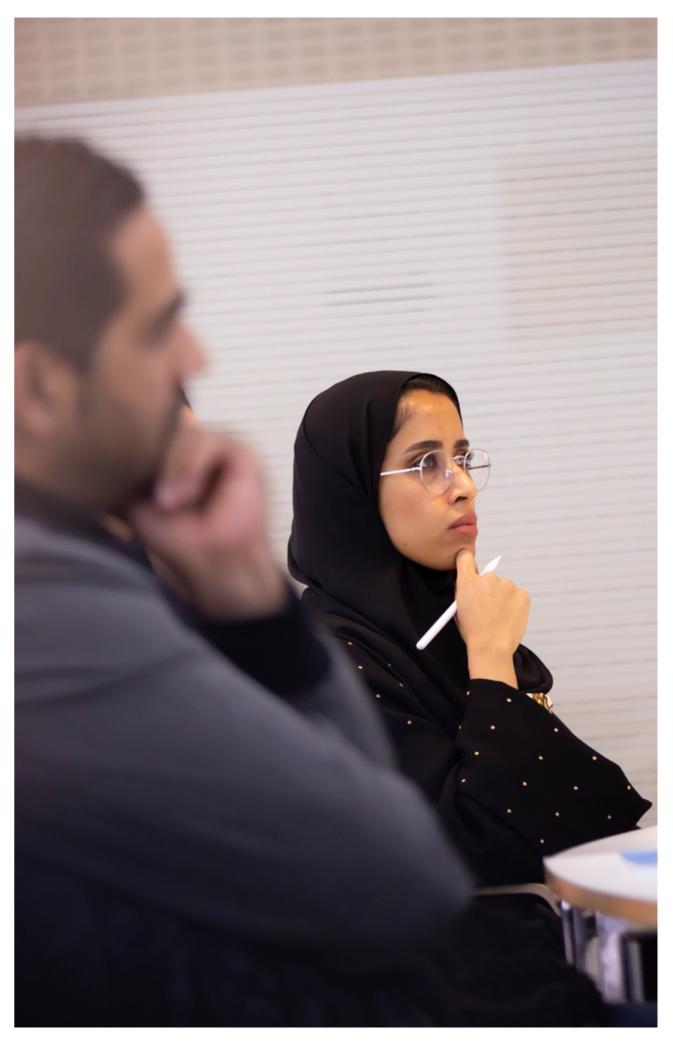
Core Courses		18 CH
ICC 600	Foundations, Critical Approaches and Future Challenges in Intercultural Communication	3
ICC 601	Research in Intercultural Communication: Tools and Methods	3
ICC 602	Managing Communication in Intercultural Settings	3
ICC 603	Intercultural Communication in the Community: Mediation & Interpreting	3
ICC 604	Discourse and Communication Analysis	3
ICC 605	Intercultural Communication in Organizations: Consulting & Management	3
Elective Courses		9 CH
TR 613	Arabic Stylistics for Translators	3
TSD 624	Translational Technologies	3
TSD 656	Intercultural Translation	3
DHS 651	Emerging Technologies and Applications	3
DHS 659	Digital Innovation and Transformation	3
WSD 653	Gender and Digital Cultures	3
WSD 656	Family and Kinship in the Middle East	3
ICC 621	Intercultural Communication in Digital Media	3
ICC 622	Intercultural Conflict Management	3
	Mediation Interpreting in Healthcare	3
ICC 623		
ICC 623 ICC 624	Intercultural Competence in Healthcare	3

oject	3 CH
Internship	3
	9 CH
Master's Thesis Hours	0-6
quirements	0 CH
Thesis Defense	0
	Internship Master's Thesis Hours quirements

PhD in Humanities and Social Sciences

Minimum hours required to complete program	54 CH

Core Courses		9 CH
HSS 700	Explorations in Global Humanities	3
HSS 706	Doctoral Independent Study	3
HSS 720	Explorations in Interdisciplinarity	3
Free Electives		9 CH
Take 3 courses fr	rom any College at HBKU	
	Free Elective 1	3
	Free Elective 2	3
	Free Elective 3	3
Dissertation		36 CH
HSS 890	Dissertation Hours	0-9
Non-Course Req	uirements	0 CH
899	Dissertation Defense	0
790	Doctoral Qualifying Exam	0
799	Candidacy Exam	0



Course Descriptions

AVT 621	Current Trends in Audiovisual Translation	3 credits	AVT 645	Research Methods in Audiovisual T
	This course introduces students to more recent scholarly approaches to the study of translation. The course follows a thematic and chronological development of the major theories in the field of TS in relation to other disciplines of the humanities and social sciences, including literary, philosophical, historical, political and sociological approaches. Through discriminating, critical engagement with theory and its scholarly and practical applications, this course invites students to think critically and reflectively about the complexity and implications of the choices they have to make as translators and scholars.			This course prepares students to wr practice-oriented. It builds on all the and leads them through the main are Translation, the principles of design literature and writing research propo and requirements for writing transla of writing a practice-oriented thesis accompanied by a theoretically-infor
			AVT 654	Advanced Subtitling
AVT 624	Subtitling This is a practical course which introduces students to subtitling (interlingual and SDH). Students are introduced to norms and conventions of both subtitling types: tempo-spatial constraints, timing, condensation, verbal and non-verbal cues, punctuation, positioning and segmentation. Students see how subtitles are a form of inter-semiotic mediation and learn how to apply appropriate strategies in view of the source text and intended audience (hearers or deaf viewers). Students	3 credits		This course extends the essential sk professional level, with experience in as serious cultural and linguistic cha their professional practice further an standards and practices that are cur Students will also be encouraged to standards and consider ways in which value greater quality more highly.
	also learn how to handle culture-specific difficulties in subtitling.		AVT 655	Advanced Dubbing
AVT 627	Voicing This course introduces students to the transadaptation of filmic visual content and dialogue for non-lip-synched dubbing, voice over or audio description. The language of instruction and of activities is both Arabic and English. Students learn to create scripts and to deal with a range of linguistic, cultural, semiotic and technical issues when producing voicing scripts; e.g. re-segmentation and the use of standard dubbing/voicing	3 credits		This unit follows on from AVT 627 a a more professional level while also recording and production of lip-sync Students will tackle more complex to learning to deal with a variety of cross rendering of dialect, slang, taboo lan to adapt for closely lip-synched dubl
	symbols. Students will work with a variety of genres: documentaries,		AVT 658	Special Topics in Audiovisual Trans
	interviews, cartoons, movies.			This course will take on new topics we by the program.
AVT 636	Intersensory Translation for Access	3 credits		
	In this course, students will refine their understanding of international norms in SDH and AD to consider their applicability to the Arab context. Students will also address AVT for access as transadaptation, in which multimodal communication strategies and multiformat materials are used to reinforce multisensory engagement with knowledge and culture. Students will also interact with local stakeholders in cultural settings, as well as in organizations working with people with special needs towards the development of collaborative projects.		AVT 659	Introduction to Audiovisual Translat This is a largely practical course whi techniques of various modes of aud subtitling, dubbing and accessibility formal and discursive features of the constraints, synchronization, verbal will be encouraged to analyze how the translation function as a form of inte- inter-linguistic mediation and reflect

the most appropriate strategies.

al Translation

to write their thesis, whether research- or II they have learned in previous courses in areas of research in Audiovisual esigning research projects, reviewing the proposals. They will also learn the skills anslation commentaries for the purposes lesis that consists of a translation -informed and evidence-based analysis.

ial skills acquired previously to a more nee in a wider range of genres, as well c challenges. Students will develop her and learn to work with the specific re current in the Arabic-speaking world. ed to reflect critically on prevailing n which the market can be induced to

27 and extends the skills acquired to also introducing students to the actual synchronized revoiced AV products. elex translation and adaptation tasks, f cross-cultural issues, such as the to language. Students will also learn dubbing.

ranslation

pics with specific aims as required

nslation

This is a largely practical course which introduces students to the techniques of various modes of audiovisual translation, including subtitling, dubbing and accessibility. Students will be introduced to the formal and discursive features of these modes: the temporal and spatial constraints, synchronization, verbal and non-verbal cues, etc. Students will be encouraged to analyze how these branches of audiovisual translation function as a form of inter-semiotic communication and inter-linguistic mediation and reflect on the implications of choosing

3 credits

3 credits

3 credits

3 credits

AVT 691	Internship The Internship aims to help develop HSS MA student's professional competence and understanding of the translation industry in a structured period of practical-work based learning.	3 credits
AVT 695	Master's Thesis Hours	0-6 credits
CHN 211	Chinese Beginner 1 There are two main pillars of this beginner 1 course: the pinyin system for pronunciation and the basic radicals for recognizing the most frequently used Chinese characters. Students are to practice pinyin until they can record what they hear in Chinese and turn them into characters in a machine-assisted application for recognition. In this regard, mastering basic radicals help students choose right words. The main goal of the course is to lay a solid foundation for further Chinese learning.	3 credits
CHN 212	Chinese Beginner 2 In this course, students will expand vocabulary, acquire basic sentence structures and patterns, and learn new expressions and grammatical points through repeating the key words in the texts and applying them to communicative situations. The course is designed for students to recognize more Chinese characters and their related vocabulary. Social media such as WeChat and WhatsApp are used to input pinyin and then choose targeted words, in order to increase student's recognition speed and accuracy of Chinese characters.	3 credits
DHS 621	Approaches to Digital Humanities This course prepares students to develop a broad understanding of the theories, concepts, debates and impacts of digital culture. The course reflects the emerging discourses of digital humanities (incl. heritage). Students will be introduced to key debates and contemporary issues. The course will also expand the theory to the exploration of the concrete	3 credits

impact of the digitization onto different dimensions and sectors of

society such as, but not limited to: women, e-health, online media

and music, data, literature, etc.

DHS 622 Digital Communication and Media practices of the media industry. This course will examine both **DHS 623** Methods in Digital Humanities

DHS 651

DHS 652

Students can produce a research-based thesis or a project-based a publishable article.

Emerging Technologies and Applications

There is now widespread recognition that digital technologies have profoundly changed the way we produce content, share information, interact with each other's, develop and commercialize products and services, create knowledge or financial value, while defining new environments for these functions to flourish. The course discovers how political, social, economic, financial powers and knowledge are reshaped in our contemporary digital era. The course introduces students to the need of digitalization, continuously developing platforms and the fundamental knowledge of emerging new realities.

Digital Publishing and Design

This course provides students with a comprehensive foundation of layout and design principles to integrate digital media essential for effective print-based and web based business publications. The students will learn the graphic terminology, type specification, and evolution of the printed piece from concept to final printed project. An overview of the industry standard software will be introduced to understand the basics of web pages creation, page layout and design and various methods of reproduction for print and electronic delivery.

3 credits

Digital communication has transformed many aspects of representation and broadcasting, challenging existing roles, methodologies and theoretical and practical aspects of digital media and communication. Through real-life examples and case studies focusing on the Middle East, students will explore the impact of user-generated content and social media, the role of digital cultures in political transformations, the effect of mass digitization, and challenges in digital publishing.

Designed like an independent study, this course supports students in their endeavor to conduct research in the field of Digital Humanities. thesis of up to 15,000 words or equivalent. The thesis should showcase the student's ability to collect/assess data, build an argument; and critically apply the main theories in their area of study. The thesis is an opportunity for students to gain the requisite skills necessary for writing

3 credits

3 credits

DHS 654	Civil Society and Digital Activism	3 credits	DHS 658	Digital Resources in the Humanities
	This course aims to study how the cyberspace theory and new media have empowered societies to impose change and development on regional or global scales in a variety of domains. The course introduces the students to the effective role of social media ranging from websites, social networking apps, and collaborative platforms to promote and state positions toward theoretical fields, such as: empowerment of minorities, racism, feminism, global crises, climate and environmental change, emerging industries, peer-to-peer production, urbanism, and			This course explores a broad spectrum humanities engage with a variety of dig to choose the most appropriate techno in different situations in order to develo of digital humanities projects, as well a tools and methods involved in creating more thoughtful.
	self-development.		DHS 659	Digital Innovation and Transformation
DHS 655	Exploring Digital Heritage Methods This course addresses the needs of a growing cultural heritage industry; it provides opportunities to develop skills in which the material or tangible objects and digital culture relate. The course focuses on a wide spectrum of topics, starting with archaeology, arts, museum collections, historical data archiving, and built heritage. This course explores the techniques of how the tangible heritage is represented, transmitted and	3 credits		This course provides analytical tools ar gaining a sound understanding of the p developments and knowledge producti industries. Students will appreciate the a target and the way knowledge manag innovation. Students will see knowledg commodity can be managed.
	perceived in the digital world.		DHS 660	Digital Disinformation and Propaganda and North Africa
DHS 656	Introduction to Human Language Technologies This course is an introduction to the most important problems involved in Human Language Technologies (HLT) with a focus on the Arabic language. We will present the techniques and resources used and the theories they are based on. The course includes an overview of Natural Language applications. We will also explore the relationship between language and technology including language learning and speech technologies. Topics include machine translation, automatic speech recognition and generation, dialog systems as well as language technologies.	3 credits		This module combines practical and ac no prior knowledge of the region to eng on the ideas of digital propaganda, PR, for those interested in being able to tac media distortions, and information heg and the wider global context. The cours discussions/seminars and student pres for interdisciplinary pathways, and inco media and politics.
5110 (57			DHS 661	Digital Writing
DHS 657	Coding for Humanities This course will provide students the technical skills necessary to conduct quantitative research in digital humanities and societies. In particular, this course will introduce students to the basic coding skills needed to be considered in any professional career nowadays. As an introductory programming course, we will introduce common practices to extract and collect raw data from a variety of digital sources, to organize, clean, explore, analyze, visualize and interpret such data, and to infer sensible information and draw conclusions.	3 credits		The course is called Digital Writing bec art technology that allows students to i in terms of topical structure and the va sentiment, emotion, mood, register cue to embellish the topical structure.

a broad spectrum of perspectives on the digital th a variety of digital humanities tools in order propriate technology to facilitate different work in order to develop familiarity with a range rojects, as well as the ability to evaluate the olved in creating those projects and become

Transformation

analytical tools and frameworks to help students standing of the potential and place of new wledge production in social media and digital ill appreciate the importance of innovation as nowledge management will contribute to this vill see knowledge as a commodity and how this

and Propaganda in the Middle East

practical and academic skills for students with the region to engage with contemporary debate propaganda, PR, and surveillance. It is designed being able to tackle concerns about fake news, I information hegemony in both the Middle East ontext. The course consists of lectures, class and student presentations. The module is suitable thways, and incorporate current debates in both

igital Writing because it will employ state of the ows students to investigate their writing patterns ucture and the various textural gestures (stance, lood, register cues, genres cues) writers can use

3 credits

3 credits

DHS 669	Independent Research Project The Digital Humanities and Societies program requires students to either undertake an internship or an independent research project. This course allows students to explore their specific research interests within a relative field through a research agenda. The student will work closely with academic advisor and supervisor to implement this project within a given time period. The project may be capitalized on for the purposes of the thesis.	3 credits	HSS 700	Explorations in Global Humanities This course examines the humanities interconnections. Using historical, lite approaches to cultural criticism, rece major traditions of critical theory, inc feminism, psychoanalysis, phenome the Frankfurt School. Concerned with appearances, these epistemological critical charge embedded in the notic
DHS 691	Internship The Digital Humanities and Societies program requires students to either undertake an internship or an independent research project. This course allows students to explore their specific research interests within a relative field through a research agenda. The student will work closely with academic advisor and supervisor to implement this project within a given time period. The project may be capitalized on for the purposes of the thesis.	3 credits	HSS 706	Doctoral Independent Study This course focuses on the student's exploration of the literature review. U supervisor, Students are expected to thesis proposal of 8000 words (exclu include the following sections: The b rationale and motivation for their pro theoretical framework and an initial I
DHS 695	Master's Thesis Hours	0-6 credits	HSS 720	Explorations in Interdisciplinarity
FREN 211	French Beginner 1 The French Beginner 1 course is designed to provide learners with sufficient linguistic competencies to understand and use daily expressions frequently used in any part of the French-speaking world with the goal of satisfying immediate needs. This course corresponds to A1.1 of the Common European Framework of Reference for Languages (CEFR) and Novice Low-Mid on the scale of the American Council of Teaching Foreign Languages.	3 credits		This course examines the ways in whe practiced in the Humanities and Soci- exposed to research projects underta- of knowledge including but not limited intercultural communication, translat heritage, women and gender studies â€" and yet inheriting from traditional the Humanities and Social Sciences law, sociology, political science, etc.) towards mapping the different types
FREN 212	French Beginner 2 This French Beginner 2 course continues the Beginner series and builds upon French Beginner 1. It is designed to provide learners with the linguistic competencies to understand and use a wider range of daily expressions frequently used in any part of the French-speaking world with the goal of satisfying immediate needs. This course corresponds to	3 credits		tension with knowledge specialization disciplinarity). Exposure and discuss will equip students to critically reflect of interdisciplinarity in the endeavor and the Humanities and Social Scien
	A1.2 of the Common European Framework of Reference for Languages (CEFR) and to Novice High on the scale of the American Council of Teaching Foreign Languages (ACTFL).		HSS 890	Dissertation

numanities from the standpoint of global storical, literary, linguistic, and philosophical cism, reception and production, we study the sheory, including semiology, deconstruction, phenomenology, the Annals School and erned with how the world gives itself to nological methods allow us to tease out the n the notion of culture itself.

e student's research proposal and an initial e review. Under the supervision of their spected to finalize the writing of an extended ords (excluding the references) that will ons: The background of the research, the or their proposed research, the proposed an initial literature review section.

ways in which interdisciplinarity is s and Social Sciences. Students will be cts undertaken across contemporary fields t not limited to the digital humanities, on, translation and interpreting, cultural er studies, sciences and technology studies traditional disciplines that have founded Sciences (philosophy, literature, linguistics, ence, etc.). Class discussion will be tailored rent types of knowledge integration and their ecialization (mono-, anti-, multi-, inter-, transnd discussion, the two pillars of this course, cally reflect on the potentials and limitations endeavor to bridge the gap between Society ocial Sciences. 3 credits

3 credits

0-9 credits

ICC 600	Foundations, Critical Approaches and Future Challenges in Intercultural Communication This course introduces scholarly approaches to the study of intercultural communication that have been developed since the inception of this field of enquiry (including religion, ethnicity, race, nationality and ethics). Through discriminating, critical engagement with theory and its scholarly and practical applications, students will think critically and reflectively about the complexity and implications of the choices that intercultural communication actors have to make across settings and will be encouraged to identify the key challenges that lie ahead for intercultural communication in our multicultural societies.	3 credits	ICC 604	Discourse and Communication Analysis This course engages students in examining basic concepts of stylistics and discourse a communication contexts, text types and ge to enhance students' competence in analyz grammatical, stylistic and rhetorical feature communicative situations. Students will ga the necessary skills to apply, the different to discourse analysis in various social and cut
			100 003	Consulting & Management
ICC 601	Research in Intercultural Communication: Tools and Methods This course prepares students to conduct research in Intercultural Communication with the necessary research methods and tools provided by Humanities and Social Sciences. Epistemological foundations of qualitative and quantitative research and major ethical and political issues in research will be provided. Linkages between broader theoretical and conceptual issues and alternative hypotheses will be provided to organize knowledge, construct ideas and present various arguments. Hands-on experiences for research design, data collection and analysis, and writing of research findings will be provided.	3 credits		This course prepares students to work as in actors in the profit and non-profit sectors, w on business where intercultural communica the challenges posed by cultural difference organizational communication, public relati be introduced to the possible difficulties po in organizations, and will acquire the neces management skills to engage in intercultura in diverse teams.
			ICC 621	Intercultural Communication in Digital Med
ICC 602	Managing Communication in Intercultural Settings This course introduces students to the challenge of managing communication across national, religious, occupational, gender boundaries in different intercultural settings and to equip them to develop the right skills and mindset to approach intercultural communication.	3 credits		This course will develop media literacy to a development and sharing on digital and so Research on content creation and its impac in Qatar will be core. It will offer opportuniti fit for communication processes on Qatari Interdisciplinary reflection on the intercultu will be enhanced in the framework of digita e-applications to critically approaching ider
ICC 603	Intercultural Communication in the Community:	3 credits		intercultural communication.
	Mediation & Interpreting This course prepares students to work as intercultural communication actors in community settings, with a particular focus on health care, social services, non-governmental settings, where intercultural communication is key to avoid cultural, linguistic and systemic discrimination. Students will be introduced to the ethical questions raised by intercultural communication in these settings, to the main differences between the role of mediators and interpreters (the two main intercultural communication-related occupations in community settings) and will extensively practice their intercultural mediation and interpreting skills.		ICC 622	Intercultural Conflict Management This course will reflect on the challenges of cross-border communication between differ on the communication processes that can conflict situations between different culture will be analyzed. It will explore conflict pror interactions, and design methods for succe conflict situations. As a case study, it will a management strategies in multicultural bus the methods of efficient problem solving.

lents in examining and applying the s and discourse analysis to different text types and genres. The course is intended petence in analyzing and manipulating rhetorical features of language in multimodal . Students will gain insight into, and develop oly, the different tools and approaches to ous social and cultural settings.

tion in Organizations:

lents to work as intercultural communication n-profit sectors, with a particular focus Itural communication is key to face cultural difference to Human Resources, ation, public relations processes. Students will ible difficulties posed by cultural differences acquire the necessary consulting and age in intercultural negotiations and

tion in Digital Media

nedia literacy to access and evaluate content on digital and social media platforms. tion and its impact on intercultural settings l offer opportunities for app development, cesses on Qatari and MENA platforms. on the intercultural aspects of digital media amework of digital content creation and approaching identity, acculturation and

agement

the challenges of today's increased global tion between different cultures and specifically ocesses that can be used during interactions in en different cultures. Communication strategies olore conflict prone dimensions in intercultural nethods for successful communication in ase study, it will analyze and test cultural n multicultural business environments and

3 credits

3 credits

3 credits

ICC 623	Mediation Interpreting in Healthcare	3 credits	ME 613	Social, Economic and Develo
	This course is offered in the format of the Bridging the Gap Medical			This course examines the m
	Interpreters training offered by WCM-Q and is designed by the US Public			theory and economic develo
	Health Services to improve access to healthcare. To meet the need of			made on social and econom
	Qatar's diversified population and to conform to accreditation standards, this WCM-Q based course offers Interpreter skills, Medical Interpreters			evolution of different school The approach of the course
	Code of Ethics, Role of Medical Mediator Interpreters in healthcare			from sociology, economics,
	settings, Culture and its impact on interpreting, Communication skills			models and methodologies t
	and appropriate advocacy, and Medical terminology.			conceptualized with respect
				social power and developme
ICC 624	Intercultural Competence in Healthcare	3 credits		
	At the end of this joint TISD-WCM-Q course, students will be able to		SPAN 211	Spanish Beginner 1
	value the impact of diversity in healthcare particularly in Qatar. Define in			The Beginner 1 Spanish cou
	contemporary terms: culture, cultural competence, patient-centered care			with no previous experience
	and cultural humility. Differentiate between cultural competence and			course are to help students of
	patient-centered care. Describe how culture influences both patients			Spanish through the elemen
	and provider's interactions and expectations. Recognize the effect of			skills (listening, speaking, re-
	bias and stereotyping on healthcare quality and describe strategies to reduce their effect.			and critically examining cult everyday life in Spanish-spea
				of instruction.
ICC 625	Diversity, Inclusion and Access	3 credits		
	The widespread notion of equality of opportunities requires that the		SPAN 212	Spanish Beginner 2
	issue of discrimination and inclusion be studied so as to find solutions			This course continues the Be
	for barriers that hinder people from full access to basic spheres of life,			Beginner 1. The main object
	such as healthcare, education, employment, information, culture and/			develop effective communic
	or entertainment. This course aims at introducing students to issues of			elementary development of
	Diversity, Inclusion and Accessibility from the slant of communication			speaking, reading and writin
	and (dis)ability, leading them to develop innovative communication			instructions about how to ge
	strategies to enhance equitable access solutions in diverse contexts.			for and tell the time and talk
				and how often they do some
ME 611	History, Politics and Cultures of the Middle East	3 credits		and talk about recently past
	This course takes a cultural and historical approach to politics of the		00 (00	Thisking and Decision late
	Middle East; it investigates the nature of political authority and the		SS 600	Thinking and Practicing Inte and the Social Sciences
	complex relationship between religion, traditions, social movements,			
	class structures, and the challenges Middle East societies faced from			This course will introduce st
	colonialism and globalization. The course provides a critical appraisal of normative paradigms and approaches through which the Middle East			notion of interdisciplinarity a theorized in Interdisciplinarit
	has been studied, the narratives covering its history, how knowledge has			Digital and Translation Studi
	has been studied, the narratives covering its history, now knowledge lids			Digital and Hansiation Studi

been organized, and the repercussions of particular approaches and

theories.

3 credits

elopment Theory

major theoretical paradigms in critical social elopment. It gives focus to assumptions omic development, and examines the ools of thought and theoretical constructs. se is interdisciplinary, combining insights es, political science and history. It applies es through which historical processes can be ect to the ideological frameworks that guide ment policy.

ourse is designed for the beginner students ce in Spanish. The main objectives of this ts develop effective communication skills in entary development of the four basic language reading and writing), while focusing on ultural aspects, values and other aspects of beaking nations. Spanish will be the language

Beginner series and builds upon Spanish ectives of this course are to help students nication skills in Spanish through the of the four basic language skills (listening, ting. During the course, students learn to give get somewhere and describe places; ask alk about schedules; talk about daily routines mething; talk about tastes and preferences, st actions.

nterdisciplinarity in the Humanities

This course will introduce students to the hackneyed and complex notion of interdisciplinarity and to the ways in which it has been theorized in Interdisciplinarity Studies and practiced in Women, Digital and Translation Studies. It will invite students to develop their interdisciplinary skills in critical and reflexive ways. 3 credits

3 credits

SS 612	Research Methods	3 credits	TR 613	Arabic Stylistics for Translators
	This course prepares students embarking on social science research with the necessary research methods and techniques to conduct, evaluate and communicate research. The course examines the epistemological foundations of qualitative and quantitative research, in addition to ethical and political factors in research. It familiarizes students with research design, research methods and data collection. It also introduces linkages between broader theoretical and conceptual issues and alternative hypothesis through which to organize knowledge, construct ideas and present various arguments.			This course engages students in ex and stylistics of Arabic discourse in enhance student's competence in r stylistic and rhetorical features of r Students are taught to compose ar Through practical exercises, studer analytical tools and use relevant te Oral communication is also practic formal presentations.
SS 662	The Gulf States and the International Order This course analyses the contemporary Gulf States from the perspectives of politics, political sociology, economics and international relations. It seeks to locate the states in an international context in order to identify and evaluate the manner in which their policies have evolved. This course will seek to achieve this through an interdisciplinary analysis of the subject manner. It gives focus to the challenges faced and policy responses. The course will conclude with an examination of the	3 credits	TSD 621	Current Trends in Translation Stud This course introduces scholarly ap that have been developed over the think critically and reflectively about interpreters. They will engage with the choices that translators have to
	challenges of economic, political and security reform in the Gulf States.		TSD 623	Specialized Translation
TR 611	Introduction to Translation Studies This course introduces students to the main approaches that have developed in the field of Translation Studies. Beginning with an overview of pre-20thC translation theory, the course follows a chronological trajectory of the development of the major theories in the field, including theories of equivalence, translation products and processes, functionalist approaches, discourse and register analysis, systems theories, norm theory and descriptive translation studies. Through discriminating, critical engagement with theory and its scholarly and practical applications, this course invites students to think critically and	3 credits		This is a practice-oriented course in a professional career in the translat freelance translators, working with deals with various types of instituti organizations. Using their linguistic insights gained from other courses institutional translation topics, prep glossaries and produce profession generated by IGOs and NGOs.
	reflectively about the complexity and implications of the choices they have to make as translators and scholars.		TSD 624	Translation Technologies
TR 612	Pragmatic Translation Pragmatic Translation is a foundation practice-oriented course designed for students with little or no background in translation. It aims at developing in students the basic skills and knowledge to perform translation tasks to the required standard in this class, in classes running in parallel and later in other more advanced classes. Translation practical work focuses on four text types: technical, financial, literary	3 credits		This is a practical course that intro language technology tools with a fe These will range from widely-used standard SDL TRADOS (Getting Sta manage translation memories and integrate the use of corpora into th reflect on the role of machine trans

and media (audiovisual) texts. Both Arabic and English are used as languages of instruction, as appropriate. Analyzing and discussing Arabic texts requires the use of Arabic, and the same holds for English.

3 credits

n examining and applying the grammar e in written and oral forms. It will in manipulating various grammatical, of Modern Standard Arabic (MSA). e and comprehend prose in MSA. dents will learn to apply relevant t textual conventions in their own writing. eticed in informal class discussion and

udies

y approaches to the study of translation he last two decades. Students will bout the community of translators and ith the complexity and implications of e to make on a daily basis.

e intended to prepare students for slation market, either as in-house or ith various IGO's and NGO's. The course tutional texts produced by multilingual stic skills and applying theoretical ses, students will be trained to research repare appropriate terminology onal translations of real source texts

troduces students to a selection of a focus on their professional practice. ed open access tools to the industry Started level). Students will create and nd terminological databases. They will their translation practice. They will also anslation and its application. 3 credits

3 credits

TSD 628	Terminology	3 credits	TSD 655	Literary Translation
	This course explains the basic principles of terminology and the use of term bases. The theoretical part discusses terminology theory, concepts, definitions, the structure of terminological records, ISO standards and the major international term base formats that are publicly available. It treats concept models and state-of-the-art software and it describes the way in which large translation services make use of term bases. The practical part consists of terminology software exercises (development and maintenance of term bases).			This course will cover the followin Features of literary texts: analysis literary translation; approaches to theater, fiction, speeches; translati figures of speech; culture, politics, variety: register, dialect, slang; usin tools & resources, publication. Cla Arabic and English.
TSD 645	Research Methods in Translation Studies	3 credits	TSD 656	Intercultural Translation
	This course builds on previous methodological and theoretical courses and equips you with the necessary knowledge to carry out your thesis in the second year, whether research- or practice-oriented. Through a review of the main areas of research and inquiry in Translation Studies (TS) and you will learn the principles of designing research projects, reviewing the literature and writing research proposals.			This course examines intercultura today. Studying translation in diffe the course highlights the significa enriching national languages, spre intellectual and political encounter Students are introduced to the cur and intercultural communication.
TSD 652	Commercial Translation	3 credits		of translation in the construction of representing/misrepresenting c
	This course equips students with the necessary skills for translating texts used in the commercial and business environment. Students will be introduced to styles, formats and functions of commercial texts and will develop methods for dealing with them. Special emphasis will be placed on the difficulties encountered in translating business texts, requiring specific skills and techniques. Contrastive features of commercial texts are examined and related to the translation process. The course also explores the importance of culture in commercial translation.		TSD 657	Legal Translation This course aims at providing stud in translating legal texts from Engl introduces students to the textual in various legal texts in Arabic and critical thinking and research skills legal translation quality assessme of legal terminology, text function, is part of culture).
TSD 653	Media Translation This is a practice-oriented course prepares students for a professional	3 credits		
	career in media translation. It deals with different forms, modes and genres of media texts, focusing in particular on political and economic texts. Students analyze and critically assess various media texts, including hard news reports, investigative reports, interviews,		TSD 658	Special Topics in Translation Stud This course will take on new topic by the program.
	editorialized commentaries, editorials and TV news scripts. Using linguistic skills and applying theoretical and practical insights, students will be trained to produce professional translations of texts generated by media outlets.		TSD 691	Internship The Internship aims to help develo competence and understanding of structured period of practical-work

3 credits

ving aspects of literary translation: sis & translation approaches; style in to translating literary genres: poetry, lating titles; translating metaphors and cs, ideology; the problem of linguistic using footnotes; the working translator: Class discussion is conducted in both

ural issues central to translation studies ifferent cultures and historical contexts, icant role that translators have played in preading religious creeds, and framing nters across linguistic communities. current theoretical debates on translation on. Special emphasis is placed on the role on of the foreign as a primary tool g cultural others.

tudents with extensive experience nglish into Arabic and vice versa. It ual and rhetorical standards adopted and English. It develops in students the kills needed to successfully deal with ment (revision), including the importance on, and intercultural contexts (since law

tudies

pics with specific aims as required

relop HSS MA student's professional g of the translation industry in a rork based learning. 3 credits

3 credits

TSD 695	Master's Thesis Hours	0-6 credits	WSD 652	Women, Law and Citizenship Designed to study the connectio
WSD 621	Introduction to Women and Gender Studies Providing an overview of core concepts, debates and developments in the field of women and gender studies, this course underscores shifting paradigms (e.g. from women to gender studies) in our theoretical understanding of the subject. Themes, such as intersectionality, the social construction of gender, transnationalism, solidarity, patriarchy, discrimination, empowerment, embodiment, performativity etc., are highlighted through an interdisciplinary framework that positions gender	3 credits		this course examines citizenship whether laws pertaining to wom It also questions whether gende economic or political forces. Wh natural and customary laws? Wh does context play in determining of liberation, equality and citizen
	within various power structures institutionalized in the media, political sphere, labor market and/or field of cultural production.		WSD 653	Gender and Digital Cultures This course investigates innovat pertaining to the digital realm. S
WSD 622	Women, Work and Economic Development in the Middle East This course evaluates economic development theories from a gender perspective focused on the role of women in the MENA region. Providing a critical overview of women in the workforce, the course questions the institutional context in which gender is articulated in the household sphere and in the labor market. The persistent gender gaps in labor force participation rates (against rising educational outcomes for women)	3 credits		digital human relationship platfo the impact of the latter on gende embodiment in real-life urban an will learn how digital technologie gender theories, provoke new fo and work to transform systems
	is also considered from a perspective which contrasts the modern discourse with its regional, historical antecedents.		WSD 655	Women, State and Modernity in Exploring the interrelations betw this course critically appraises th
WSD 623	Research Methods in Women's and Gender Studies This course will familiarize and equip students with research methods and skills relevant to women and gender studies. It focuses on qualitative methods, and draws from feminist approaches to science, epistemology and knowledge production. Students will receive training in re-search design, concepts, methods (interviews, participant observation, etc.), ethical requirements, critical writing skills. The course	3 credits		transformation in the status of A are given special consideration a relations in the region today. Eng in on the gendered legacies of c feminism; the debate on authent patriarchal bargains; and gender
	will enable students to evaluate different methods and assess their relevance to their own research projects. The course aims at developing a well-designed research proposal.		WSD 656	Family and Kinship in the Middle This course traces the history of modern to modern times. A com of kinship (tribes and clans) in th
WSD 651	The Anthropology of Gender in the Middle East Students are expected to analyze core themes characterizing the field, such as the honor and shame complex, Islamic feminism, relational selves, patriarchal bargains, kinship, etc. While focused on gender and women's issues in the Middle East, the subject will also be linked to the core developments in the field of anthropology, such as the shift from	3 credits		The impact of modernization, glo kinship institutions is also exam and the nuclear family. The cond gendered identities, reproduction and discussion.

neo-positivist to interpretive and reflex Feminist Perspective stances.

3 credits

etion between society, culture, and law, ship, women, gender and family law. It asks omen and gender can be universalized. Idered law is a product of cultural, What are the differences between positive, What is full legal equality and what role ing legal priorities? Do theories zenship meet practice?

vative gender theory perspectives . Studying social media, digital activism, atforms and sexuality, we consider or narratives, representation and and rural social environments. Students ogies challenge current understandings of forms of knowledge in the digital realm and so f gender oppression.

in the Arab World

etween women, the state and modernity, s the tensions surrounding the of Arab women. Modernity and nationhood on as the driving ideologies framing gender Engaging with the issues requires zooming f colonialism, nation-state building; state enticity; religious and secular movements; dered violence and war.

dle East

of the family in the Middle East, from preomparative lens is cast on dominant forms in their urban, rural and Bedouin settings. globalization and modern economies on amined in terms of the rise of the individual oncomitant discourse provoked on tion and sexuality is the focus of research 3 credits

3 credits

WSD 657	Women, Media and Communication	3 credits	WSD 661	Women in World History
	This course explores the intersection of media and feminist theory by investigating the portrayal of Arab women in both Middle Eastern and global media. Coverage of such topics as sex trafficking, rape, domestic violence, religion, and local/regional politics is analyzed alongside claims of the marginalization of feminine voices and narratives. Lastly, students will consider the role of women in producing media and the barriers they continue to face when entering media.			This course provides an overarchin ancient to the early-modern eras, ex fields of gender and identity studies students in understanding the critic and identity to historical world ever continue to impinge on the contem
WSD 658	Special Topics in Women Studies	3 credits	WSD 662	Women and Gender in the Literatur and North Africa
W3D 030	Introducing students to timely, innovative and cutting-edge topics, methods and theories in the field of Arab Women's Studies, this course is research-led. As such, its precise content will depend on the expertise of faculty and the research interests of students. The scope of research is thus wide, ranging from topical subjects, such as women's participation in the Arab revolutions, to pioneering feminist research methods, such as auto-ethnography, to state-of-the-art theoretical developments in the field of women and gender studies.	5 credits		This course explores various strand with a focus on Women's Studies a region. The aim is to integrate femi and cinematic works produced mai in this region (including a few films to investigate the cultural, social an creative expressions, and the exten issues at stake in their societies.
WSD 659	Independent Research Project The Women, Society and Development program requires students to either undertake an internship or an independent research project. This course allows students to explore their specific research interests within a relative field through a research agenda. The student will work closely with academic advisor and supervisor to implement this project within a given time period. The project may be capitalized on for the purposes of	3 credits	WSD 691	Internship The Women, Society and Developm either undertake an internship of do This internship course is the opport setting, and also to gain experience on issues relating to the degree pro-
	the thesis.		WSD 695	Master's Thesis Hours
WSD 660	Women in Comparative World Religions	3 credits		
	Providing an introduction to the academic and comparative study of the world's religious traditions through gendered analysis, this course			

engages in a thematic examination of the beliefs, practices, institutions, and cultural expressions of the World major Religions. It will address how sacred power, sacred story, ritual, sacred space and time, religious experience, religious ethics and morality shape women's lives. What is the relationship between gender, religion, politics, and social conflict

across and between religious traditions?

3 credits

arching survey of world history, from the ras, exploring several key themes in the studies. The goal of the course is to assist e critical significance of gender, sexuality, d events and to the ways in which they ontemporary world.

erature and Cinema of the Middle East

strands of feminist conceptual frameworks dies and Feminist Studies in the MENA e feminist theory with a selection of literary ed mainly by women writers and filmmakers films made by male filmmakers), in order cial and political significance of their extent to which these works address

elopment program requires students to o of do an independent research project. opportunity to skills within a workplace rience in an organization, which is focused ee program's scope. 3 credits

3 credits

0-6 credits



College of Law

The College of Law is a world-class provider of legal education with an international reputation for quality and innovation in teaching and research.

Owing to its position at a global crossroads in terms of culture, business and geopolitics, Qatar is at the heart of a region that requires leaders who can manage multi-faceted relationships that span different legal systems and who have a command of a wide range of skills. College of Law addresses this need by offering four academic degrees to graduate students from a range of disciplines in the skills needed to understand the diverse legal systems – civil, common, and Sharia – that inform Qatari law and that govern complex events and transactions, both in the region and throughout the globe.

For more information, **CLICK HERE**

Academic Programs

Juris Doctor

The Juris Doctor (JD) degree is a unique model of graduate legal education designed to meet the needs of Qatar and the Middle East. The JD is the first-of-its-kind graduate law degree in the MENA region; courses are taught in English, so that graduates are prepared to work in the international legal market.

A JD differs from the undergraduate law degree in that it targets individuals who already hold an undergraduate degree, which can be in any subject, including law. The JD education builds on the student's previous expertise and experience. JD students may pursue expertise in law that is aligned with their previous degree or move in a completely different direction.

For more information, CLICK HERE

LL.M. in International Economic and Business Law

The LL.M. in International Economic and Business Law is a one-year program designed for recent or established university graduates in law. It is ideal for lawyers working or aspiring to work in international business, private practice, academia, government, and the judiciary.

For more information, CLICK HERE

LL.M. in International Law and Foreign Affairs

The LL.M. in International Law and Foreign Affairs is a one-year program that offers world-class academic and professional training in international law and foreign policy decision-making on pressing global challenges facing today's world.

For more information, **CLICK HERE**

Doctor of Juridical Science

The Doctor of Juridical Science (S.J.D.) is the College of Law's most advanced law degree. The program is one of the first full-fledged researchintensive doctorate degrees in law in the MENA region, and one of the few of its kind outside of the United States. Dedicated to scholarship and teaching, the program aspires to create a vibrant community of legal scholars, who will assume teaching positions in universities and government positions in institutions in Qatar, the MENA region, and beyond.

For more information, CLICK HERE



Study Plans

Juris Doctor

Minimum hours required to complete program

Core Courses		82 CH
LAW 601	Law and Global Legal Systems	2
LAW 652	Injury Law/ Torts	4
LAW 651	Contract Law	4
LAW 667	Legal Analysis, Writing, and Research I	2
LAW 655	Business Associations	4
LAW 653	Constitutional Law	4
LAW 654	International Law	4
LAW 668	Legal Analysis, Writing, and Research II	2
LAW 650	Property Law	4
LAW 659	Commercial Law	4
LAW 665	Administrative Law	4
LAW 669	Legal Analysis, Writing, and Research III	2
LAW 658	Civil Procedure	2
LAW 675	Ethics & Professional Responsibility	2
LAW 678	Dispute Resolution (Negotiation and Trial Advocacy)	3
LAW 666	Criminal Law & Procedure	4
LAW 676	Introduction to the Legal Foundations of the Global Economy	3
LAW 679	Entrepreneurship Law	4
LAW 752	Construction & Infrastructure Development	3
LAW 750	Energy Law	3
LAW 753	Healthcare Law	3
LAW 756	Advanced Dispute Resolution	3
LAW 751	Global Economic Law and Governance	3
LAW 754	Advanced Human Rights	3
LAW 757	Environmental Law	3

LAW 761	Law, Technology and Intellectual Property	3
or		
LAW 763	Law, Technology and Intellectual Property I	2
LAW 764	Law, Technology and Intellectual Property II	1
Elective Courses		3 CH
LAW 765	Media and Cultural Law	3
LAW 760	Sports Law	3
Additional Offerings		2 CH
LAW 706	Independent Study	2

LL.M. in International Economic and Business Law

Minimum hours required to complete program

Core Courses		14 CH
LAW 603	Global Legal Ethics	3
LAW 605	Research Methods in Law	3
LAW 651	Contract Law	4
LAW 679	Entrepreneurship Law	4
Elective Courses		12 CH
LAW 659	Commercial Law	4
LAW 750	Energy Law	3
LAW 752	Construction & Infrastructure Development	3
LAW 756	Advanced Dispute Resolution	3
LAW 751	Global Economic Law and Governance	3
Or		
LAW 676	Introduction to the Legal Foundations of the Global Economy	3
IFI 605	Islamic Financial Contracts	3
LAW 611	Introduction to International Law and Foreign Affairs	3
Thesis		6 CH
LAW 695	LL.M. Thesis	0-6
Additional Offerings		2 CH
LAW 706	Independent Study	2
Non-Course Requirem	ents	0 CH
699	Thesis Defense	0

LL.M. in International Law and Foreign Affairs

Minimum hours required to complete program

Core Courses		20 CH
LAW 611	Introduction to International Law and Foreign Affairs	3
LAW 603	Global Legal Ethics	3
LAW 605	Research Methods in Law	3
LAW 654	International Law	4
LAW 665	Administrative Law	4
LAW 754	Advanced Human Rights	3
Elective Courses		6 CH
LAW 750	Energy Law	3
LAW 751	Global Economic Law and Governance	3
LAW 752	Construction & Infrastructure Development	3
LAW 753	Healthcare Law	3
LAW 756	Advanced Dispute Resolution	3
LAW 765	Media and Cultural Law	3
LAW 760	Sports Law	3
LAW 762	International Criminal Law	3
LAW 757	Environmental Law	3
Thesis		6 CH
LAW 695	LL.M. Thesis	0-6
Additional Offerings		2 CH
LAW 706	Independent Study	2
Non-Course Requireme	ents	0 CH
699	Thesis Defense	0

32 CH

Doctor of Juridical Science

Minimum hours required to complete program

Core Courses		10 CH
LAW 800	S.J.D. Colloquium (Taken Twice)	2
LAW 805	Advanced Research Methods in Law	3
LAW 810	Advanced Global Legal Ethics	3
Thesis		44 CH
LAW 890	Dissertation Hours	44
Non-Course Rec	quirements	0 CH
790	Doctoral Qualifying Exam	0
799	Candidacy Exam	0
899	Dissertation Defense	0



Course Descriptions

LAW 600	Colloquium	0 Credits
	Outreach initiative, where influential guest speakers come to speak to our students and a larger Education City audience.	
LAW 601	Law and Global Legal Systems This course examines the foundations of the law and the formation of legal systems across the world. It focuses on key features of the three major legal traditions (civil, common, and Sharia), and basic elements of the international legal order. The course provides students with the intellectual capabilities that allow them to understand the nature of the Qatari legal system, as well as to reflect on the interaction of legal	2 Credits
LAW 603	systems and traditions at the international level. Global Legal Ethics This course introduces students to ethical issues in the global practice	3 Credits
	of law. The course starts with a general introduction to different ethical theories and then situates these theories in different fields of legal practice to illustrate the dilemmas faced by legal practitioners, the approaches that may be adopted and their implications. The fields of legal practice covered will include international commerce, trade and investment, international development, international diplomacy, international human rights and humanitarianism, international dispute resolution and academia.	
LAW 605	Research Methods in Law The course is designed to provide students with the research skills required for graduate studies in law. The course serves three main functions: (a) help LL.M. students develop skills in legal writing as well as research and methodology; (b) expose students to the diversity of and intellectual challenges involved in good legal scholarship, with a focus on the relationship between law and the other social sciences; (c) serve as a forum of peers in which LL.M. students can discuss the methodological challenges involved in their own research.	3 Credits
LAW 611	Introduction to International Law and Foreign Affairs The course aims to provide an overview of international law in the context of major theoretical traditions of world politics and international relations as well as case studies. It sets out the context, mechanisms and sources of international law and then goes on to focus on the basic concepts and questions, major scholarly traditions, as well as case studies in the study of international politics and foreign affairs. The course covers mainstream and non-mainstream approaches to international relations and foreign affairs as well as case studies, including ones focused on the Middle East, and examines how they shape international law.	3 Credits

LAW 650

LAW 651

LAW 652

LAW 653

LAW 654

tenant relations, sale of land, recordation of property interests, and governmental regulation of land use.

Contract Law

Property Law

This course examines key issues in contract formation, interpretation, legal capacity, formalities, good faith, gap filling, defect of consent, prohibited contracts, damages and other forms remedies, termination, rights of third parties, as well as elements of private international law of contracts. All topics are explored from the perspective of key civil law jurisdictions, English common law and Qatari law. In addition, contract law is viewed from its transnational lens, particularly the Convention on the International Sale of Goods and the UNIDROIT Principles on International Commercial Contracts.

Injury Law/ Torts

This course provides an introduction to the way common law jurisdictions deal with injuries to persons and property due to civil wrongs. The principal focus is on intentional torts, the tort of negligence, strict liability and vicarious liability. You will identify the remedies available to those who have been harmed and the defences available to those accused.

Constitutional Law

Constitutional Design addresses the foundations of the state. The course discusses different constitutional models and the role of the different actors within those different constitutional designs. After a general introduction into constitutional theory the theories are tested and cemented by exploring the role of human rights in different constitutional settings.

International Law

This course provides students with an introduction to law in its global context in this age of trans-national and inter-jurisdictional practice, with particular focus on public international law and its significance to Qatar. It will cover areas such as the use of force, international legal personality, the formation of states, the law of international organizations, the relationship between domestic and international law, the law of immunities, state responsibility and other areas of fundamental importance in the relationship between international actors.

4 Credits

This course addresses the law of real property. Students will assess the historical and theoretical basis for protecting ownership rights and analyze problems relating to division of ownership interests, landlord/

4 Credits

4 Credits

4 Credits

Business Associations	4 Credits	LAW 667	Logal Analysis Writing and Bassarch L
This course introduces students to the different forms of business entities, including general and limited partnerships, limited liability partnerships, limited liability companies, and corporations. It examines both the common law and select regulatory codes regarding these forms of business entities, with a special focus on corporate governance and fiduciary duties of care and loyalty, as well as the important issues of policy that surround the regulation of business entities.	4 Credits	LAW 007	Legal Analysis, Writing and Research I This course introduces the skill of predict legal question into its component parts, a will introduce students to interpreting judi out legal research. It is the foundational of analysis and research and helps students learning in all of the first-year courses
		LAW 668	Legal Analysis, Writing and Research II
Civil Procedure The course will examine law regulating civil litigation in common law and civil law systems. Students will assess the jurisdiction of courts, selection of venue, and choice of law.	2 Credits		This course introduces the skill of transac evaluate client needs and goals while pre transactions. Introducing students to the arise in these transactions, in order to avo It builds on the predictive methodologies
Commercial Law	4 Credits		
This course addresses advanced topics in business law. It will cover the comparative law of corporate control transactions including mergers and acquisitions, hostile takeovers, and leveraged buyouts. The course also introduces students to issues in commercial law and transactions that business entities utilize.		LAW 669	Legal Analysis, Writing and Research III This course introduces the skill of persua turning a dispute record or predictive ana an argumentative/ persuasive document to rule in the client's favour. It builds on th methodologies developed in LAWR I and
Administrative Law	4 Credits		complex legal research skills.
This course addresses the function of law within the administrative process by taking a comparative perspective on the administrative state within civil and common law systems. The course will assess the goals of the administrative process, rule-making, and the structure of the regulatory state. Particular attention will be given to administrative agencies, judicial review, public inquiries and commissions, and the role of an ombudsman accountability.		LAW 675	Ethics and Professional Responsibility This course seeks to strengthen the abilit analyze and appropriately respond to som and social challenges that confront mana with a particular emphasis on the context enterprises. It also will introduce students is particular to lawyers. Among the topics
Criminal Law & Procedure	4 Credits		leadership and organizational culture, cor conflicts of interest and confidentiality, ar
 The course will introduce students to the fundamental concepts defining criminal law and procedure. All topics will be covered from a comparative perspective, examining wherever possible common, civil, and sharia law. The course will be divided into three units: the general theory of crime and punishment; the causes of permissibility, such as the legitimate defense, the use of authority and the right of exercising some activities; the general theory of punishment. 		LAW 676	Introduction to the Legal Foundations of The course offers an overview of the lega economy from an international public and The course examines the key aspects of t regulation of foreign business transaction as well as the resolution of the disputes a trade and investment activity. It moreover of international taxation, and how it can b international development.
		entities, including general and limited partnerships, limited liability partnerships, limited liability companies, and corporations. It examines both the common law and select regulatory codes regarding these forms of business entities, with a special focus on corporate governance and folcioary duties of care and loyalty, as well as the important issues of policy that surround the regulation of business entities. Civi Procedur 2 C Credits The course will examine law regulating civil litigation in common law and civil law systems. Students will assess the jurisdiction of courts, selection of venue, and choice of law. Commercial Law 4 C Credits This course addresses advanced topics in business law. It will cover the comparative law of corporate control transactions including mergers and acquisitions, hostile takeovers, and leveraged buyouts. The course also introduces students to issues in commercial law and transactions that business entities utilize. Administrative Law 1 Corporate control of law within the administrative process by taking a comparative perspective on the administrative process by taking a comparative perspective on the administrative gencies, judicial review, public inquiries and commissions, and the role of an ombudsman accountability. Circinal Law 6 Procedur 4 Corporate is a commissions, and the role of an ombudsman accountability. Circinal Law 6 Procedure 4 It topics will be covered from a comparative perspective, examining wherever possible common, civil, and sharia law. The course will be divided into three units: I he general theory of cime and puncishment; He general theory of punishment. The course of punishment. The course concludes with discussions on the general theory of criminal	entities, including general and limited partnerships, limited liability pertnerships, limited liability companies, and corporations. It examines both the common hav and select regulatory codes regarding these forms of business entities, with a special focus on corporate governance and fduciary duites of care and loyaly, as well as the important issues of policy that surround the regulation of business entities. Civil Procedure The course will examine law regulating civil litigation in common law and civil law systems. Students will assess the jurisdiction of courts, selection of venue, and choice of law. Commercial Law This course addresses advanced topics in business law. It will cover the comparative law of corporate control transactions including mergers and acquisitions, hostile takeovers, and leveraged buyouts. The course also introduces students to issues in commercial law and transactions that business entities utilize. Administrative Law This course addresses the function of law within the administrative process by taking a comparative perspective on the administrative goals of the administrative process, rule making, and the structure of the regulatory state. Particular attention will be given to administrative agencies, judicial review, public inquiries and commissions, and the role of an ombudsman accountability. Ciminal Law & Procedure Hoe goals of the administrative process, rule making, and the structure of the regulatory state. Particular attention will be given to administrative agencies, judicial review, public inquiries and commissions, and the role of an ombudsman accountability. Hoe general theory of orime and punishment; He general theory of orime and punishment; He general theory of punishment. He use of authority and the right of exercising some activities; He use of authority and the right of exercising some activities; He use of authority on the divided into three units: He general theory of punishment. He course concludes with discussions on the general

2 Credits

of predictive writing: dividing a broad ent parts, and analyzing it. The course preting judicial decisions and carrying ndational course for learning about legal ps students synthesize what they are courses

esearch II

of transactional drafting: how to s while preparing to negotiate ents to the types of issues that can order to avoid the potential for litigation. nodologies developed in LAWR I.

esearch III

of persuasive writing and oral advocacy: dictive analysis of a client's case into document likely to persuade the court builds on the analytical and evaluative AWR I and II, and it introduces more

onsibility

en the ability of students to anticipate, ond to some of the critical ethical front managers in a global economy, the context of science and technology ce students to the ethical framework that the topics we will explore are ethical culture, corporate social responsibility, lentiality, and corruption.

dations of the Global Economy

of the legal foundations of the global public and private law perspective. aspects of the international community's transactions, trade, and investment e disputes arising out of cross-border It moreover delves into questions ow it can be used as a tool for

2 Credits

2 Credits

2 Credits

LAW 678	Dispute Resolution The course introduces students to approaches to resolving conflict both inside and outside of civil litigation, giving particular attention to trial advocacy, mediation, and negotiation. Introducing students to the skills required to carry out a negotiation, mediation or litigation.	3 Credits
LAW 679	Entrepreneurship Law The course addresses the range of transactional legal issues encountered during the startup and growth phases of a business organization. The course considers aspects of the transactional process, from initial stages of advising clients on financing, to negotiating agreements, to drafting documents that memorialize agreements, to assessing the implications for conflict resolution where agreements break down.	4 Credits
LAW 695	LL.M. Thesis The LL.M. Thesis is a cornerstone of the LL.M. programs. The students, in consultation with a faculty advisor, will be required to write a research paper within the specialization of the relevant LL.M. program. The aim is for the thesis to be up to 30,000 words and of publishable quality. A final requirement is the successful oral defense of the thesis before the Thesis Evaluation Committee (TEC).	0-6 Credits
LAW 706	Independent Study Independent Study is an opportunity for students to research problems in any field of law. Students enrolled in this course must prepare a research paper of minimum 10,000 words under the supervision of a permanent or visiting faculty member sponsoring their research. The final product must be embodied in a paper involving a substantial independent effort on the part of the student and resulting in a meaningful and substantial scholarly contribution. Work must be completed within one semester.	2 Credits
LAW 750	Energy Law This course will examine the exploitation of a wide range of energy sources, as well as the national, regional, and international approaches to their regulation and to assessing and managing their environmental impact. An additional focus will be on the public-private relationships that are formed in the energy sector, with attention to international project finance of energy transactions and the use of international	3 Credits

arbitration to address investor/state relations.

Global Economic Law and Governance

LAW 751

LAW 752

LAW 753

LAW 754

This is an advanced course in international economic law. It covers the traditional areas of international economic law (trade, investment and finance); it goes beyond that to explore the foundations of the global economy and global governance, as well as new and emerging areas at the intersection between international and domestic law such as sovereign financial law.

Construction & Infrastructure Development

The course explores issues of infrastructure development from a law and public policy perspective. It provides students with an opportunity to understand how public policies and the subsequent legal rules adopted in the field of infrastructure development may diverge despite common inputs and underpinnings, or converge despite different political, social and cultural settings. The course is divided into 5 blocks: law and infrastructure development; infrastructure finance; building and construction law; international infrastructure development law; infrastructure regulation.

Healthcare Law

This is a comparative course examining healthcare laws in the United Kingdom and Qatar. The purpose of the course is to give you a strong foundation in the major legal issues affecting the health sector. We will examine the structure of the healthcare systems, the influence of lobbyists on healthcare policies, ethics, consent, malpractice, confidentiality, abortion, pregnancy, reproduction, medical research, organ donations, mental health, artificial intelligence, genetics and endof-life care.

Advanced Human Rights

This course examines the basic concepts and theories of international human rights law, and discusses topical human rights issues in light of international standards. Drawing from the jurisprudence of human rights bodies, it addresses the indivisibility and interdependence of civil, political, social, economic and cultural rights, and focuses on challenges related to their implementation, including in the GCC. It examines topics such as forced disappearances; women's rights; freedom of speech; minority and indigenous people's rights; and refugee rights.

3 Credits

3 Credits

3 Credits

LAW 756	Advanced Dispute Resolution	3 Credits	LAW 762	Internatio
	This course focuses on alternative dispute resolution mechanisms,			This cour
	with an emphasis on mediation, international commercial arbitration			criminal l
	and investment arbitration. Key issues include formation of the			crimes a
	arbitration agreement, party autonomy, sources and rules, the arbitral			particula
	tribunal and its powers, the relationship of the tribunal to domestic			
	courts, procedural rules, the nature of arbitral awards, enforcement		LAW 763	Law, Tec
	of awards. Similar issues will be explored in investment arbitration.			This cour
	Qatari arbitration law and practice is an important component			as well a
	of the course.			continue
				course is
LAW 757	Environmental Law	3 Credits		new tech
	This course examines the values, assumptions, and guiding principles,			lt provide
	which underlie environmental protection and how the Qatari model			technolo
	of environmental protection compares to other comparative global			a broad r
	models. This course will examine the robust values, assumptions,			intelligen
	and guiding principles, that underlie global environmental protection;			
	and how specific global problems such as climate change, stratospheric		LAW 764	Law, Tec
	depletion of the ozone layer, transboundary movement of hazardous			This cour
	wastes, biodiversity, deforestation amongst others are addressed under domestic and international law.			as well a
				continue
				the cours
LAW 760	Sports Law	3 Credits		of new te
	This course addresses topics in the legal regulation of sports from			It provide
	the perspective of international institutions and select legal regimes			technolog a broad r
	including the European Union and the United States. Students will apply			intelligen
	principles from such fields as contract law, intellectual property law, business law, administrative law and, and international law to the sport			intelligen
	law context. Particular attention is given to issues in Qatari law that			
	impact that development of sports infrastructure.		LAW 765	Media an
				This cour
				cultural/o
LAW 761	Law, Technology and Intellectual Property	3 Credits		media; er
	The course is designed to provide students with advanced knowledge			legal prin
	on topics of law and technology in a globalized world. We will analyze			and cultu to addres
	aspects of intellectual property law, copyright, data protection, cross-			cultural h
	border online speech regulation in the context of platforms and first			arts, crea
	attempts at reigning in artificial intelligence. The course aims at 1)			

familiarizing students with legal developments in the United States, the European Union and emerging international standards, and 2) discussing the repercussions of these legal frameworks for Qatar and the region.

tional Criminal Law

ourse examines both substantive and procedural international al law with an emphasis on core crimes, such as genocide and against humanity. The procedural part will focus on enforcement, larly through the work of international criminal tribunals.

echnology and Intellectual Property I

ourse examines the relationship between law and technology as focuses on Intellectual Property (IP) law. As technology les to transform society, economy and professions, the is designed to help students understand the implications of chnologies in policymaking, courts and the legal profession. des students with advanced knowledge on topics of law and logy from an international and comparative perspective, covering d range of new technologies such as digital platforms, artificial ence, blockchain and autonomous weapons.

echnology and Intellectual Property II

ourse examines the relationship between law and technology as focuses on Intellectual Property (IP) law. As technology les to transform society, economy and professions, Irse is designed to help students understand the implications technologies in policymaking, courts and the legal profession. des students with advanced knowledge on topics of law and logy from an international and comparative perspective, covering d range of new technologies such as digital platforms, artificial ence, blockchain and autonomous weapons.

and Cultural Law

ourse examines the legal framework that governs media and the I/creative sector, including the press and broadcasting; social entertainment media; and the audiovisual. It further examines rinciples related to cultural heritage and applies them to museums Itural institutions. It combines different areas of legal knowledge ess questions related to media freedom and media regulation, I heritage preservation, as well as broader questions related to eativity, cultural policies, and the promotion of cultural diversity.

3 Credits

2 Credits

1 Credits

LAW 800 S.J.D. Colloquium

S.J.D. Colloquium

The S.J.D. Colloquium aims to provide S.J.D. candidates with an opportunity to present their research projects to their peers, as well as other colleagues and scholars who possess professional expertise in the specific area of law; each S.J.D. candidate has the obligation to present his or her work at least twice per semester. It moreover gives the opportunity to the S.J.D. candidates to be exposed to and discuss seminal scholarship among themselves, other peers and invited faculty members. Twice per semester, the S.J.D. Colloquium convenes as the "Graduate Seminar" with the participation of all graduate students at HBKU College of Law.

LAW 805 Advanced Research Methods in Law

The main objective of this course is to equip S.J.D. candidates with the necessary set of skills required to carry out independent research at the highest academic level. Participants will be supported to design the theoretical framework of a research project, and a variety of methodological approaches to law and their practical application in individual research projects. Moreover, the aim of the course is to assist S.J.D. candidates to improve their academic writing skills.

LAW 810 Advanced Global Legal Ethics

The course provides an in-depth introduction to different ethical theories and their relevance to legal thinking. The ethical theories covered will include utilitarian ethics, deontological ethics, virtue ethics, pragmatist ethics, ethics of care, existentialist ethics, religious ethics, among others. S.J.D. candidates are encouraged to draw on insights from these ethical theories and integrate them into their research.

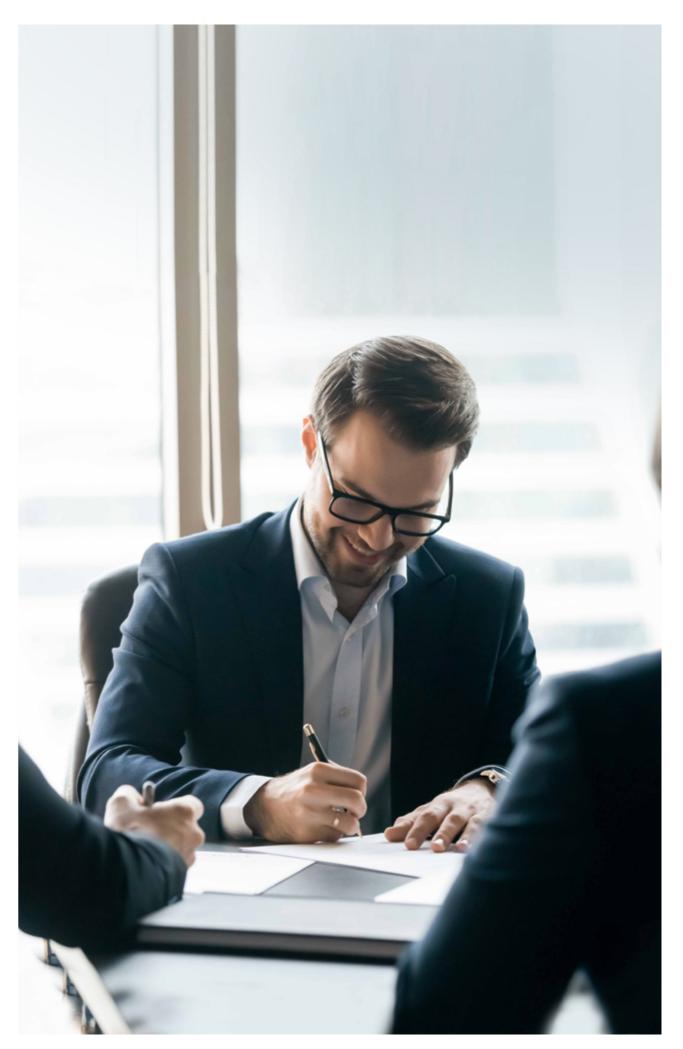
LAW 890 Dissertation Hours

The S.J.D. Dissertation is the cornerstone of the S.J.D. program. The S.J.D. Candidates, in consultation with their supervisor, will be required to write a dissertation of publishable quality. S.J.D. Candidates are required to complete an S.J.D. Dissertation up to 100,000 words that makes a substantial and original contribution to legal scholarship. Successful oral defense of the S.J.D. Dissertation is also a compulsory requirement for graduation.

2 Credits

3 Credits







College of Public Policy

The College of Public Policy (CPP) is the newest college to be launched by Hamad Bin Khalifa University, and reflects the priority that the university places on supporting and contributing to effective policy development and implementation for the Qatar National Vision 2030.

For more information, CLICK HERE

Academic Programs

Master of Public Policy

The Master of Public Policy (MPP) is a fulltime two-year degree offered by HBKU's new college, CPP. The program features a distinctive combination of interdisciplinarity, strong ethical foundations, entrepreneurship in public management, and innovation in policy making and design.

Qatar has a strategic geographical position at the global crossroads of culture, business, and geopolitics. The country is located at the center of a region that requires leaders who can manage multi-faceted relationships that span different public policy making dynamics and command a wide range of skills.

The MPP provides training to graduate students from a range of disciplines in the skills needed to understand and enrich policy making in Qatar and the region. The program will offer world-class academic and professional training in public policy analysis, design, implementation, evaluation, and management; as well as specializations in social policy, and in energy and the environment.

For more information, CLICK HERE

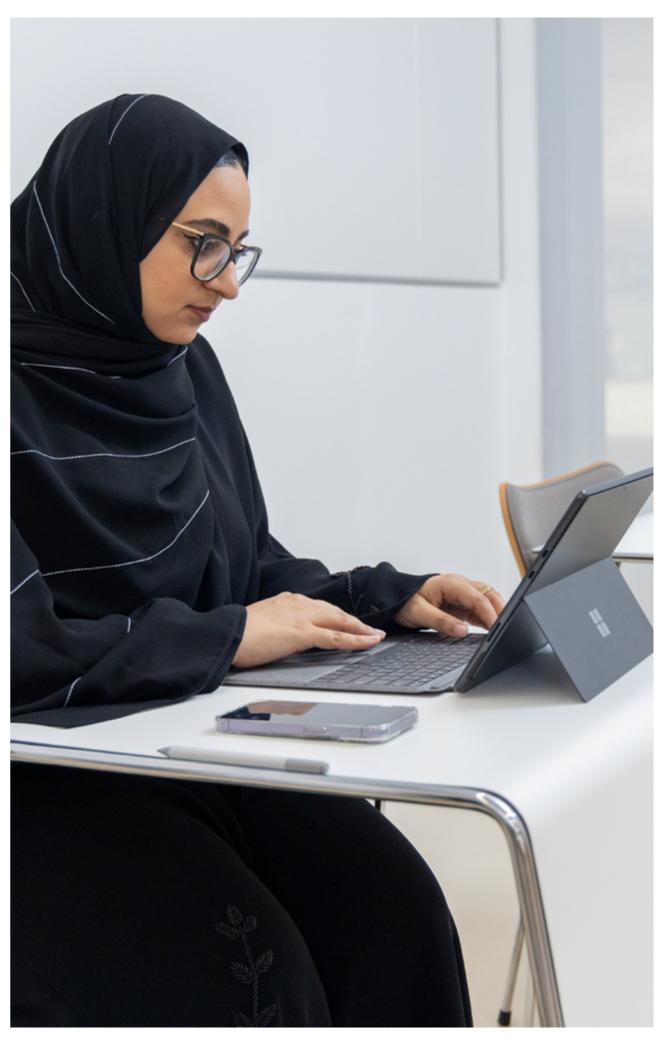
Master of Social Policy and Program Evaluation

The Master of Social Policy and Program Evaluation (MSPPE) is a full-time two-year degree offered by the College of Public Policy at HBKU. The program provides advanced analytic and substantive knowledge of social policy and program evaluation to educate professionals for careers in the public, private, and non-profit sectors on issues of local and global importance.

The program also supports Qatar's national development by providing evidence-based and ethically informed social policies, supporting policy and program evaluation and building national capacity in social policy and evaluation.

Supported by the Program for Social Policy Evaluation and Research (PROSPER) at CPP, the MSPPE offers students a unique opportunity to develop the evaluation skills needed to inform programs and policies with reliable evidence, support communities and drive organizational change across a range of sectors and activities. The program aims to prepare graduates to shape the strategic direction of social policy and program evaluation in Qatar and beyond.

For more information, CLICK HERE



Core Courses

PPO 601

PPO 602

PPO 611

PPO 621

PPO 650

PPO 651

PPO 652

PPO 653

PP0 722

PPO 703

PP0 704

PPO 690

Or

Specialization Labs

Advanced Seminar

Capstone Project

Study Plans

Master of Public Policy

Minimum hours required to complete program

Research Methods for Public Policy

Public Management: Innovations and Challenges

Advanced Seminar in Sustainability and Climate Policy

Analytical Methods for Policy Evaluation

Specialization Lab in Public Policy

Advanced Seminar in Social Policy

Capstone Project

Ethics, Law and Public Policy

Policy Analysis and Design

Economics for Public Policy

Global Political Economy

Comparative Public Policy

36 CH

24 CH

3

3

3

3

3

3

3

3

3

3

3

6

6 CH

3 CH

3 CH

Master of Social Policy and Program Evaluation

Minimum hours required to complete program

Core Courses		12 CH
SPO 605	Foundations of Social Policy	3
PEV 606	Foundations of Evaluation	3
PPO 616	Research Methods	3
SPO 615	Social Policy Analysis	3
Concentration: So	cial Policy	9 CH
SPO 655	Welfare of Children and Families	3
SPO 656	Health Policy	3
SPO 657	Education policy	3
Concentration: Pro	ogram Evaluation	9 CH
PEV 660	Advanced Methods for Program Evaluation	3
PEV 661	Benefit-Cost Analysis for Program Evaluation	3
PEV 662	Program Evaluation Planning and Designs	3
Elective Courses		6 CH
Elective 1:	(choose one)	
PPO 651	Global Political Economy	3
WSD 621	Introduction to Women and Gender Studies	3
IGA 612	Global Inequalities	3
Elective 2:	(choose one)	
ME 613	Social, Economic and Development Theory	3
WSD 622	Women, Work and Economic Development in the Middle East	3
PP0 621	Economics for Public Policy	3
Thesis		9 CH
PPO 695	Master's Thesis Hours	0-6
Non-Course Requ	irements	0 CH
699	Thesis Defense	0

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Course Descriptions

measurement, analysis of results, and identifying the relationship

between those results and future program performance.

PEV 606	Foundations of Evaluation	3 Credits	PP0 601	Research Methods for Public Policy
	This course is designed to provide an overview of both past and contemporary perspectives on evaluation theory, method, and practice. This course is designed to provide students with an introduction to evaluation fundamentals, including: history, professional standards, leading theories, nature and purposes of evaluation, the logic of evaluation, types of evaluations, and values.			This course introduces the logic of qua methods, basic statistical techniques, r design, data collection, data analysis, a Emphasis is put on the application of r policy environment and on various tech and presenting evidence to enable stud effectiveness of policy decisions. Indiv collaborative, group-based in-class labs
PEV 660	Advanced Methods for Program Evaluation	3 Credits		relevance of the course.
	This course is designed to provide a broad – yet rigorous – overview of the tools available to evaluate programs and policies. These tools and methods include randomized control experiments and quasi- experiments, such as difference-in-difference, regression discontinuity, and instrumental variables. Students learn how to interpret evaluation results, read evaluation research critically, and understand the pros/cons		PPO 602	Ethics, Law and Public Policy This course introduces the ethical four law, and the forms of ethical reasoning A distinctive focus will be placed on the Experiential case studies will show the
PEV 661	of each method. Benefit-Cost Analysis for Program Evaluation	3 Credits		taken on existing and emerging policy i influence outcomes. The relationship b particularly rights, and public policy wil
	This course is designed to provide an overview of economic evaluation methods such as benefit-cost analysis, cost-effectiveness analysis, and cost-utility analysis, including concepts and definitions, analytical frameworks, measurement of cost, placing monetary value on program ingredients, analyzing costs, cost-effectiveness analysis, cost-benefit analysis and cost-utility analysis.		PPO 611	Policy Analysis and Design This course provides the foundation fo process and its stages, including proble of options and choices, implementation are demonstrated to provide students of and innovative approaches. The design consider policy from the user's perspect
PEV 662	Advanced Methods for Program Evaluation	3 Credits		of delivery challenges and opportunitie
	This course will present processes and tools to engage in program evaluation planning, design and implementation. The course covers		PPO 616	Research Methods
	a variety of evaluation approaches and discusses standards of practice, ethical considerations, supporting evaluation use, and continuous learning in evaluation. Topics include: evaluation planning, conducting and managing evaluations; stakeholder engagement strategies; evaluation reporting, evaluation budgeting. Students will cover all phases of an evaluation planning and design including the problem statement, evaluation design, evaluation purpose statements, variable			This course provides introduction to m methods in social policy and evaluation acquaint students with basic approach research. This course has two parts: Th on the scientific research process. It ta issues pertinent to all stages of research developing a research question, literatu

3 Credits

of quantitative and qualitive research iques, research problems, research alysis, and results interpretation. on of research methods in a real-world us techniques for collecting, managing ble students to critically evaluate the s. Individual training is blended with ass labs to enhance the practical

3 Credits

al foundations of public policy and soning that underpin policy choices. d on the role of culture and religion. ow the different ethical positions policy issues, and how these positions nship between ethics and law, licy will also be explored.

tion for understanding the policy g problem definition, the selection entation, and evaluation. Analytical tools dents with evidence-based, leading-edge design focus encourages students to perspective, as well as in terms rtunities.

This course provides introduction to methodology and major research methods in social policy and evaluation. The goal of this course is to acquaint students with basic approaches, concepts, issues, and tools of research. This course has two parts: The first part consists of readings on the scientific research process. It takes a broad view dealing with issues pertinent to all stages of research in public policy that include developing a research question, literature review, norms and conventions in academic writing, ethics of research, and the overall design of a research project. The second part gives a general overview of qualitative and quantitative methods. The qualitative methods examined include the use of case studies and interviews; quantitative methods start with descriptive statistics, and continue with inferential methods such as t-tests, ANOVA, correlation, and multiple regression and their applications using a statistical software.

3 Credits

PP0 621	Economics for Public Policy This course equips students to understand the key concepts in microeconomic as well as macroeconomic theory and their application to public policy. Microeconomic topics may include rational choice theory, market structures and market failure, green economy, welfare economics, and Behavioral economics. Macroeconomic topics may include development economics and social choice, monetary and international trade policy.	3 Credits	PPO 653	Analytical Methods for Policy Evaluation This course provides an introduction to evid of assessing and evaluating public policy ad include needs assessment, cost-benefit and impact evaluation, logic models, user survey policy cycle evaluation, participative and co critical theory informed approaches, data vi and experiments.
PPO 650	Public Management: Innovations and Challenges This course examines the principles, processes, and structures of public sector management both in general terms, and in a comparative context, exploring different public administration traditions and systems. It also examines current debates and examples of public sector innovation, and the complex challenges of public management in the 21 st century.	3 Credits	PPO 690	Capstone Project In consultation with a faculty advisor and a (working in small teams) will be required to within one of the two designated specializat in small teams, with a designated client, to p paper on a real policy problem/issue in one in the program (Social Policy, or Energy and Policy). The chosen case will be relevant for
PPO 651	Global Political Economy This course provides an understanding of the genesis, current issues, and future scenarios of the global political economy (GPE). In a globalized and interdependent world, politics and economics	3 Credits	PPO 695	and the world. The capstone project conclu and a policy brief. Master's Thesis Hours
	permanently interact and intersect with one another, creating power dynamics that affect public policy across sectors and levels. Major theoretical frameworks of GPE and their application for public policy design and analysis will be complemented with selected case studies. The roles of institutions, knowledge and learning, justice and sustainability issues, and ethical policy choices will be core themes of the course.		PPO 703	Advanced Seminar in Social Policy This course provides a foundation for under in the broadest sense, in terms of the mode future, in a comparative and multi-level gove theoretical frameworks, such as social choi approach are discussed. Topics may include and labour protection, migration, youth, agin
PPO 652	Comparative Public Policy	3 Credits		development, education and health.
	This course compares public policy along several dimensions cross- sectoral comparisons (e.g., social policy compared to economic policy), cross-country and regional comparisons (e.g., the same policy field as it is addressed in Europe or North American or the MENA region), and cross-system comparisons (e.g., developed versus developing states, federal versus unitary). Students will analyze and understand the way in which context shapes policy dynamics and outcomes in a complex and globalized policy environment.		PPO 704	Advanced Seminar in Sustainability and Cli This course provides an integrated understa challenges and opportunities in energy and special attention to the complex and somet with other policy fields (e.g., commercial, leg The course is nested within the frames of si resilience, and energy transitions. National, perspectives on these issues will be explore

to climate change.

3 Credits

luction to evidence-based techniques ublic policy across sectors. Topics may ost-benefit analysis, cost effectiveness, ls, user surveys, program profiling, pative and community-based evaluation, aches, data visualization and reporting,

6 Credits

advisor and a client organization, students be required to develop a capstone project ed specializations. Students will work ated client, to produce an analytical i/issue in one of the two specializations or Energy and the Environmental be relevant for Qatar, the Middle East, roject concludes with presentations

0-6 Credits

3 Credits

olicy

ation for understanding social policy s of the modern welfare state and its nulti-level governance context. Established as social choice theory and the capabilities cs may include family policy, employment on, youth, aging and pensions, human ealth.

ability and Climate Policy

rated understanding of major issues, in energy and environmental policy, with ex and sometimes conflicting interactions ommercial, legal, and technological). ne frames of sustainable development, ons. National, regional, and global perspectives on these issues will be explored, as will the connections

PPO 705

	This course addresses a variety of specialized and timely areas in public policy and/or public management. Topics may include techniques and approaches in policy analysis and evaluation, specific policy sub-fields, governance challenges, institutions and leadership.
PP0 722	Specialization Lab in Public Policy
	The Lab intersects key public policy concepts with sector-specific topics reflective of Qatar, the Gulf State region, and its comparative interest. By focusing on experiential learning through guest speakers, community- based engagement, challenge assignments, and micro-projects students apply ideas from Year One to a diverse array of current policy challenges in Qatar and the region. Class time will be devoted to case studies, skills development, and preparation for the MPP Capstone Project.
SPO 605	Foundations of Social Policy
	This course will present a foundation for concepts and paradigms

Special Topics in Public Policy

This course will present a foundation for concepts and paradigms in social policy. The course identifies cross-national approaches to social policy and the gaps in theoretical understandings of social policy. This course explores the socio-historical, economic, ideological and institutional contexts for the development of social policy across different welfare regimes. The policy-making process as well as the role of social policy in processes of inclusion, exclusion, marginalization, and oppression will be discussed. The critical analysis of selected social policies will be emphasized.

SPO 615 Social Policy Analysis

This course introduces students to various approaches, methods and frameworks utilized in policy analysis while also providing students the opportunity to apply these techniques to a series of contemporary social policy problems. Policy analysis is defined as the application of social and scientific research and practical knowledge necessary for understanding the efficient, effective and optimal approaches for 'designing, implementing and evaluating existing policies, programmes and other courses of action adopted by states'.

	3 Credits	SPO 655
1	3 Credits	
6		SPO 656
	3 Credits	
		SP0 657
I		
	3 Credits	

Welfare of Children and Families

This course will focus on the development of social policy as it affects families and children from different cultural and economic backgrounds and as it is given form in the public child welfare system, including related laws, systems, and institutions. The interrelationship of values, social norms, culture, and social and family policy will be discussed. There will be examination of the development of infrastructure to support the needs of children and families over the history of the child welfare system across cultures.

Health Policy

This course presents an introduction to health policy, i.e., the various ways in which the government plays a role in health and in the provision of health care. This course will focus on public policy approaches to health policy, employing interdisciplinary methodologies to understand selected public health policies, programs, and interventions. This course provides a framework for understanding the social, political and economic dimensions of health policy.

Education Policy

This course will examine contemporary education policy issues, developments, trends and debates from a comparative perspectives with a focus on enabling students to understand policymaking structures and processes and think critically about the challenges and opportunities facing the field today. In particular, we will examine education indicators and outcomes, review policies and proposals for reform to improve education affordability, access, equity, quality, and accountability.

3 Credits

3 Credits



College of Islamic Studies

The College of Islamic Studies (CIS) was established as a home for contemporary Islamic studies and to provide a unique platform for faculty and students to contribute to intellectual debates on Islam in a global context.

For more information, CLICK HERE

Academic Programs

Master of Arts in Applied Islamic Ethics

The first program of its kind worldwide, the MA in Applied Islamic Ethics addresses how Islam, as a world religion with a rich moral heritage, engages with and contributes to global moral discourses. Its strong interdisciplinary character combines in-depth knowledge of both theoretical and applied ethics rooted in the Islamic tradition. The program is consistent with the Qatar National Vision 2030 by enhancing a knowledge-based society and with HBKU's mission to develop world-class interdisciplinary academic programs.

For more information, CLICK HERE

Master of Arts in Islam and Global Affairs

The MA in Islam and Global Affairs (IGA) is a oneof-a-kind program that provides an opportunity to analyze the place of Islam in the context of global affairs, and the interconnected challenges facing global Muslim communities from an interdisciplinary perspective. Through research and integrative lab assignments, students are able to explore complex, interconnected global issues in collaboration with local and international organizations.

For more information, CLICK HERE

Master of Arts in Contemporary Islamic Studies

The MA in Contemporary Islamic Studies offers students a unique opportunity to enjoy a strong multidisciplinary and interdisciplinary graduate education across a range of core subjects, while also enabling them to pursue a specialization in one important area within the field of modern Islamic scholarship. The program is tailored to examine traditional Islamic knowledge and place such knowledge in the context of the challenges faced by modern society.

For more information, CLICK HERE

Master of Science in Islamic Art, Architecture and Urbanism

The MSc in Islamic Art, Architecture and Urbanism is a multidisciplinary program that produces and transfer knowledge in the fields of Islamic Art, Architecture and Urbanism with a strong relevance toward the contemporary world of Muslim societies. The program is conducted in collaboration with the University of Oxford in the UK, it aims to equip the next generation of curators, historians, and designers with a critical and informed understanding of Islamic art and architecture. This program encourages research towards safeguarding Islamic cultural heritage by examining the contextual history of Islamic art, architecture, and urbanism.

For more information, CLICK HERE

Master of Science in Islamic Finance

The MSc in Islamic Finance is a specialized program that teaches qualitative and quantitative methods of analysis in both Islamic and conventional finance. The mixed philosophy of the program enables graduates to attain the skills needed to understand the global financial system, and proposes viable alternatives to existing models, by blending guidance from Shari'a with modern scientific knowledge and the techniques of economics and finance

For more information, CLICK HERE

PhD in Islamic Finance and Economy

The PhD in Islamic Finance and Economy is an innovative multidisciplinary program that provides students with the required analytical and research skills to understand, analyze, and interpret the workings of the rapidly expanding Islamic financial services and market sectors, and to tackle their emerging challenges and opportunities. The program is centered on the national priorities as set out in the Qatar National Vision 2030, on the local aspirations as enshrined in the objectives of the Shari'a, and on global targets such as the UN Sustainable Development Goals.

For more information, CLICK HERE

Study Plans

Master of Arts in Applied Islamic Ethics

Minimum hours required to complete program

36 CH

Master of Arts in Islam and Global Affairs

Minimum hours required to complete program

Foundation Cou	rses	9 CH
IGA 600	Islamic Worldview	3
IGA 605	Research Methods	3
IGA 611	Introduction to Islam & Global Affairs	3
Core Courses		9 CH
IGA 612	Global Inequalities	3
IGA 613	Islam, Conflict Transformation and Peacebuilding	3
IGA 628	Globalization & Faith Based Development	3
Specialization C	ourses	6 CH
IGA 627	Special Topics in Islam and Global Affairs	3
Select one of the	following courses	
IGA 622	Islam and Global Governance	3
IGA 629	Humanitarian Action in the Muslim World	3
Lab		3 CH
IGA 689	Integrative Lab	3
Thesis		9 CH
IGA 695	Master's Thesis Hours	0-6
Non-Course Rec	juirements	0 CH
699	Thesis Defense	0

Foundation Courses		6 CH
AIE 610	Islamic Ethics: Mapping the Field	3
AIE 611	Research Methods and Sources on Ethics	3
Core Courses		6 CH
AIE 630	Scriptural Ethics: Ethics in Quran and Sunna	3
AIE 631	Theological and Philosophical Ethics	3
AIE 632	Ethical Reasoning and Moral Decision-Making	3
Elective Courses		15 CH
AIE 633	Islamic Bioethics	3
AIE 634	Ethics of Migration and Human Rights	3
AIE 635	Business Ethics	3
AIE 636	Peace, War and Political Ethics	3
AIE 637	Gender and Islamic Ethics	3
AIE 640	Islamic Ethics of Pandemics	3
AIE 641	Islamic Ethics and Artificial Intelligence	3
Student can choose Tut	torial or Internship as a replacement of one of the elective courses	
AIE 660	Tutorial	3
AIE 661	Internship	3
Thesis		9 CH
AIE 695	Master's Thesis Hours	0-6
Non-Course Requirem	ents	0 CH
699	Thesis Defense	0

Master of Arts in Contemporary Islamic Studies

Minimum hours required to complete program

36 CH

Core Courses		9 CH
CIS 600	Foundations of Islamic Thought	3
CIS 601	Contemporary Quran and Hadith Studies	3
CIS 602	Applied Research Methodologies in Islamic Studies	3
Specialization 1: Conten	nporary Islamic Thought	
Required Courses		9 CH
CIS 607	Islamic Thought and Postcolonial Studies	3
CIS 705	Islam and Modernity	3
CIS 706	Islamic Law and Society	3
Elective Courses		9 CH
CIS 608	The Media and Muslim Societies	3
CIS 609	Islam and Politics in the Muslim World	3
CIS 611	Scientific Thought in Muslim Societies	3
CIS 612	Muslim Societies in Diaspora	3
CIS 613	Modern History of the Muslim World	3
CIS 710	Muslim Encounters with Other Societies	3
Specialization 2: Fiqh ar	nd Society	
Required Courses		9 CH
CIS 615	Non-textual Legal Sources	3
CIS 616	Fatwa, Family and Society	3
CIS 617	Islamic Jurisprudence, Politics and the State	3
Elective Courses		9 CH
CIS 618	The Higher Objectives of Shari'a and Public Interest	3
CIS 619	Text and Context: Comparative Textual Readings	3
CIS 620	Nawazil and Novel Legal Issues	3

Personal Earnings and Economics

699	Thesis Defense	0
Non-Course Req	uirements	0 CH
CIS 695	Master's Thesis Hours	0-6
Thesis		9 CH
CIS 623	Muslim Social and Political Systems and Institutions	3
CIS 622	Social Justice, Community Welfare and Sustainable Development	3

3

CIS 621

Master of Science in Islamic Art, Architecture and Urbanism

Minimum hours required to complete program

Foundation Courses		3 CH
IST 636	Quranic Civilizations, Geography and Archaeology	3
Core Courses		18 CH
IAA 600	Independent Project Modelling	3
IAA 610	Research and Design Methods	3
IAA 611	History of Islamic Art and Architecture I (650-1250)	3
IAA 623	History of Islamic Art and Architecture II (1250-1900)	3
IAA 625	Survey of Architectural Typologies of the Islamic World	3
IST 621	Sustainable Islamic Urbanism: Past and Present	3
Specialization (Choose	one of the specializations)	6 CH
SPECIALIZATION A: His	story and Cultural Display	
IAA 631	Islamic Objects and Manuscripts	3
IAA 632	Museum and Exhibition Studies	3
SPECIALIZATION B: Co	ntemporary Mosque Architecture	
IAA 633	Mosque Architecture Design	3
IAA 634	Islamic Architecture and Urbanism in the 20th & 21st Centuries	3
SPECIALIZATION C: Su	stainable Cities of Muslim Societies	
IAA 635	Contemporary Cities for Muslim Societies	3
IAA 636	Globalization, Cities and Urban Policies	3
Electives	3 CH	
IAA 641	Urban Interventions in Historic Islamic Cities	3
IAA 642	Physical Spaces and Spatial Humanities in Digital Societies	3
IAA 643	Types and Typologies of Domestic Architecture	3

Students can tal	ke one elective from Sustainable engineering Courses or Di	gital Humanities Course
Thesis		6 CH
IAA 695	Master's Thesis Hours	0-6
Non-Course Ree	quirements	0 CH
699	Thesis Defense	0

Master of Science in Islamic Finance

Minimum hours required to complete program

36 CH

Common Core Courses	3	12 CH
ISF 605	Research Methods	3
IFI 605	Islamic Financial Contracts	3
IFI 607	Islamic Banking and Financial Markets	3
IFI 615	Islamic Corporate Finance and Financial Engineering	3
Concentration 1: Sustai	nable Finance	
Concentration Core Co	urses	6 CH
IFI 702	Sustainable Finance and Impact Investing	3
IFI 703	Islamic Economics and Sustainable Development	3
Concentration 2: Islamic	c Finance	
Concentration Core Co	urses	6 CH
IFI 707	Islamic asset, Funds & Portfolio Management	3
IFI 701	Analysis of Financial Statements with Applications to IBs	3
Electives		9 CH
ISF 602	Principles and Objectives of Islamic Law	3
IFI 606	Islamic Economics and Development in Theory and Practice	3
IFI 608	Strategic Management in Islamic Finance	3
IFI 691	Internship	3
IFI 704	Applied Quantitative Methods in Islamic Finance	3
IFI 705	Legal, Regulatory and Institutional Aspects of Islamic Finance	3
IFI 706	Independent Studies	3
IFI 709	Behavioural Islamic Economics & Finance	3
IFI 710	Fintech and Its Islamic Finance Applications	3

Or	
Take any 700 or 8 below	800 level courses as electives. Courses available in current cata
IFI 800	Circular Economy and Comprehensive Development:
	An Islamic Perspective
IFI 801	Entrepreneurship, Ethics and Sustainability
IFI 803	Islamic Financial Structuring: Strategies and Contract
IFI 810	Advanced Corporate Finance and Investment
IFI 811	Advanced Topics in Micro and Macro Economics: Isla
IFI 812	International Islamic Economic and Financial Relation
IFI 813	Islamic Social Finance and Empowerment
IFI 814	Islamic Economic History and Thought
IFI 815	Governance Legal and Regulatory Issues of Islamic Fi Institutions
IFI 816	Advanced Risk Management of Islamic Financial Insti
IFI 817	Financial Analysis and Portfolio Modelling
IFI 840	Islamic Finance Independent Studies
IFI 841	Sustainable Economy Independent Studies
Thesis	
IFI 695	Master's Thesis Hours
Non-Course Req	uirements
699	Thesis Defense

	3
d Sustainability	3
g: Strategies and Contracts	3
ce and Investment	3
and Macro Economics: Islamic Perspectives	3
mic and Financial Relations	3
Empowerment	3
nd Thought	3
ulatory Issues of Islamic Financial	3

3

rses available in current catalog are listed

	•
nd Thought	3
latory Issues of Islamic Financial	3
t of Islamic Financial Institutions	3
olio Modelling	3
t Studies	3
endent Studies	3
	9 CH
	0-6
	0

PhD in Islamic Finance and Economy

Minimum hours required to complete program

		10 011
Core Courses		12 CH
IFI 802	Applied Econometrics	0
IFI 804	Applied Topics in Usul al Fiqh and Maqasid Al Sharia	3
IFI 821	Advanced Topics in Islamic and Sustainable Economy	3
IFI 822	Advanced Topics in Islamic and Sustainable Finance	3
IFI 823	Advanced Research Methods	3
Elective Courses		6 CH
IFI 711	Selected Topics in Applied Econometrics	3
IFI 702	Sustainable Finance and Impact Investing	3
IFI 704	Applied Quantitative Methods in Islamic Finance	3
IFI 606	Islamic Economics and Development in Theory and Practice	3
IFI 608	Strategic Management in Islamic Finance	3
IFI 709	Behavioural Economics in Islamic Finance	3
IFI 710	Fintech and Its Islamic Finance Applications	3
IFI 708	Selected Topics in Applied Econometrics	3
IFI 800	Circular Economy and Comprehensive Development:	
	An Islamic Perspective	3
IFI 801	Entrepreneurship, Ethics and Sustainability	3
IFI 803	Islamic Financial Structuring: Strategies and Contracts	3
IFI 810	Advanced Corporate Finance and Investment	3
IFI 706	Independent Studies	3
IFI 811	Advanced Topics in Micro and Macro Economics: Islamic Perspectives	3
IFI 812	International Islamic Economic and Financial Relations	3
IFI 813	Islamic Social Finance and Empowerment	3
IFI 814	Islamic Economic History and Thought	3
IFI 815	Governance Legal and Regulatory Issues of Islamic Financial Institutions	3

IFI 816	Advanced Risk Management of Islamic Financial Institutions	3
IFI 817	Financial Analysis and Portfolio Modelling	3
IFI 840	Islamic Finance Independent Studies	3
IFI 841	Sustainable Economy Independent Studies	3
Thesis		36 CH
IFI 890	Dissertation Hours	0-9
Non-Course Ree	quirements	0 CH
790	Doctoral Qualifying Exam	0
799	Candidacy Exam	0
899	Dissertation Defense	0

Course Descriptions

AIE 610	Islamic Ethics: Mapping the Field This course covers key concepts, theoretical principles, and doctrines of Islamic Ethics. The course examines how these principles and their applications can address contemporary issues related to various fields including finance and business, social and political affairs, inter-cultural issues, as well as biomedical sciences. By the end of the course, students will work on developing a framework for ethical reasoning around a specific ethical dilemma, as part of the training in problem-solving.	3 credits	AIE 632	Ethical Reasoning and Moral Decise This course covers reasoning in the from discipline-centered reasoning It examines the principles and prio arguments for a goal-oriented or a the contemporary emphasis on the reconfiguring the sources of know examines how to critically analyze judgments in applied case studies
AIE 611	Research Methods and Sources on Ethics The course teaches students how to work with the major sources and methodological approaches in ethics research. The particular focus is on research-based writing. After situating Islamic studies and ethics in the broader context of academic research, basic research skills will be reviewed and applied. The course provides an overview of methodological approaches and major sources on ethics and leads students to develop a research proposal on ethics.	3 credits	AIE 633	Islamic Bioethics This course is a rigorous engagem Bioethics. On the one hand, the att field of Bioethics by maintaining th - an ethics concerned with bios (lit sciences and the value systems th enterprise within the larger context and environmental concerns. On th Bioethics is linked with the richnes
AIE 630	Scriptural Ethics: Ethics in Quran and Sunna This course provides a foundation in Scriptural ethics by examining various approaches to the two major scriptural sources in Islam, namely the "Qur'an" and the "Hadith". In Quranic ethics, attention will be given to	3 credits		to which ethical questions and dile at their macro levels and through t responsibility-oriented, rather than
	morality in Quranic discourse and commentaries. As for Sunna, morality in canonical collections of Hadith will be examined. The relationship between these two sources of ethics is analyzed through the lens of classical and modern scholarship.		AIE 634	Ethics of Migration and Human Rig This course analyzes the relationsl ethical and contemporary context. explored, namely: 1) Forced Migrat refugees) and 2) Voluntary Migrati the course will compare migration
AIE 631	Theological and philosophical Ethics This course presents a comprehensive survey of ethics in the Islamic theology and philosophy. The main focus here is to examine the anthological and epistemological questions related to ethics. This course covers different theological approaches to the human	3 credits		western theories of migration with human and labor rights conventior studies to analyze and provide inno based problems of migration.
	action, obligation (taklīf) and ethical judging. In the philosophical part, the course covers the main Greek ethical themes and its effect on the classical Islamic philosophy and the later developments. In this course, students will get knowledge about the history, concepts, doctrines,		AIE 635	Business Ethics The course covers both theoretica and a critical analysis comparing V tradition and contemporary field of

and philosophers in the Islamic tradition. It not only discusses the

classical period, but also on the modern and contemporary trends

of moral philosophy.

3 credits

cision-Making

the Islamic tradition, covering shifts ing to interdisciplinary reasoning. riorities of ethical reasoning, the r a value-oriented approach to ethics, the context of the ethicist and owing good and bad. The course ze argumentation in ethical es.

ement with the nascent field of Islamic attempt here is to do service to the the rich meaning of the term bioethics (literally life). We examine biomedical that shape and guide the scientific ext of planetary health, climate change the other hand, this broad approach to bess of the Islamic tradition, according dilemmas should ideally be approached

h the prism of communitarian and an individualistic, perspectives.

Rights

nship between Islam and migration in an ext. Two semi-autonomous areas will be pration (displaced, asylum seekers and ation (economic migrants). Theoretically, on discourses in Islam with modern ith particular focus on international ions. Students will be given applied case nnovative solutions that include gender-

The course covers both theoretical and applied ethics in business, and a critical analysis comparing Western business ethics, Islamic tradition and contemporary field of Islamic economics. First, the general conceptual field asks: "What is Islamic in Islamic finance, Islamic economics and Islamic banking?" Second, the ethical foundations of business, based upon perspectives from Islamic law and the new field called business ethics. The third dimension will challenge students to apply the ethical principles to practical applications in individual and organizational behavior from the region. 3 credits

3 credits

AIE 636	Peace, War and Political Ethics This course will introduce the multiple dimensions of Islamic ethics in politics, peace and war from a comparative perspective. It covers theoretical and applied aspects while addressing historical and contemporary political values. The first part discusses issues related to state and society, including the public good, political legitimacy and good governance. The second part locates Islamic political ethics within the broader global context, shedding light on the borders of the Muslim moral community with the challenge of consistency, humanism and ethical pluralism. The third part focuses on the ethics of peace and war in historical and contemporary discourses.	3 credits	AIE 660	Tutorial Tutorial students will have one-on-of key and impactful writings (class The program will make use of the r of CILE, including the Journal of Isl Studies in Islamic Ethics, giving stu the key publications in the field. Th a remedial program to assist stude in keeping up with readings. It may in thesis-related problems.
AIE 637	Gender and Islamic Ethics This course will familiarize students with the principles of gender research. It contains four parts. 1. Feminist Theory: from liberal feminism to Marxist, post-structural and post-colonial feminism; feminist epistemology and its explanatory power. 2. Masculinity Theory: covering the theorization of hegemonic masculinity and subsequent critiques	3 credits	AIE 661 AIE 695	Internship The Internship is a program tailored work-plans. Students will benefit fr that may later provide them with er after graduation. Master's Thesis Hours
	and modifications. Specific focus will be on masculinity in the Muslim world. 3. Islam & Gender as an ethical approach: the Islamic perception of gender and related concepts such as matrimony personal status and equality. 4. Contemporary Gender Issues in the Islamic world: ethics and feminism, a woman's right to her own body, gender bias in politics, law, media, and empowerment policies		CIS 600	Foundations of Islamic Thought The course provides an in-depth in traditions and debates within Islam of modernity. The course is based texts in philosophy, theology, law, S
AIE 640	Islamic Ethics of Pandemics This course provides the students interested in Islamic Ethics with the necessary knowledge and skills to critically engage with the global bioethical discourse on pandemic including covid-19. It will be divided into five main parts: (1) historical overview of the ethical discussions on early plagues, (2) the types of ethical approaches and discussions on early plagues, (2) the types of ethical approaches and	3 credits	CIS 601	course identifies major trends and demonstrates connections betwee the changing cultural assumptions discourse of Muslim scholars, and of their works.
AIE 641	 discourses on covid-19, (3) key ethical issues, (4) critical reading of relevant texts and (5) writing a research paper. Islamic Ethics and Artificial Intelligence This course focuses on the moral questions raised by Artificial Intelligence (AI). It will be of interest for a wide range of students who are curious to understand how the rich Islamic moral tradition engages with global ethical discussions on cutting-edge technologies. It comprises five main parts: (1) Prelude: Artificial Intelligence (AI) & AI moral discourse, (2) Governing policies and principles, (3) Philosophical foundations & challenges, (4) Main issues, approaches and applied 	3 credits	CIS 601	Contemporary Quran and Hadith S This course provides a contempora scriptural sources in Islam, the Qur methodologies for working with the epistemological approaches to the of these sources, as well as the int methodologies for working with the in modern Muslim societies are the

3 credits

on-one in-depth supervised reading lassics) in the field of Islamic Ethics. he research output and publications Islamic Ethics and the book series students access to (and reviews of) The tutorial may be used as udents who are having difficulties hay also be used to assist students

ored for the students' future t from existing approved institutions n employment opportunities

0-6 credits

3 credits

3 credits

a investigation of multiple intellectual amic Civilization before the onset ed on readings of key primary w, Sufism and social thought. The nd directions of Islamic scholarship, veen fields of knowledge, highlights ons that have historically shaped the nd explores the contemporary relevance

Studies

orary treatment of the major Quran and the Hadith, and the salient them. The course examines competing the history, composition, and content interplay between them. Contemporary these sources and their function then analyzed.

CIS 602	Applied Research Methodologies in Islamic Studies	3 credits	CIS 611	Scientific Thought in Muslim Soci
	The course introduces students to the field of Islamic studies and			This course explores the scientific
	teaches them how to design and prepare a research project which			societies and the complex interact
	makes a meaningful contribution to this field and the particular focus			and experimental discovery. It trac
	of this course is on research-based paper writing. After situating Islamic			enquiry that occurred due to intera
	studies in the broader context of academic disciplines, basic research			learning and consequently, how the
	skills will be reviewed and applied in the context of a self-identified			influenced European scientific thin
	research project. Major approaches in the field of Islamic studies			Muslim societies will be discussed
	will be surveyed taking the case of canonical prayer and significant			it presents will be explored through
	contributions to the ongoing debates about Orientalism will be reviewed.			evolution and cosmology.
CIS 607	Islamic Thought and Postcolonial Studies	3 credits	CIS 612	Muslim Societies in Diaspora
	This course will focus on the development of decolonial and			Diasporic Muslim communities ha
	postcolonial studies and their applications to the study of Islamic			while diasporic communities are ir
	Thought and society, including debates around orientalism and			been considered a case apart. In th
	women's studies. Through the study and analysis of key texts, students			specificity appears more limited th
	will engage significant trends in traditional and modern scholarship,			from the past and present, this cou
	navigate critically through the relevant academic literature, and analyze methodological developments in Religious Studies and Islamic Studies.			diasporas and their role in the spre the ~homeland" and the broader M
				relating to the minority condition, a
				in the formation of their identity.
CIS 608	The Media and Muslim Societies	3 credits		
	This course explores the surprisingly close relationships between the forces of media and religion in what is arguably a "secular" age.		CIS 613	Modern History of the Muslim Wo
	It will closely examine the evolution of ubiquitous religious content			The course offers an introduction i
	and examine how it relates to Muslim society. The course also considers			world with a focus on the Middle E
	qualitative methods in analyzing major media narratives that that include			It surveys the emergence of the co
	such topics as the use of digital media by a variety of Muslim groups,			early 19th century in relation to bro
	reactions and counter-reactions to extremism and Western discourses			transformation. It retraces change
	appropriating Islam for political advantage			organization and examines the co
				order which continue to structure I
CIS 609	Islam and Politics in the Muslim World	3 credits		various nationalist and Islamic mo interplay between modernization p
	This course examines relations between Islam and politics in the			developments, introducing student
	contemporary Muslim world. The course surveys foundational texts,			their study.
	and classical theories of political order, as well as key notions of			
	Western political thought. On this basis, the course provides a			
	contextualized analysis of central debates about the political order,			

while situating them in the evolving structure of the Muslim world.

3 credits

Muslim Societies

the scientific tradition that developed in Islamicate nplex interaction between scriptural revelation covery. It traces the development of scientific due to interactions with the ancient traditions of lently, how the innovations that resulted may have scientific thinking. The rise of modern science in be discussed and the epistemological challenges plored through a series of subjects such as

3 credits

mmunities have existed throughout history and munities are integral part of Islam, they have often ase apart. In the context of globalization, their nore limited than before. Taking diverse cases esent, this course examines the formation of ole in the spread of Islam, changing relations to the broader Muslim community, legal problematics ty condition, and the interplay of culture and religion

ne Muslim World

introduction into the history of the modern Muslim the Middle East and the Gulf region in particular. ence of the contemporary state-system since the relation to broader processes of social and cultural races changes on the levels of identity and spatial mines the competing visions of legitimate political to structure Muslim polities today. Looking at nd Islamic movements, the course examines the dernization policies, social change and intellectual lucing students to key analytical concepts for

CIS 615	Non-Textual Legal Sources	3 credits
	This course provides a comprehensive treatment of the sources of Islamic law that are disputed with Islamic legal theory and clarifies their significance in contemporary ijtihad. The course clarifies the need for such sources as a criterion for deducing legal rulings in a way that counters the evident errors of literalism that characterize religious extremism. Thus, the course discusses the following non-textual legal sources: the action of the Prophetic Companions, public interest and its categories, juristic preference and its types customary practice preemptive prohibition, Madinan practice and the presumption of continuance.	
CIS 616	Fatwa, Family and Society This course discusses the fatwas related to the most significant contemporary issues concerning the family and society. It focuses on a methodological study of fatwa issuance, including the principles and modality of assessing such fatwas, while also considering the higher objectives of the shari'a and the changing practices of both families and societies. The course discusses issues such as the financial excesses of marriage expenses, divorce and spinsterhood, female employment, and the wife's rights to the family assets, from the perspective of Islamic jurisprudence and contemporary social studies.	3 credits
CIS 617	Islamic jurisprudence, Politics and the State This course concerns the relationship between Islamic jurisprudence, politics and the state and covers three main debates: Islamic	3 credits

jurisprudence and political authority; politics and the law, and Islamic jurisprudence and the state. The first debate examines jurisprudential theories regarding society, the rulings related to political authority and the ruler, the effect of political change of the jurist and his understanding of his relationship with the state. It also discusses contemporary attempts to synthesize the political discourse that existed before the notion of the modern, nation state, and those that were produced consequently. The second debate concerns the difference between politics and Islamic political theory, the ethical principles that guide politics, and the application of public interest to politics. The third debate is related to differing manifestations of political authority such as the state and the caliphate, and how such concepts impact on subsequent Islamic legal rulings, whether they be in theory or in practice.

3 credits

CIS 618

CIS 619

CIS 620

CIS 621

The Higher Objectives of Sharia and Public Interest

This course discusses the historical development, the most important writings and the theoretical methodologies, developed regarding higher objectives of the shari'a. It also sheds light on the importance of the higher objectives and their role in facilitating ijtihad as a tool to determine the scope and range of public interest. The course highlights the prerequisites required for the application of the higher objectives and elaborates how contemporary thinkers have applied these concepts. The course also discusses how the higher objectives may be applied in contemporary Muslim societies to address a range of critical issues such as: human rights, social justice, security and the preservation of human dignity.

Text and Context: Comparative Textual Readings

This course discusses the relationship between text and context through a variety of jurisprudential texts that display multifarious perspectives and views. The course focusses on the methodological tools required to critically analyze the intent of the authors, engage with their thinking, and place them in their historical, social and political context. Through selected texts, the course navigates a number of legal cases disputed across the ages, elaborates the Islamic legal perspective regarding them and compares them to prior systems such as Roman law and pre-Islamic norms.

Nawazil and Novel Legal Issues

This course discusses the most significant contemporary social issues that affect both the family and society such as smoking, sexual harassment, domestic violence and suicide. The course highlights the social dimension of such issues and proposes how they may be resolved using a variety of jurisprudential methodologies. The course emphasizes a practical approach and combines current sociological studies with innovative legal applications.

Personal Earnings and Economics

This course discusses various categories of financial transactions in Islamic law and demonstrates how jurists historically dealt with such issues. The course also links the higher objectives of the sharia to these financial cases and shows how they have been applied in a contemporary context, particularly in the financial sector and in Islamic banking. The course distinguishes the objectives and reasons for such legal rulings from the financial perspective, and provides actual examples from the contemporary context, to suggest novel solutions to innovative financial transactions that are common in the modern age.

3 credits

3 credits

3 credits

CIS 622	Social Justice, Community Welfare and Sustainable Development In a global context marked by growing inequality and precariousness, social justice has emerged as a major policy concern and popular demand around the world. This course highlights the resources available in the Islamic tradition to advance issues of social justice. The course shows how concerns about social justice were integral to classical Islamic legal scholarship, explores how Islamic concepts might improve on current practices of development and humanitarianism, and examines the challenges that modern structures (capitalism, the modern state, and globalization) pose to innovative solutions.	3 credits	CIS 710	Muslim Encounters with Other So This course proposes to introduce principles that have generally gove non-Muslim societies and how div traditionally interpreted these prin circumstances. The course will hig that Muslims were able to develop societies which might be taken int communities in their encounter wi models of successful interaction h be examined to see what challeng
CIS 623	Muslim Social and Political Systems and Institutions	3 credits		and to what extent Muslims can b
CIS 695	This course discusses Muslim social and political systems and institutions both in their historical contexts and in contemporary society. Such institutions have laid a heavy emphasis on both religious ethics and social values and this course engages with how they have had a positive effect on both the public sphere and social development. Islamic legal theory may be viewed as being at the core of Muslim social and political systems and institutions and the course evaluates the intrinsic relationship between this legal framework and social development in Muslim societies. Master's Thesis Hours	0-6 credits	IAA 600	Independent Project Modelling This is an advanced-level course p the development of problem-solvi and innovative practices to serve organizations or businesses. It of work autonomously on a project of specialization. Students may choos relevance to cultural issues and so approval of their supervisor. This or cultural organizations to deliver their needs; the detailed investigat
CIS 705	Islam and Modernity This course introduces students to institutions, concepts and processes centrally associated with modernity. Focusing on the fields of knowledge, government and economy, the course investigates what	3 credits		of Islamic Art, using knowledge ac or the creation of a display based atrium of the College of Islamic St their knowledge to the broader HE
	is new and distinctive about modern societal contexts. It will examine fields of conflict which have emerged in these contexts. Trajectories of modernity will be investigated in a comparative perspective.		IAA 610	Research and Design Methods This course offers a comprehensi of research techniques and writing on methodological and presentati
CIS 706	Islamic Law and Society The course provides an interdisciplinary exploration of law and society in the Muslim world from medieval to modern times. It presents the main figures and institutions of Islamic legal authority, showing how they have adapted to changing configurations of power. The course discusses various approaches to the study of law in society through case-studies ranging from crime and punishment, marriage and divorce, and economic practice. Particular attention is paid to the study of law and society in the contemporary Muslim world.	3 credits		environment research. Fundament are introduced, including writing a concluding statements. It also invi- between research, reports, articles of various methods for descriptive research. Research projects focus and tools in visual, social and tech of the course involves the develop students utilize selected research

their research proposals.

3 credits

ther Societies

troduce students to the overarching ally governed Muslim interaction with various how diverse Muslims communities have ese principles under similar and varying e will highlight some of the best practices develop in their interaction with other aken into consideration by non-Muslim unter with others. Furthermore, contemporary action between religious communities would shallenges they pose to Muslim communities s can benefit from such models.

course promoting practice-based learning and m-solving techniques, critical thinking skills o serve cultural institutions, governmental es. It offers the students an opportunity to roject of their choosing related to their chosen ay choose a topic, art object, or a theme of s and societal needs, to be devised with the r. This may involve engagement with industry o deliver a small-scale tailored projects to suit vestigation of a single object at the Museum edge acquired in other parts of the program; based on object replicas or images in the amic Studies with a view to disseminating ader HBKU community.

This course offers a comprehensive understanding of basic principles of research techniques and writing in architecture. Emphasis is placed on methodological and presentational aspects of architectural and built environment research. Fundamental aspects of communicating research are introduced, including writing and presenting research findings and concluding statements. It also involves knowledge of differentiating between research, reports, articles and critical essays; an investigation of various methods for descriptive, analytical, explanatory, and critical research. Research projects focus on applying research techniques and tools in visual, social and technical terms. An integral component of the course involves the development of a thesis proposal where students utilize selected research tools and techniques in shaping 3 credits

IAA 611

	This course is an introduction to the art and architecture of the Islamic world from the emergence of Islam in the 7th century until the Mongol invasion of Iraq and Iran in the mid-13th century. It focuses on major monuments and developments in the arts, such as calligraphy, mosaics and ceramics, under the Umayyad Empire, the Abbasids, and their successor states in the vast regions between North Africa and the Iranian world. In each context, objects and buildings will be studied both in relation to each other and as witnesses of the social life and cultural sensitivities of their time, using insights from textual sources. Issues of interpretation will be critically considered.	
IAA 623	History of Islamic Art and Architecture II (1250-1900)	3 credits
	This course is an introduction to the art and architecture of the Islamic world from the Mongol invasion of Iraq and Iran in the mid-13th century until the fall of the Ottoman and Qajar empires in the early 20th century. It investigates such topics as the emergence of a new synthesis under the Ilkhanid and Timurid dynasties in Iran and Central Asia; the art and architecture of the Mamluk Sultanate in Egypt and Syria; and the three early modern empires of the Ottomans in the Mediterranean world, the Safavids in Iran and the Mughals in India. In each context, objects and buildings will be studied both in relation to each other and as witnesses of the social life and cultural sensitivities of their time, using insights from textual sources. Issues of interpretation will be critically considered.	
IAA 625	Survey of Architectural Typologies of the Islamic World	3 credits
	This course aims to instill in the student a broad awareness of the diversity and the main achievements of Islamic architecture and the various typologies developed from the beginnings of Islam. It offers a chronological development of art and architecture in selected notable regions, the wide surveys will highlight the development of architectural designs of the Islamic world from the 7th through the 19th centuries, utilizing a wide spectrum of materials and production. The course examines the built form, functions, and activities relevant to the social,	

historical and cultural contexts, patterns of use, and evolving meanings

attributed to buildings by their communities.

History of Islamic Art and Architecture I (650-1250)

IAA 631 **Islamic Objects and Manuscripts**

IAA 632

IAA 633

Museum and Exhibition Studies

This course equips students with critical and practical skills to approach the display of Islamic in the context of museums. Issues related to the politics and socio-cultural context of display will be combined with aspects of exhibition planning, management and public interaction. This course provides an academic exposure toward the mechanisms of objects and art display in museums and exhibitions. The aim of the course is to explore and synthesize aspects of exhibition planning, management and public interaction either for physical and virtual museums. The course will cover systems and techniques of critical writing for exhibitions and displays for Islamic arts and objects. Students will gain the methods of organizing galleries and teaching spaces; this will include mounting displays and organization plus techniques and requirements for evaluating museum events and visits.

Mosque Architecture Design

This course introduces the architecture of mosques in different regions from the Andalusia, North Africa, Middle East, Fareast, and contemporary mosques in western cultures. Different aspects of old and contemporary mosques are introduced highlighting the mosque as a building type that became a symbol that functions as a point of reference, and provides an umbrella under which people of a common belief may unite and interact for legitimate human activities. This course develops design propositions from a close and critical engagement with significant built and un-built architectural and mosques exemplars. Working with changing and enduring values and associated questions of style, longevity and contemporaneity, students design a mosque project that anticipate future needs and respond to existing built fabric. Reflective and analytical drawings of precedents inform the production of projects that engage with cultural and disciplinary histories. Constraints for designing mosques are discussed with supporting cases that address typological issues, detailed design, ornamentation, and the impact on the surrounding community.

3 credits

3 credits

This course offers students an opportunity to build up skills specific to key media in Islamic art, such as manuscripts, textiles and carpets, mosaics, woodwork, ceramics, metalwork and glasswork. It will involve hands-on sessions with objects at the Museum of Islamic Arts in Doha. Students will thus gain direct exposure to these different types of object and knowledge of published resources to aid their rigorous analysis.

3 credits

Islamic Architecture and Urbanism in the 20th & 21st Centuries

Connecting the architecture of the Arab world to various interrelated issues such as Westernization, modernization, and the relationship between the architect and the state. This course discusses the evolution of architecture in the eastern Arab world during the 20th and 21st centuries. Its geographic scope emphasizes Egypt, the Arabian Peninsula, and the Fertile Crescent. The course examines the production of certain works of architecture in the region as creative undertakings that address specific functional programs and physical givens ranging from technological conditions to climatic factors. It also presents the architecture of the region within the context of prevailing social, cultural, economic, and political forces while taking into account the urban transformations that took place in the 19 century worldwide and in many Islamic cities as well as issues of East-West interactions, modernity, tradition and heritage. The course links that architecture to the volatile conditions that have defined the evolution of the region during the period under consideration, and that have given the region considerable (and some would argue disproportionate) weight within the context of international politics.

IAA 635 **Contemporary Cities for Muslim Societies**

This course offers a series of positional interpretations and discussions of contemporary architecture in Muslim communities. It addresses the irony of identity, tradition, and modernity by critically outlining a number of aspects related to the status of architecture in selected Muslim cities including Aleppo, Cairo, Doha, Dubai, and other cities. Through a reading of trends that emerged over the three decades, students will be introduced to the concepts of Pan-Arabism, Mediterranean-ism and middle eastern-ism, post traditionalism, post colonialism, globalization, post-globalization, and the space of flows and their implications on the shaping of architectural identity in Muslim communities.

3 credits

3 credits

IAA 636

Middle Eastern and Gulf cities currently seem to be heavily under construction and rapidly globalizing. Some Gulf cities have been at the forefront of developing into a postmodern city, and other cities in the region have been presenting themselves as attractive locations and global hubs. While some are considered as Port cities, they are outstanding examples of integration into global networks. Evidently, economic ambitions-from fostering trade and production to stimulating tourism, sports and leisure industries-are important factors behind this. However, this brave new world is not without new ruptures, deepening fractures and increasing inequalities. Thus, this course will deal with manifold dimensions of contemporary urban development in the Middle East, with specific focus on the cities of the Arabian Gulf, including economic aspects and social consequences. To situate and interpret these case studies, the course will also engage in understanding and debating theoretical and conceptual approaches and recent interdisciplinary findings from comparative perspectives.

IAA 641

This course provides a comprehensive discussion of the changes in urban land use and the socio-economic structure of urban settings in Muslim countries. Goals, plans and operations of adaptive reuse and regeneration of traditional as well as modern districts are discussed. Case studies from historic Middle Eastern and European cities are analytically presented. The course involves a theoretical basis for the understanding of design in the built environment, and an appreciation of the evolving integration of aspects of design and regeneration in different types of environments. The theoretical material will include consideration of aesthetics, urban morphology, rural settlement, design methods and sustainable development, and will encourage multidisciplinary and critical perspectives on these aspects.

3 credits

Globalization, Cities and Urban Policies

Urban Interventions in Historic Islamic Cities

42

Physical Spaces and Spatial Humanities in Digital Societies

Since the development of various digital gazetteers, physical environments and spaces have been involved in the digital humanities studies to examine the people's interaction and viability of spaces in digital forms. This module will explore this new phenomenon from a dual standpoint: (1) attention will be paid to the way our perception of physical and digital spaces evolved over the last years following the massive adoption of digital tools and platforms in our daily life and (2) the course will study how digital technologies interact with a spatially enabled database to retrieve and display results, and how they can add map-based interactive elements to various digital platforms. In this course, students will study how geographic information from history, archaeology and Cultural Heritage is organized using the appropriate digital tools in relation to place making and consumption. By using spatial data, students will elucidate people's behavior and interactions toward the physical environments and help in reshaping liable places to suit the societal needs and traditions. In order to reach successful and reliable results, the course will look at the basics of digital imaging, Geographic Information System (GIS), Space Syntax Analysis, and 'Volunteered Geographic Information' which underpins the maps on our tablets and smartphones, and consider how geography features in digital literary and textual analysis.

IAA 643 Types and Typologies of Domestic Architecture

This course explores the domestic sphere in an Islamic context. It aims to familiarize students with the history, structure, and social use of residential forms in areas that are now a part of Arabia, North Africa and Egypt, Greater Syria, Iran, Irag, Turkey and the Ottoman Balkans. The course involves an overview of the ways these spaces have been imaged and imagined in art, literature, films, and scholarly texts. This course starts with the development of an aspirational design brief that accurately registers the culture and needs of existing and / or potential users. Skills are developed in the respectful apprehension of cultural and physical diversity and in the effective deployment of domestic architecture. Methods of communication that are accessible to lay audiences and which convey experiential gualities are employed at all stages of the design process in order to know how domestic architecture in Islamic societies contributed to the understanding of typological processes, urban fabric, and organisms.

IAA 695 Master's Thesis Hours

3 credits	IFI 605	Islamic Financial Contracts The course provides a rigoro from the perspective of finan making significant investmer also be exposed to critical vie finance perspective. Major to capital structure, corporate v and acquisitions, dividend por in corporate finance.
	IFI 606	Islamic Economics and Deve This course provides student of analysis they have learned behavior in an economy whe The course prepares the stud development in Islamic econ and knowledge in order to an policies within an Islamic fram
3 credits	IFI 607	Islamic Banking and Financia This course provides a comp principles of Islamic banking compares the Islamic financi with specific reference to liqu `markets in theory and practi to the fundamental principles as well as modern practices
	IFI 608	Strategic Management in Isla This course introduces a stra finance in a holistic way by in such as marketing, finance, a information systems, and hu the topics include competitiv competitiveness, internationa

0-6 credits

3 credits

vides a rigorous introduction to applied corporate finance ective of financial managers who are responsible for ant investment and financing decisions. Students will d to critical views of corporate finance from an Islamic ctive. Major topics covered include capital budgeting, e, corporate valuation, corporate restructuring, merger is, dividend policies, and application of real options

nics and Development in Theory and Practice

ovides students with an opportunity to use the tools have learned in mainstream economics to analyze economy where Shariah and Islamic Ethics run supreme. pares the student to critically examine the theoretical Islamic economics. This course provides students skills in order to analyze existing economic and development an Islamic framework.

g and Financial Markets

ovides a comprehensive orientation on the foundational amic banking and financial markets. The course slamic financial markets with conventional mechanisms ference to liquidity instruments, money and capital ory and practice. This course exposes students ntal principles underlying modern Islamic finance, ern practices prevailing in this industry.

gement in Islamic Finance

roduces a strategic management perspective to Islamic istic way by integrating various specialized functions ting, finance, accounting, economic, management stems, and human resource management. Some of de competitive strategy, industry analysis, global s, international management, strategies for adjusting to the social, political, and economic environment, approaches for developing and implementing strategic plans in organizations, managerial values and ethics, and social issues in business.

3 credits

3 credits

IFI 615	Islamic Corporate Finance	3 credits	IFI 703	Islamic Economics and Sustaina
	The course provides a rigorous introduction to applied corporate finance from the perspective of financial managers who are responsible for making significant investment and financing decisions. Students will also be exposed to critical views of corporate finance from an Islamic			This course provides students wi of analysis they have learned in n behavior in an economy where Sh The course prepares the student
	finance perspective. Major topics covered include capital budgeting, capital structure, corporate valuation, corporate restructuring, merger			development in Islamic economic course provides students with sk
	and acquisitions, dividend policies, and application of real options in corporate finance.			economic and development polic
			IFI 704	Applied Quantitative Methods
IFI 691	Internship This course helps students willing to pursue a career in the industry to work on an industry related project. This elective also supports the collaboration initiatives with the industry whereby industry-related research projects could be sourced from the industry. Students complete an individual project with external clients whereby they are able to put together what has previously been learnt in the study	3 credits		The course focuses on applied que for finance using financial calcula include: Net Present Value; Amor Statistics; Probability; Inferential Linear Regression; Time-Series M Empirical Research; Excel-based
	program.		IFI 705	Legal, Regulatory and Institution
IFI 695	Master's Thesis Hours	0-6 credits		This course helps students analy and supervisory issues related to Topics include financial stability,
IFI 701	Analysis of Financial Statements with Applications to Islamic Banks This course teaches the tools for assessing the past performance and future prospects of Islamic banks, conventional banks, and other nonfinancial firms using financial statements. The course covers techniques that are often used by financiers for evaluating credit and	3 credits		contextualization of the developm corporate governance, Shari'ah g and IFIs, national and internation frameworks and institutions, and
	investment decisions; by corporate managers for assessing efficiency, performance and new opportunities; and by industry analysts, observers and regulators. Prior knowledge of accounting and finance is helpful but not necessary. Topics include: financial ratios; profitability analysis; risk analysis; forecasting financial statements; valuation models.		IFI 706	Independent Studies Independent Studies course enab allow more space for more resea career and research aspirations a background. This course compris supported and complemented by
IFI 702	Sustainable Finance and Impact Investing	3 credits		It is designed for students to und
	The course provides a rigorous introduction to sustainable Finance and impact Investing from the perspective of financial managers who are responsible for making significant investment and financing decisions. Students will also be exposed to critical views of sustainable Finance and impact Investing from an Islamic finance perspective. Major topics			area of Islamic finance and econo

covered include green finance, sustainable and responsible investing, green and SRI sukuk, blended finance and venture philanthropy.

nable Development

with an opportunity to use the tools n mainstream economics to analyze Shari'ah and Islamic Ethics run supreme. ent to critically examine the theoretical mics and sustainable development. This skills and knowledge to analyze existing plicies within an Islamic framework.

d quantitative and econometric techniques sulators and computer software. Topics nortization Schedules; Descriptive al Statistics; Hypothesis Testing; Classical & Modeling; Volatility Modeling; Panel Data; ed Financial Modeling.

ional Aspects of Islamic Finance

alyze legal, institutional, regulatory, to Islamic financial institutions (IFIs). ty, risks in IFIs, legal and regulatory opment of Islamic financial services, n governance, financial inclusion, SDGs onal financial regulatory and supervisory nd country experiences.

nables a more personalized study plan and search which is tailored toward student's as and is more linked to their field and prises a supervised research project I by class and supervisory discussions. undertake original research in a selected onomics.

3 credits

3 credits

3 credits

IFI 707	Islamic asset, Funds & Portfolio Management	3 credits	IFI 711	Selected Topics in Applie
	The course introduces students to recent and emerging developments			This course builds on the
	in the Islamic and responsible asset and mutual fund management			by extending students qua
	universe. It applies the modern technique to build, implement,			level and to expose them
	and assess optimal Sharia-compliant portfolios in the equity, Sukuk,			This course will also pres
	and equity-Sukuk hybrid markets. Contemporary and emerging trends			principles for cross section
	in responsible investments such as ESG concerns and technological			The theoretical skills of m
	revolution such as Fintech's. The course is a companion of Islamic			the functional skills of so
	Corporate Finance but can also be beneficial as a standalone			practical knowledge to be
	elective course.			
151 700		2 and the	IFI 800	Circular Economy and Co
IFI 708	Selected Topics in Applied Econometrics	3 credits		An Islamic Perspective
	This course builds on the quantitative techniques in Islamic Finance			This course aims to stren
	by extending students quantitative research skills to an advanced			dealing with theoretical a
	level and to expose them to the various databases in Islamic Finance.			comprehensive developm
	This course will also present an advanced treatment of econometric			topics. The course prepar
	principles for cross sectional, time series and panel data sets. The theoretical skills of measurement will be accompanied with			theoretical progress of de
				in general and to propose
	the functional skills of software packages and combined with the practical knowledge to be able to make precise policy implication.			within an Islamic perspec National Vision and UN S
	practical knowledge to be able to make precise policy implication.			prepares students in und
				opportunities of transforr
FI 709	Behavioural Islamic Economics and Finance	3 credits		opportunities of transform
	This course exposes students to behavioral economics and its			
	applications in the Islamic Finance. Behavioural Economics helps		IFI 801	Entrepreneurship, Ethics
	understanding how psychological aspects like emotions and group			The course aims at equip
	dynamics influence economic decisions. The course has two main			of the pivotal role played
	objectives: 1) Reviewing main evidence provided by psychological			and promoting inclusive a
	and experimental economics on violations of classical economic			Entrepreneurship is a visi
	assumptions such as perfect rationality, self-interest, time consistency,			together economic resou
	etc.; 2) Providing behavioral insights in explaining anomalies in different			the society. The course is
	fields of economics such as Industrial Organization, Labor Markets,			ethics and love of fellow h
	and Finance.			the vision of "being mercy
				finance as a support and
IFI 710	Fintech and its Islamic Finance Applications	3 credits		social enterprises.
	IT-enabled innovations have reshaped the finance industry, leading to			
	the emergence of Fintech. Big data analytics have changed how financial		IFI 802	Applied Econometrics
	information is disseminated, processed and analyzed. Individuals and			This course aims to prese
	institutions which are able to leverage the new IT to analyze the big			methods in applied econo
	financial data will have a leading edge in academia and in practice.			economies cantered on lo
	It seeks to equip students with these highly coveted skills in the market			expected to learn and be a
	with the explications to lelancia and evotainable finance instruments			and valay ant a a manatria

with the applications to Islamic and sustainable finance instruments

like P2P lending and Blockchain.

3 credits

ics in Applied Econometrics

builds on the quantitative techniques in Islamic Finance students quantitative research skills to an advanced xpose them to the various databases in Islamic Finance. vill also present an advanced treatment of econometric cross sectional, time series and panel data sets. al skills of measurement will be accompanied with I skills of software packages and combined with the wledge to be able to make precise policy implication.

omy and Comprehensive Development:

tims to strengthen the student's analytical ability when theoretical and empirical issues in the areas of Islamic ve development and other related Islamic economic growth ourse prepares the student to participate effectively in the ogress of development theories and economic paradigms d to propose innovative economic and development policies mic perspective. In the light of Maqasid Al Sharia, Qatar on and UN Sustainable Development Goals the course dents in understanding the modalities, challenges and of transforming economies from linear to circular.

ship, Ethics and Sustainability

ims at equipping the student with a deep understanding role played by the entrepreneurs in developing businesses og inclusive and sustainable economic growth and wealth. ship is a vision combined with abilities and skills to put nomic resources in such a manner that create benefit for the course is designed to embed entrepreneurship with we of fellow human beings and other species to achieve "being mercy" for all. The course uses Islamic social support and enabling institutional mechanism in developing

This course aims to present and discuss the most important statistical methods in applied economics and finance relevant for emerging economies cantered on local aspirations. In the course students are expected to learn and be able to apply the different types of appropriate and relevant econometric techniques in their research.

3 credits

3 credits

IFI 803

This course aims at equipping the students with tools of engineering
and structuring Islamic finance contracts for different needs of
economies transforming from linear to circular and in the rapidly

the rapidly economies transforming from linear to circular and changing market, technological and regulatory environment. Students will be able to link the design of financial contracts with the needs of a circular economy. Students will learn structure green, social and sustainable financial products meeting the needs for liquidity management, personal finance, SME finance, bridge finance, and longterm finance etc. The course also elaborates on alternative Sukuk structures and the choices of different bases for designing Sukuk such as contract combination.

Islamic Financial Structuring: Strategies and Contracts

IFI 804	Applied Topics in Usul al Fiqh and Maqasid Al Sharia
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This course introduces students to the methodology of ljtihad in Islamic law so that they will know the bases of Sharia financial rules and the way these are derived from the sources. The course intents to help students to understand the bases of differences in Islamic Figh schools, the reasons why jurists differ and the weight of different legal opinions. This course also aims to equip students with the necessary knowledge of the most important concepts in Magasid al Sharia and their applications in Islamic finance and policy implication for economic transformation from linear to circular economies.

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IFI 810
                 Advanced Corporate Finance and Investment
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This course will provide the students with sound theoretical and empirical knowledge and techniques of corporate finance with applications to Islamic finance and circular economy. The aim is to increase the student's curiosity for research topics in this field and sharpen their critical perspective with respect to corporate finance issues. Upon successful completion of the course, the students will be able to both understand and analyze terminologies and explore the frontiers of modern corporate finance and corporate governance.

IFI 811 Advanced Topics in Micro and Macro Economics: Islamic Perspectives This course will focus on the analytical tools of modern Microeconomics and Macroeconomics and analyze strategic behavior of rational decision making in situations of conflict and other interactions. It also attempts

to equip students with the macroeconomic frontier issues relevant for their research in area of policies on Islamic banking and finance and Islamic economics.

3 credits	IFI 812	International Islamic Economic and
		The aim of this course is to enable contemporary development in the t economics, economics of internation institution, international financial re
		with domestic policies and develop
	IFI 813	Islamic Social Finance and Empow
3 credits		The third sector translated into soc role in the economies of many cour it a very prominent role in correcting functional distribution of wealth an forward deep understanding of the as it includes ethical and application rights of the vulnerable and deprive the venture philanthropy concept to and medium businesses in the circ
	IFI 814	Islamic Economic History and Tho
		This course aims at developing crit innovative solutions and approache institutions in an objective way. Stu and try linking these with current pr
3 credits	IFI 815	Governance Legal and Regulatory
3 credits		This course aims to prepare the stu- building blocks and the architectura infrastructures that are needed for Islamic financial services industry. to understand why and how Islamic and the legal environment under wh being offered all over the world. The assess the Sharia governance proc Students are expected to undertake of integrated reporting.
	IFI 816	Advanced Risk Management of Isla
		This course aims to provide better risks that are embedded with the ba these to the risks underlying the Isl understand the importance of risk in general and in the Islamic bankin

۱d	Financial	Relations	

3 credits

3 credits

of this course is to enable the student to understand prary development in the theories and practices of international s, economics of international giants and international , international financial relations and their interactions estic policies and developments.

ocial Finance and Empowerment

sector translated into social finance plays a very important economies of many countries and the Islamic system gives rominent role in correcting the inequalities that result from the distribution of wealth and income. This course aims at putting eep understanding of the economics of Islamic philanthropy des ethical and application issues in addition to Islamic human he vulnerable and deprived in the society. The course builds on re philanthropy concept to develop socially responsible micro um businesses in the circular economy.

conomic History and Thought

se aims at developing critical thinking for developing e solutions and approaches by looking at history of thought and is in an objective way. Students shall raise critical questions king these with current practices and offer guided solutions.

ce Legal and Regulatory Issues of Islamic

se aims to prepare the students to understand the institutional locks and the architectural foundations as well as financial tures that are needed for the working of a sound and resilient nancial services industry. It aims to enable the students tand why and how Islamic financial services are regulated cal environment under which Islamic financial services are ered all over the world. The students will be able to critically e Sharia governance process for a circular economy. are expected to undertake case studies about the state

Risk Management of Islamic Financial Institutions

se aims to provide better understanding of various types of are embedded with the banking business in general and relate he risks underlying the Islamic banks and financial institutions; nd the importance of risk management in the banking industry and in the Islamic banking industry in particular.

3 credits

3 credits

IFI 817	Financial Analysis and Portfolio Modelling This course aims to enable the students to analyze financial statements of companies, NGOs (for example, Waqf) and financial institutions, especially banks from various perspectives including that of investor or potential investor, lender (bank credit analysis), manager (to improve performance) and donor (to ensure effectiveness of charitable programs). The course also aims to give a thorough grounding in portfolio management and evaluation/assessment. While there are different topics that must be analyzed or studied on investment	3 credits	IFI 840	Islamic Finance Independent Studies Independent Studies course enables a m and allow more space for more research students' career and research aspiration and background. This course comprises supported and complemented by class It is designed for students to undertake area of Islamic finance and economics.
	companies, the course focuses on the most recent innovations in asset allocation with a special view on the practical implementation of asset allocation models and their evaluation from the perspectives of Islamic finance.		IFI 841	Sustainable Economy Independent Stud Independent Studies course enables a n and allow more space for more research students' career and research aspiration
IFI 821	Advanced Topics in Islamic and Sustainable Economy This course enables students to explore the theories, models, and constructs related to the study and practice in sustainability. The course introduces students to the current state of knowledge on various topics	3 credits		and background. This course comprises supported and complemented by class It is designed for students to undertake area of Islamic finance and economics.
	including theories and models of growth and sustainable development, analysis & application in traditional and Islamic perspective; comprehensive human development and linkages between QNV, SDGs and Maqasid Al-Sharia; environmental concerns, the linear production,		IFI 890 IGA 600	Dissertation Islamic Worldview
	and circular production models.		IGA 600	The onset of modernity shook the Musli and sparking renewed commitments an
IFI 822	Advanced Topics in Islamic and Sustainable Finance This course exposes our PhD student to the latest empirical research in Islamic and Sustainable Finance. This will help them to identify relevant gaps and new research questions in the literature which requires answers through further research. The course includes advanced readings in selected topics in Islamic and Sustainable Finance. The course will provide profound knowledge in Islamic and sustainable finance and enable students to navigate to navigate the research literature and develop their own research agenda.	3 credits		meaning and essence of an Islamic wor a foundation for understanding the Islar other competing ideologies, such as libe rights. It examines some of the contemp and opportunities for the Islamic worldv globalization and universalism. Furthern perceived contestations between the me and the tangible impact this has on glob
			IGA 605	Research Methods
IFI 823	Advanced Research Methods The course is designed to aid graduate students to improve their writing and research skills and is specific to Islamic and Sustainable Finance. It includes an overview of the writing mechanics and process, how to properly conduct research, cite sources and guidelines for writing papers. This course is more suitable for students who want to conduct a dissertation using qualitative and quantitative research techniques and extend the basic knowledge students learned in the general research methods course.	3 credits		This course provides training in research of the social sciences and Islamic studie with an understanding of the foundation Students will be introduced to a range of necessary to undertaking research and in various settings.

3 credits

3 credits

bles a more personalized study plan research which is tailored toward spirations and is more linked to their field mprises a supervised research project y class and supervisory discussions. dertake original research in a selected nomics.

ent Studies

bles a more personalized study plan research which is tailored toward spirations and is more linked to their field mprises a supervised research project y class and supervisory discussions. dertake original research in a selected nomics.

0-9 credits

3 credits

ne Muslim world reigniting debates nents and conceptualizations on the mic worldview. This course provides the Islamic worldview in comparison to h as liberalism, secularism and human contemporary challenges, obstacles c worldview in the context of terrorism, Furthermore, it explores the real and n the modern and the Islamic worldview on global affairs.

research methods from the perspective ic studies. It aims to equip students undations of social scientific research. range of core research skills that are rch and designing research projects

IGA 611	Introduction to Islam and Global Affairs This course introduces the fundamental theories and concepts in understanding the nexus of Islam and global affairs. The course presents fun framework for understanding, practicing, and evaluating development, peacebuilding, human rights, governance and institutional reform, sustainability, global health, and related areas. It will begin by examining both the Western and Islamic theories and conceptual frameworks and provide a cross-disciplinary examination of issues central to global affairs, with a particular grounding in theories of	3 credits	IGA 627	Special Topics in Islam a This course addresses a based on the time it is of of the cohort, global tren with global organizations intends to equip students that are of critical import
	international relations.		IGA 628	Globalization & Faith Base This course examines th of protecting and promot
IGA 612	Global Inequalities The course examines various manifestations of global inequalities such as poverty, access to employment, basic human services, etc. The course sheds light on the state of Muslim economies and their performance in meeting United Nation Sustainable Development Goals and other globally accepted indicators of development. Furthermore, the course looks into the role of Islamic beliefs, values and ethics in addressing the challenges brought by global inequalities.	3 credits		from national security. For organizations have been global elites to NGOs, int bodies—work together to faith based mechanisms particular attention to int building that promotes a global order.
IGA 613	Islam, Conflict Transformation and Peacebuilding This course is introduces the students to the theories and practices of peace studies. It examines various theoretical and conceptual frameworks that shape the field and assesses their applicability within different contexts. The course also highlights critical issues that are directly related to the practices of peacebuilding and conflict transformation.	3 credits	IGA 629	Humanitarian Actions in The course aims to provi introduction to the proce responses to war-related interventions in situation recovery in the Muslim w critical and constructive the implementation of hu
IGA 622	Islam and Global Governance The course introduces students to the structures and actors of international Muslim organizational work against the background of the emergence of world polity structures since the early 20th century.	3 credits	IGA 689	humanitarian responses offering insights into the Integrative Lab Under the supervision of
	It surveys the development of multilateral cooperation structures such as the United Nation and its affiliates and the range of Muslim organizational work ranging from international cooperation in different fields to educational and relief organizations.			to work in collaboration v or a similar entity and co project undertaken.
			IGA 695	Master's Thesis Hours

n and Global Affairs

s a wide spectrum of topics which may vary offered. Depending on the specific interests rends and Integrative Lab Projects in partnership ons affiliated with the IGA program, the course ents with pressing challenges, issues and areas ortance for Islam and Global Affairs.

Based Development

the locus of faith-based development as a form noting human security as a concept distinct . Faith based development and the role religious en playing through transnational actors—from intergovernmental organizations to supranational r to promote human wellbeing fostered by ms, agenda and tools. The course emphasizes integral human development and community s alternative forms of security in a transforming

in the Muslim World

ovide students with an interdisciplinary becesses, events and policy debates shaping ted humanitarian crises, including emergency fons of ongoing-armed conflict, and post-conflict in world. It enables students to make independent, we contributions to humanitarian policies and humanitarian activities. The course will analyze es with a particular focus on the Muslim World he complexity of local realities in afflicted regions.

of a faculty member, student is assigned on with a local or an international organization conduct research that is useful for the thesis

3 credits

3 credits

3 credits

3 credits

0-6 credits

ISF 602	Principles and Objectives of Islamic Law This course introduces the students to the methodology of Ijtihad in Islamic law through the study of principles and objectives of Islamic law. The course introduces the students to the various Sharia sources and explains to them how Sharia financial rules are derived from the sources. The course is also designed to help students understand the bases of differences in Islamic Fiqh schools, the reasons why jurists differ, and the weight of different legal opinions. This course also aims to equip students with the necessary knowledge of the most important concepts in Maqasid al Sharia and their applications in Islamic finance.	3 credits	ARA 501	Arabic Language and Culture Learners will be guided to under the exposure between them and by comprehending written symb sounds. To distinguish between initially and then linking them in to understand the logic of the sy a functional manner; to reach th listening, speaking, reading and
ISF 605	Research Methods The course is designed to aid graduate students to improve their writing and research skills and is specific to Islamic and Sustainable Finance. It includes an overview of the writing mechanics and process, how to properly conduct research, cite sources and guidelines for writing papers. This course is more suitable for students who want to conduct a dissertation using qualitative and quantitative research techniques and extend the basic knowledge students learned in the general research methods course.	3 credits	ARA 502	Arabic Language and Culture Le Students acquire a higher level more advanced contexts and se Texts on Arab history, contempo and landmarks, will be presente Students study fragmented pres in Arabic on various topics such community affairs and topics th to help them to produce their ov
IST 621	Sustainable Islamic Urbanism: Past and Present This course offers a contemporary understanding of the Muslim city. It draws heavily on the writings of key scholars and the way in which each has developed his/her thoughts on the role of Islam in shaping the urban form, and the overall built environment. The course covers issues that pertain to Islamic perspectives to urban spatial structures, the physical aspects of the urban form, and the role of the socio-cultural factors and legal system in the formation of Muslim cities. This course is the equivalent of UDA 620.	3 credits	ARA 503	Arabic Language and Culture - Students receive a wide range of civilization and Arab thought, te affairs in the world. All of this is and writing, so that students tak and ~adopting [™] the language in and then presenting them orally important topics of diverse eco
IST 636	Quranic Civilizations, Geography and Archeology This course provides an in-depth study of the different human civilizations relevant to the Quran in different contexts, including the historical, geographical, and environmental. It compares the content of the Quran with modern archaeological discoveries and prepares students to investigate the archaeological records mentioned in the Quran to understand the history of mankind and the evolution of cultures	3 credits		

and civilizations.

Learning - Beginner level

derstand the elements of the language, and the language will be through writing, mbols or images of letters and their een vocabularies in the context used in sentences and paragraphs. Aiming e syntax and understand the grammar in in the desired competence in the skills of nd writing.

Learning - Intermediate level

el of vocabulary and grammar through sets of cognitively and culturally rich texts. nporary issues, famous Arab personalities nted to provide a rich and varied dictionary. ress texts from newspapers published uch as: environment, politics, economics, s that suit the potential of students in order own texts.

- Advanced level

e of high-level texts representing the Arab texts that address the current state of is invested in the service of conversation take the greatest role in creating their texts in dialogues derived from Arab societies, ally or in writing. Students will speak on conomic, social and political dimensions.

0 credits

0 credits



College of Science and Engineering

The College of Science and Engineering (CSE) aims to be a world-class multidisciplinary college with significant positive impact on Qatar, the region, and globally, in the fields of science, engineering, and technology. To accomplish this, we are advancing knowledge and nurturing technically grounded leaders and innovators through teaching and research across a range of carefully targeted programs. The college aims to serve societal needs, with a focus on an integrated multi-disciplinary curriculum and multi-disciplinary research in science and engineering.

For more information, **CLICK HERE**

Academic Programs

Bachelor of Science in Computer Engineering

The aim of HBKU's Bachelor of Science in Computer Engineering program is to produce globally competitive computer engineering professionals for Qatar, the region, and the wider world.

The program is built on HBKU's unique model of developing interdisciplinary programs that draw on the expert knowledge of its partner institutions alongside its own faculty. This means that students are able to take courses provided by Texas A&M University at Qatar and Carnegie Mellon University in Qatar in addition to the comprehensive range of course offerings from HBKU.

For more information, CLICK HERE

Master of Data Analytics in Health Management

The Master of Data Analytics in Health Management (MDA-HM) program is the first of its kind in the world and aims to train talented scientists and researchers to effectively contribute to the design and implementation of data analytic tools in health care systems in Qatar and beyond. The HBKU MDA-HM program aims to equip students with knowledge of the latest advances in the tools and principles of big data handling and analysis and their application in managing the ever-growing health data.

For more information, CLICK HERE

Master of Information Systems in Health Management

The Master of Information Systems in Health Management is a unique program designed to prepare students for professional roles in the design and management of information systems and services in healthcare organizations.

While Qatar has already started the digitization of health records and implementation of digitalbased data collection and storage systems, there is limited access to expertise in implementation and management of such health information systems.

For more information, CLICK HERE

Master of Science in Cybersecurity

Cybersecurity is a multidisciplinary field addressing issues that ensure secure and reliable operations at all levels of interconnected computing and networking systems. The Master of Science in Cybersecurity is designed to train graduate scholars, professionals, entrepreneurs, leaders, and researchers in the advanced knowledge and skills required to fully understand and implement the technologies, tools, management methods, and policy issues related to cybersecurity.

This Master of Science program not only covers multidisciplinary fields related to cybersecurity technology but also examines policy, ethics, and management related to IT security and cyber threats. The program leverages strong partnerships and collaborations both within HBKU and beyond the university. Delivery of the program involves collaborations with HBKU's research institutes, most notably with QCRI.

For more information, CLICK HERE

Master of Science in Data Science and Engineering

The Master of Science program in Data Science and Engineering aims to provide students with a strong foundation in data engineering, 'big data' science, and data analysis. The program integrates the knowledge, expertise and educational assets of HBKU and its research institutes in data collection, management and analytics, and scalable data-driven knowledge discovery, as well as the fundamental concepts behind these techniques.

For more information, CLICK HERE

Master of Science in Logistics and Supply Chain Management

The Master of Science (MS) and Doctor of Philosophy (PhD) programs in Logistics and Supply Chain Management (LSCM) offer innovative multidisciplinary curricula featuring a unique learning and research experience for students. During the course of their academic studies at CSE's Division of Engineering Management and Decision Sciences, students will develop essential skills and a knowledge of engineering, management, and decision-making processes.

For more information, CLICK HERE

Master of Science in Sport and Entertainment Management

The Master of Science in Sport and Entertainment Management (MSEM) is offered by Hamad Bin Khalifa University's College of Science and Engineering (CSE), working toward a joint degree with the University of South Carolina (USC). Identified as the first master's degree in sports and entertainment management in Qatar and one of a few in the MENA region, the program trains and prepares students for management and leadership roles in the sports and entertainment industries. In 2018, USC's MSEM program was ranked number 6 worldwide by Sport Business International.

For more information, **CLICK HERE**

Master of Science in Sustainable Energy

CSE's Sustainable Energy Master's program provides students with extensive knowledge in topics related to sustainable energy and the impact of growth, urbanization, transportation and manufacturing on energy and overall sustainable development. The programs also look at the implications and drivers of sustainable policymaking on society, the economy, and the environment.

For more information, **CLICK HERE**

Master of Science in Sustainable Environment

CSE's Sustainable Environment Master's program provides students with extensive knowledge in topics related to sustainable environment issues. These include the effect of human development on the environment; the causes, impact and control of pollution; and the demands of a growing global and regional population and economic development on natural resources and the environment.

For more information, CLICK HERE

PhD in Computer Science and Engineering

CSE's PhD program in Computer Science and Engineering provides students with a solid, fundamental and advanced education, as well as strong research experience and a broad understanding of aspects related to computer science and engineering that will translate into exciting, challenging, and well-compensated job opportunities in this high-demand field.

For more information, CLICK HERE

PhD in Logistics and Supply Chain Management

The Doctor of Philosophy (PhD) in Logistics and Supply Chain Management (LSCM) offers innovative multidisciplinary curricula featuring a unique learning and research experience for students. During the course of their academic studies at CSE's Division of Engineering Management and Decision Sciences, students will develop essential skills and a knowledge of engineering, management, and decision-making processes.

For more information, CLICK HERE

PhD in Sustainable Energy

CSE's Sustainable Energy PhD program provides students with extensive knowledge in topics related to sustainable energy and the impact of growth, urbanization, transportation and manufacturing on energy and overall sustainable development.

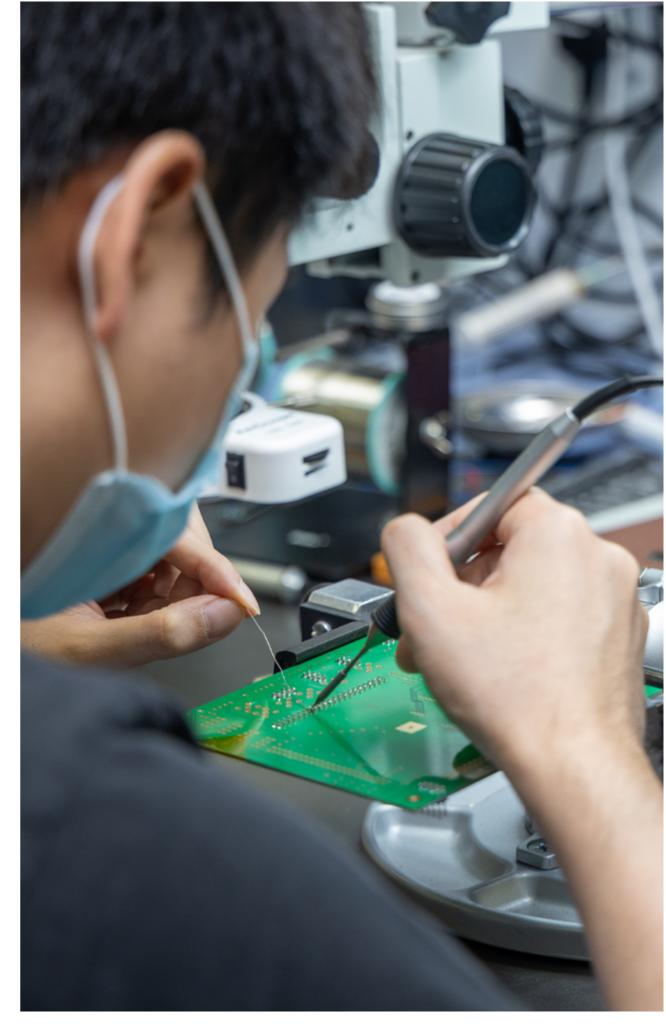
The programs also look at the implications and drivers of sustainable policymaking on society, the economy, and the environment.

For more information, CLICK HERE

PhD in Sustainable Environment

CSE's Sustainable Environment PhD program provides students with extensive knowledge in topics related to sustainable environment issues. These include the effect of human development on the environment; the causes, impact and control of pollution; and the demands of a growing global and regional population and economic development on natural resources and the environment.

For more information, CLICK HERE



Study Plans

Bachelor of Science in Computer Engineering

Minimum hours required to complete program

Core Courses		96 CH
CPEG 110	Principles of Computing	3
CPEG 111	Introduction to Computer Engineering	3
CPEG 127	Concepts of Mathematics	3
CPEG 151	Fundamentals of Programming and Computer Science	4
CPEG 152	Principles of Imperative Computing	3
CPEG 213	Introduction to Computer Systems	4
CPEG 214	Electrical Circuit Theory	4
CPEG 217	Probability Theory and Random Processes	3
CPEG 300	Embedded System Design	3
CPEG 330	Data Structures	3
CPEG 344	Digital Signal Processing	3
CPEG 410	Final Year Project I	4
CPEG 411	Final Year Project II	4
ECEN 248*	Introduction to Digital Systems Design	4
ECEN 314*	Signals and Systems	3
ECEN 325*	Electronics	4
ECEN 350*	Computer Arch & Design	4
ENGL 104*	Composition and Rhetoric	3
ENGL 210*	Scientific & Technical Writing	3
ENGR 216*	Experimental Physics and Engineering Lab II - Mechanics	2
ENGR 217*	Experimental Physics and Engineering Lab III - Electricity and Magnetism	2
ENGR 482*	Ethics & Engineering	3
MATH 151*	Engineering Mathematics I	4
MATH 152*	Engineering Mathematics II	4
MATH 251*	Engineering Mathematics III	3
MATH 308*	Differential Equations	3

MATH 311*	Topics in Applied Mathematics	3
PHYS 206*	Newtonian Mechanics for Engineering and Science	3
PHYS 207*	Electricity and Magnetism for Engineering and Science	3
UCC Electives	6 Courses	18 CH
Creative Arts		
CRAF 491*	Topics: Jewelry	3
ENGL 212*	Introduction to Drama	4
ENGL 219*	Literature & the Other Arts	3
ENGL 388*	Professional, Scientific & Technical Writing	3
GDES 491*	Rapid Prototyping	3
LANG 216*	Literature of Arabic Speaking	3
MUSC 201*	Music and the Human Experience	3
Humanities, Social	and Political Science	
ANTH 201*	Intro to Anthropology	3
ARTF 115*	Art History Survey	3
COMM 335*	Intercultural Communication	3
COMM 365*	International Communication	3
HIST 105*	History of the U.S.	3
HIST 106*	History of the U.S.	3
HIST 115	History & Theory of Architecture - Islamic/Arab Civilizations	3
HIST 230*	American Military History	3
HIST 367*	Disastrous Encounters	3
HUSI 491*	College Topics	3
INST 222*	Foundations of Education in a Multicultural Society	3
INTE 242*	Introduction to Science and Technology Studies	4
POLS 206*	American National Government	3
POLS 207*	State and Local Government	3
POLS 242	Islamism & Politics in ME	4

Bachelor of Science in Computer Engineering

Minimum hours required	d to complete program	129 CH
PSYC 211*	Cognitive Psychology	3
PSYC 241*	Social Psychology	3
Business		
BUS 110*	Business Computing	3
BUS 122*	Intro to Accounting	3
BUS 381*	Marketing I	3
BUS 482*	Pricing Strategy	3
ECON 242	Principles of Economics	4
FIN 101	Ethical Finance	3
Engineering Electives	5 Courses	15 CH
CPEG 418	Introduction to Scientific Visualization	3
CPEG 460	Computer Networks	3
CPEG 462	Cybersecurity Fundamentals	3
CS 440	Distributed Systems	4
CS 487*	Introduction to Comp Security	4
ECEN 420*	Linear Control Systems	3
ECEN 449*	Microprocessor Systems Design	3
ECEN 455*	Digital Communications	4
ECEN 489*	Special Topics	3
MATH 414*	Fourier Series and Wavelets	3
CPEG 453	Information and Communication Technology Accessibility	3
RO 311*	Introduction to Robotics	3
CS 282*	AI for Medicine	3
ECEN 446*	Information Theory, Inference and Learning Algorithms	3
ECEN 438*	Power electronics	3

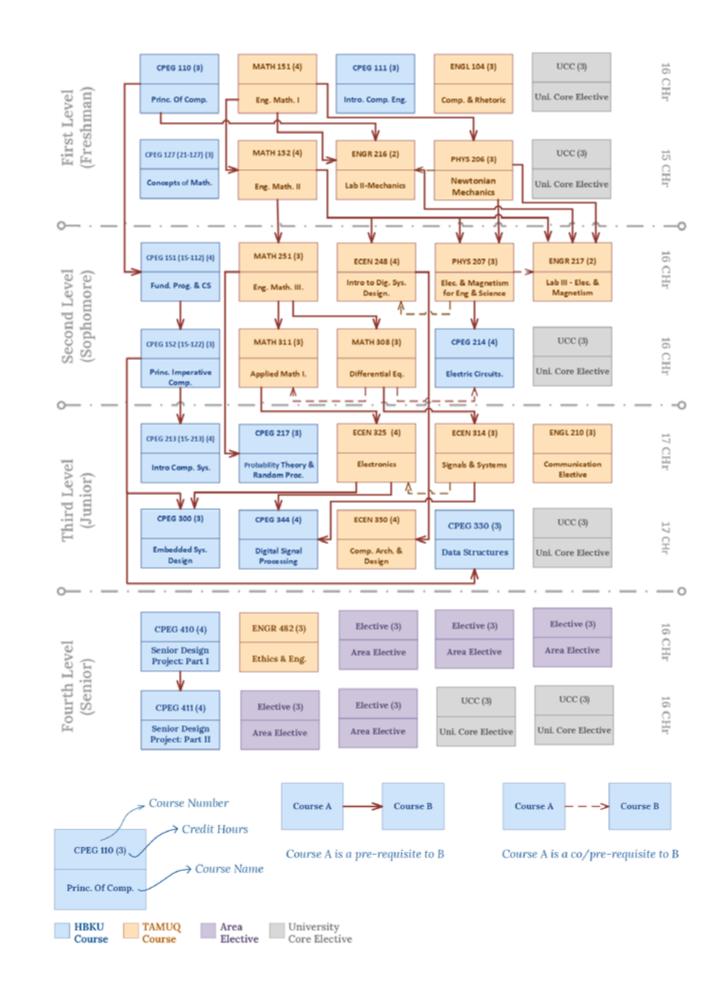
*Courses Offered b	by a Partner University
Texas A&M Unive	rsity Qatar
ECEN 248	Introduction to Digital System
ECEN 314	Signals and Systems
ECEN 325	Electronics
ECEN 350	Computer Arch & Design
ENGL 104	Composition and Rhetoric
ENGL 210	Scientific & Technical Writing
ENGR 216	Experimental Physics and I
ENGR 217	Experimental Physics and I
ENGR 482	Ethics & Engineering
MATH 151	Engineering Mathematics I
MATH 152	Engineering Mathematics I
MATH 251	Engineering Mathematics I
MATH 308	Differential Equations
MATH 311	Topics in Applied Mathema
PHYS 206	Newtonian Mechanics for I
PHYS 207	Electricity and Magnetism
ENGL 219	Literature & the Other Arts
MUSC 201	Music and the Human Expe
ANTH 201	Intro to Anthropology
COMM 335	Intercultural Communication
COMM 365	International Communicati
HIST 105	History of the U.S.
HIST 106	History of the U.S.
HIST 230	American Military History

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Bachelor of Science in Computer Engineering

Minimum hours required to complete program

INST 222	Foundations of Education in a Multicultural Society
POLS 206	American National Government
POLS 207	State and Local Government
ECEN 420	Linear Control Systems
ECEN 449	Microprocessor Systems Design
ECEN 455	Digital Communications
ECEN 489	Special Topics
MATH 414	Fourier Series and Wavelets
Virginia Common	wealth University Qatar
CRAF 491	Topics: Jewelry
GDES 491	Rapid Prototyping
ARTF 115	Art History Survey
HUSI 491	College Topics
Northwestern Uni	iversity Qatar
ENGL 212	Introduction to Drama
INTE 242	Introduction to Science and Technology Studies
Carnegie Mellon	University Qatar
LANG 216	Literature of Arabic Speaking
HIST 367	Disastrous Encounters
PSYC 211	Cognitive Psychology
PSYC 241	Social Psychology
BUS 110	Business Computing
BUS 122	Introduction to Accounting
BUS 381	Marketing I
BUS 482	Pricing Strategy
CS 487	Introduction to Comp Security



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Master of Data Analytics in Health Management

Minimum hours required to complete program

Core Courses		12 CH
ICT 660	Principles of Health Informatics	3
ICT 665	Artificial Intelligence & Machine Learning in Healthcare	3
ICT 666	Computational Bioinformatics	3
GPM 601	Research Methods and Ethics in Health and Genomics	3
Elective Courses		12 CH
Free elective: Studen	ts can take one course from any HBKU program	
CSE 602	Statistics for Science and Engineering	3
CSEG 710	Advanced Algorithms and Data Structures	3
DSEG 660	Applied Deep Learning	3
DSEG 733	Advanced Data Management Systems	3
DSEG 735	Learning from Data	3
DSEG 760	Machine Learning	3
ICT 620	Computer Graphics	3
ICT 632	Advanced Applications of the Web and Internet	3
ICT 668	Medical Image Processing	3
ICT 671	Information Systems Management	3
ICT 675	Healthcare Information Systems	3
ICT 676	Information Systems Analysis and Design	3
ICT 690	Special Topics	3
ICT 705	Applied Data Analytics	3
ICT 706	Independent Studies	3
ICT 716	Data Science Tools and Applications	3
ICT 736	Interactive Design for Health care	3
GPM 604	Advanced Genetics	3
GPM 720	Pharmacogenomics	3
CLS 726	Proteomics in Precision Medicine	3
EPID 700	Introduction to Epidemiology	3

Seminar		0 CH
Must pass one ti	me	
ICT 701	Graduate Research Seminars	0
Thesis or Projec	t	9 CH
ICT 695	Master's Thesis Hours	0-6
Or		
ICT 698	Industrial Project	6
	One elective from list above	3
Non-Course Req	juirements	0 CH
699	Thesis Defense	0

Master of Information Systems in Health Management

Minimum hours required to complete program

Core Courses		12 CH
ICT 670	Information Technology Project Management	3
ICT 671	Information Systems Management	3
ICT 675	Healthcare Information Systems	3
ICT 676	Information Systems Analysis and Design	3
Electives Courses		15 CH
Free elective: Students of	can take one course from any HBKU program	
CSE 602	Statistics for Science and Engineering	3
CSEG 710	Advanced Algorithms and Data Structures	3
CYSE 630	Computer and Network Security	3
CYSE 640	Security Risk Analysis	3
CYSE 720	Data Privacy	3
DSEG 733	Advanced Data Management Systems	3
DSEG 735	Learning from Data	3
ICT 632	Advanced Applications of the Web and Internet	3
ICT 660	Principles of Health Informatics	3
ICT 665	Artificial Intelligence & Machine Learning in Healthcare	3
ICT 666	Computational Bioinformatics	3
ICT 668	Medical Image Processing	3
ICT 690	Special Topics	3
ICT 705	Applied Data Analytics	3
ICT 706	Independent Studies	3
ICT 716	Data Science Tools and Applications	3
ICT 736	Interactive Design for Health care	3

Seminar		0 CH
Must pass one ti	me	
ICT 701	Graduate Research Seminars	0
Project		6 CH
ICT 698	Industrial Project	6

Master of Science in Cybersecurity

Minimum hours required to complete program

Core Courses		12 CH
CYSE 610	Applied Cryptography	3
CYSE 630	Computer and Network Security	3
CYSE 640	Security Risk Analysis	3
ICT 601	Research Methods and Ethics	3
Elective Courses		12 CH
Free elective: Stude	ents can take one course from any HBKU program	
CSE 602	Statistics for Science and Engineering	3
CSEG 605	Convex Optimization for Large-Scale and Distributed Systems	3
CSEG 710	Advanced Algorithms and Data Structures	3
CSEG 780	Principles of Computer System Design	3
CYSE 720	Data Privacy	3
CYSE 727	Wireless Networks & Security	3
CYSE 728	Distributed Systems Security	3
CYSE 729	Multimedia Security	3
CYSE 744	Network Forensics	3
CYSE 745	Computational Forensics	3
DSEG 733	Advanced Data Management Systems	3
DSEG 735	Learning from Data	3
ICT 632	Advanced Applications of the Web and Internet	3
ICT 690	Special Topics	3
ICT 705	Applied Data Analytics	3
ICT 706	Independent Studies	3
ICT 716	Data Science Tools and Applications	3
ICT 720	Cloud Computing	3
ICT 725	Quantum Computing	3

Seminar		0 CH
Must pass one tim	ne	
ICT 701	Graduate Research Seminars	0
Thesis or Project		9 CH
ICT 695	Master's Thesis Hours	0-6
Or		
ICT 698	Industrial Project	6
	One elective from list above	3
Non-Course Requ	lirements	0 CH
699	Thesis Defense	0

Master of Science in Data Science and Engineering

Minimum hours required to complete program

Core Courses 12 CH CSE 602 Statistics for Science and Engineering 3 **DSEG 733** Advanced Data Management Systems 3 ICT 601 **Research Methods and Ethics** 3 ICT 705 3 Applied Data Analytics **Elective Courses** 12 CH Free elective: Students can take one course from any HBKU program **CSEG 605** Convex Optimization for Large-Scale and Distributed Systems 3 **CSEG 710** Advanced Algorithms and Data Structures 3 **CSEG 780** Principles of Computer System Design 3 3 **CYSE 727** Wireless Networks & Security DSEG 660 Applied Deep Learning 3 DSEG 682 Special Topics in Data Science and Engineering 3 **DSEG 735** 3 Learning from Data **DSEG 760** Machine Learning 3 ICT 632 Advanced Applications of the Web and Internet 3 ICT 660 Principles of Health Informatics 3 ICT 665 Artificial Intelligence & Machine Learning in Healthcare 3 ICT 666 **Computational Bioinformatics** 3 3 ICT 668 Medical Image Processing ICT 690 **Special Topics** 3 ICT 706 Independent Studies 3 3 ICT 716 Data Science Tools and Applications ICT 736 Interactive Design for Health care 3 ICT 720 **Cloud Computing** 3 ICT 620 3 **Computer Graphics** ICT 615 3 AI for Social Media and Multimedia Applications

Seminar		0 CH
Must pass one time		
ICT 701	Graduate Research Seminars	0
Thesis or Project		9 CH
ICT 695	Master's Thesis Hours	0-6
Or		
ICT 698	Industrial Project	6
	One elective from list above	3
Non-Course Requirem	ents	0 CH
699	Thesis Defense	0

Master of Science in Logistics and Supply Chain Management

Minimum hours required to complete program

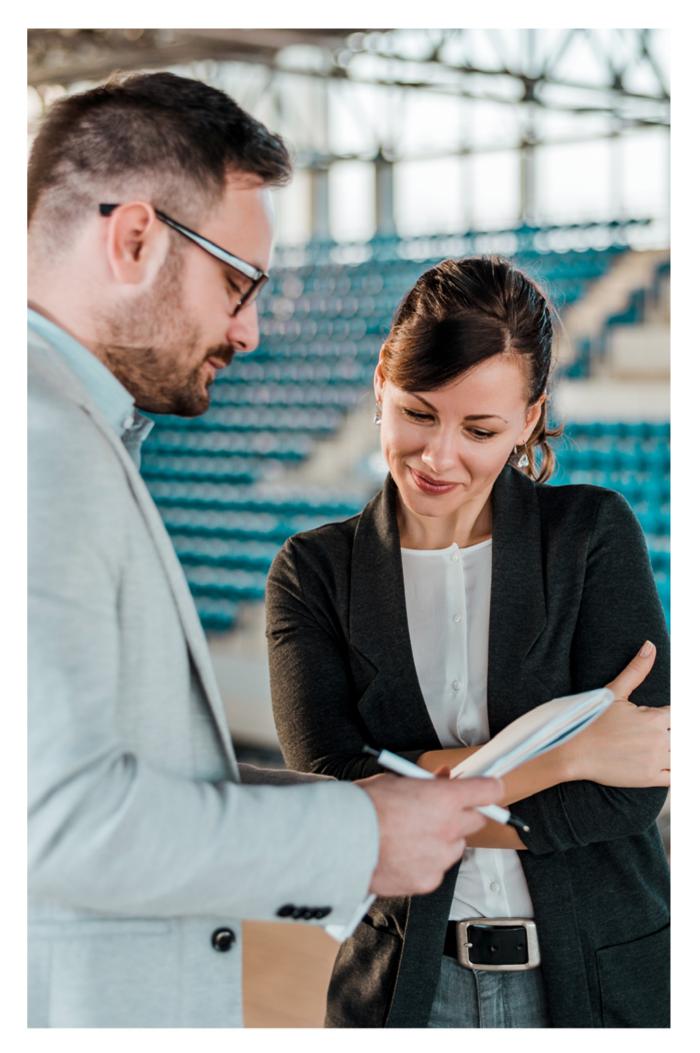
Core Courses		9 CH
LSCM 601	Research Ethics and Methods	3
LSCM 611	Supply Chain Management	3
LSCM 607	Optimization Models and Methods	3
Elective Courses		15 CH
Free elective: Stude	nts can take one course from any HBKU program	
LSCM 605	The Pricing of Financial Contracts	3
LSCM 617	Production and Operations Management	3
LSCM 621	Project Management in Logistics	3
LSCM 625	Behavioral Logistics Management	3
LSCM 627	Simulation Optimization Methods	3
LSCM 631	Port Management and Maritime Logistics	3
LSCM 635	Business Performance Management	3
LSCM 641	Facility and Transportation Management	3
LSCM 651	Financial Techniques for Investment Appraisal	3
LSCM 671	Principles of Reinforcement Learning for Engineering Management	3
LSCM 706	Independent studies	3
LSCM 711	Supply Chain Modeling and Optimization	3
LSCM 721	Advanced Topics in Supply Chain Management	3
LSCM 731	Industry 4.0 in Manufacturing and Supply Chain	3
SPTE 777	Sports and Events Logistics	3

Seminar		0 CH
Must pass once		
LSCM 701	Research Seminar	0
Thesis or Project		9 CH
LSCM 695	Master's Thesis Hours	0-6
Or		
LSCM 690	Applied Project	6
	One elective from list above	3
Non-Course Requ	lirements	0 CH
699	Thesis Defense	0

Master of Science in Sport and Entertainment Management

Minimum hours required to complete program

Core Courses		21 CH
SPTE 640	Venue Management: Principles and Practices	3
SPTE 701	Management in the Sport and Entertainment Industry	3
HRSM 700	Quantitative Methods in Hospitality, Retail and Sport Management	3
HRSM 788	Business Analytics in Hospitality, Retail and Sport Management	3
Law 760	Sports Law	3
SPTE 760	Principles of Sport and Entertainment Marketing	3
SPTE 790	Sport and Entertainment Finance	3
Elective Courses		9 CH
Optional: students may	take electives from outside of Sport and Entertainment Management	
SPTE 590	Special Topics in Sport and Entertainment	3
SPTE 736	Sport Event Entrepreneurship	3
SPTE 670	Special Topics in Global Sport	3
SPTE 777	Sports and Events Logistics	3
SPTE 781	Seminar on the Olympic Games	3
SPTE 798	Directed Study in Sports and Entertainment Management	3
HRSM 650	Field Project in Hospitality, Retail and Sport Management	3
Thesis or Two Electives	s	6 CH
SPTE 799	Thesis Preparation	6
Or		
	Elective 1	3
	Elective 2	3
Non-Course Requirements		
699	Thesis Defense	0



Master of Science in Sustainable Energy

Minimum hours required to complete program

Core Courses		9 CH
SENS 611	Sustainability Fundamentals and Tools	3
SENS 601	Research Methods and Ethics	3
Take one of the fol	llowing	
CSE 602	Statistics for Science and Engineering	3
CSE 603	Advanced Mathematics	3
CSE 605	Computational Data Analytics	3
CSE 606	Numerical Methods for Scientists and Engineers	3
CSE 607	Advanced Systems Optimization	3
Elective Courses		15 CH
Free elective: Stud	ents can take one course from any HBKU program	
CSE 770	Nano-Bio-Technology	3
CSE 785	Innovation Entrepreneurship Leadership I	3
CSE 786	Innovation Entrepreneurship Leadership II	3
SENR 615	Oil and Gas Geopolitics	3
SENR 727	Science and Engineering of Thin Films and Interfaces	3
SENR 740	Energy Resources, Generation, Science and Technology	3
SENR 741	Oil and Gas Technology and Economics	3
SENR 742	The Life Cycle of Oil and Gas Fields	3
SENR 743	Photovoltaic Solar Technology	3
SENR 744	Renewable Energy Systems	3
SENR 750	Energy Storage Devices and Systems	3
SENR 754	Smart Power Grids	3
SENR 755	Micro-grids: Operation, Management and Planning	3
SENS 681	Integrated Sustainable Design for the Built Environment	3
SENS 706	Independent Studies	3
SENS 712	Environmental Quality and Health	3
SENS 714	Sustainability: Energy, Environment and Economics	3
SENS 715	Life Cycle Assessment - LCA	3
SENS 716	Efficiency: Resource Use and Behavioral Analysis	3

SENS 718	Sustainable Cities and Urban Mobility	3
SENS 719	Energy Water Food (EWF) Nexus	3
SENS 721	Advanced Materials Synthesis and Characterization	3
SENS 722	Sustainable Chemical Industry - A Green Approach	3
SENS 728	Electrochemistry and Environmental Corrosion	3
SENS 729	Electrochemistry and Electrochemical Processing	3
SENS 780	Green Building: Design, Construction and Operation	3
SENS 785	Innovation Entrepreneurship Leadership I	3
SENS 786	Innovation Entrepreneurship Leadership II	3
SENS 791	Geospatial Information Systems	3
SENV 713	Environmental Impact and Management Systems	3
SENV 745	Energy Nano-Technology	3
SENV 760	Air Quality and Climate Change	3
SENV 761	Atmospheric Chemistry and Climate Change	3
SENV 770	Desalination Technologies	3
SENV 772	Water and Wastewater Treatment	3
SENV 773	Water Resources Management	3
SENV 774	Water Treatment and Reuse	3
SENV 776	Solid and Hazardous Waste Management	3
SENV 778	Principles of Hydrogeology	3
Seminar		0 CH
Must pass twice		
SENS 701	Research Seminars	0
Thesis or Project		9 CH
SENS 695	Master's Thesis Hours	0-6
Or		
SENS 698	Industrial/Applied Project	
	Elective 1	3
Non-Course Require	ements	0 CH
699	Thesis Defense	0

Master of Science in Sustainable Environment

Minimum hours required to complete program

Core Courses		9 CH
SENS 601	Research Methods and Ethics	3
SENS 611	Sustainability Fundamentals and Tools	3
Take one of the fo	ollowing	
CSE 602	Statistics for Science and Engineering	3
CSE 603	Advanced Mathematics	3
CSE 605	Computational Data Analytics	3
CSE 606	Numerical Methods for Scientists and Engineers	3
CSE 607	Advanced Systems Optimization	3
Elective Courses		15 CH
Free elective: Stud	dents can take one course from any HBKU program	
CSE 770	Nano-Bio-Technology	3
CSE 785	Innovation Entrepreneurship Leadership I	3
CSE 786	Innovation Entrepreneurship Leadership II	3
SENR 615	Oil and Gas Geopolitics	3
SENR 727	Science and Engineering of Thin Films and Interfaces	3
SENR 740	Energy Resources, Generation, Science and Technology	3
SENR 741	Oil and Gas Technology and Economics	3
SENR 742	The life cycle of oil and gas fields	3
SENR 743	Photovoltaic Solar Technology	3
SENR 744	Renewable Energy Systems	3
SENR 750	Energy Storage Devices and Systems	3
SENR 754	Smart Power Grids	3
SENR 755	Micro-grids: Operation, Management and Planning	3
SENS 681	Integrated Sustainable Design for the Built Environment	3
SENS 706	Independent Studies	3
SENS 712	Environmental Quality and Health	3
SENS 714	Sustainability: Energy, Environment and Economics	3
SENS 715	Life Cycle Assessment - LCA	3
SENS 716	Efficiency: Resource Use and Behavioral Analysis	3

SENS 718	Sustainable Cities and Urban Mobility	3
SENS 719	Energy Water Food (EWF) Nexus	3
SENS 721	Advanced Materials Synthesis and Characterization	3
SENS 722	Sustainable Chemical Industry - A Green Approach	3
SENS 728	Electrochemistry and Environmental Corrosion	3
SENS 729	Electrochemistry and Electrochemical Processing	3
SENS 780	Green Building: Design, Construction and Operation	3
SENS 785	Innovation Entrepreneurship Leadership I	3
SENS 786	Innovation Entrepreneurship Leadership II	3
SENS 791	Geospatial Information Systems	3
SENV 713	Environmental Impact and Management Systems	3
SENV 745	Energy Nano-Technology	3
SENV 760	Air Quality and Climate Change	3
SENV 761	Atmospheric Chemistry and Climate Change	3
SENV 770	Desalination Technologies	3
SENV 772	Water and Wastewater Treatment	3
SENV 773	Water Resources Management	3
SENV 774	Water Treatment and Reuse	3
SENV 776	Solid and Hazardous Waste Management	3
SENV 778	Principles of Hydrogeology	3
Seminar		0 CH
Must pass twice		
SENS 701	Research Seminars	0
Thesis or Project		9 CH
SENS 695	Master's Thesis Hours	0-6
Or		
SENS 698	Industrial/Applied Project	
	Elective 1	3
Non-Course Requirer	ments	0 CH
699	Thesis Defense	0

PhD in Computer Science and Engineering

Minimum hours required to complete program

Core Courses		9 CH
ICT 601	Research Methods and Ethics	3
ICT 705	Applied Data Analytics	3
CSEG 710	Advanced Algorithms and Data Structures	3
Or		
CSEG 780	Principles of Computer System Design	3
Elective Courses		9 CH
Free elective: Stud	ents can take one course from any HBKU program	
CSE 602	Statistics for Science and Engineering	3
CSEG 605	Convex Optimization for Large-Scale and Distributed Systems	3
CYSE 610	Applied Cryptography	3
CYSE 630	Computer and Network Security	3
CYSE 640	Security Risk Analysis	3
CYSE 720	Data Privacy	3
CYSE 727	Wireless Networks & Security	3
CYSE 728	Distributed Systems Security	3
CYSE 729	Multimedia Security	3
CYSE 744	Network Forensics	3
CYSE 745	Computational Forensics	3
DSEG 660	Applied Deep Learning	3
DSEG 682	Special topics in Data Science and Engineering	3
DSEG 733	Advanced Data Management Systems	3
DSEG 735	Learning from Data	3
DSEG 760	Machine Learning	3
ICT 632	Advanced Applications of the Web and Internet	3
ICT 660	Principles of Health Informatics	3
ICT 665	Artificial Intelligence & Machine Learning in Healthcare	3

ICT 666	Computational Bioinformatics	3
ICT 668	Medical Image Processing	3
ICT 670	Information Technology Project Management	3
ICT 671	Information Systems Management	3
ICT 675	Healthcare Information Systems	3
ICT 676	Information Systems Analysis and Design	3
ICT 690	Special Topics	3
ICT 706	Independent Studies	3
ICT 716	Data Science Tools and Applications	3
ICT 736	Interactive Design for Healthcare	3
ICT 720	Cloud Computing	3
ICT 725	Quantum Computing	3
ICT 620	Computer Graphics	3
ICT 615	AI for Social Media and Multimedia Applications	3
Seminar		0 CH
Must pass twice		
ICT 701	Graduate Research Seminars	0
Dissertation		36 CH
ICT 890	Dissertation Hours	0-9
Non-Course Require	ments	0 CH
899	Dissertation Defense	0
790	Doctoral Qualifying Exam	0
799	Candidacy Exam	0

PhD in Logistics and Supply Chain Management

Minimum hours required to complete program

Core Courses		9 CH
LSCM 601	Research Ethics and Methods	3
LSCM 611	Supply Chain Management	3
LSCM 607	Optimization Models and Methods	3
Elective Courses		9 CH
Free elective: Students	can take one course from any HBKU Program	
LSCM 605	The Pricing of Financial Contracts	3
LSCM 617	Production and Operations Management	3
LSCM 621	Project Management in Logistics	3
LSCM 625	Behavioral Logistics Management	3
LSCM 627	Simulation Optimization Methods	3
LSCM 631	Port Management and Maritime Logistics	3
LSCM 635	Business Performance Management	3
LSCM 641	Facility and Transportation Management	3
LSCM 651	Financial Techniques for Investment Appraisal	3
LSCM 671	Principles of Reinforcement Learning for Engineering Management	3
LSCM 706	Independent studies	3
LSCM 711	Supply Chain Modeling and Optimization	3
LSCM 721	Advanced Topics in Supply Chain Management	3
LSCM 731	Industry 4.0 in Manufacturing and Supply Chain	3
SPTE 777	Sports and Events Logistics	3

Seminar		0 CH
Must pass Twice		
LSCM 701	Research Seminar	0
Dissertation		36 CH
LSCM 890	Dissertation Hours	0-9
Non-Course Requirements		0 CH
899	Dissertation Defense	0
790	Doctoral Qualifying Exam	0
799	Candidacy Exam	0

PhD in Sustainable Energy

Minimum hours required to complete program

Core Courses		9 CH
SENS 601	Research Methods and Ethics	3
SENS 611	Sustainability Fundamentals and Tools	3
Take one of the fo	ollowing	
CSE 602	Statistics for Science and Engineering	3
CSE 603	Advanced Mathematics	3
CSE 605	Computational Data Analytics	3
CSE 606	Numerical Methods for Scientists and Engineers	3
CSE 607	Advanced Systems Optimization	3
Elective Courses		9 CH
Free elective: Stud	dents can take one course from any HBKU program	
CSE 770	Nano-Bio-Technology	3
CSE 785	Innovation Entrepreneurship Leadership I	3
CSE 786	Innovation Entrepreneurship Leadership II	3
SENR 615	Oil and Gas Geopolitics	3
SENR 727	Science and Engineering of Thin Films and Interfaces	3
SENR 740	Energy Resources, Generation, Science and Technology	3
SENR 741	Oil and Gas Technology and Economics	3
SENR 742	The life cycle of oil and gas fields	3
SENR 743	Photovoltaic Solar Technology	3
SENR 744	Renewable Energy Systems	3
SENR 750	Energy Storage Devices and Systems	3
SENR 754	Smart Power Grids	3
SENR 755	Micro-grids: Operation, Management and Planning	3
SENS 681	Integrated Sustainable Design for the Built Environment	3
SENS 706	Independent Studies	3
SENS 712	Environmental Quality and Health	3
SENS 714	Sustainability: Energy, Environment and Economics	3
SENS 715	Life Cycle Assessment - LCA	3

SENS 716	Efficiency: Resource Use and Behavioral Analysis	3
SENS 718	Sustainable Cities and Urban Mobility	3
SENS 719	Energy Water Food (EWF) Nexus	3
SENS 721	Advanced Materials Synthesis and Characterization	3
SENS 722	Sustainable Chemical Industry - A Green Approach	3
SENS 728	Electrochemistry and Environmental Corrosion	3
SENS 729	Electrochemistry and Electrochemical Processing	3
SENS 780	Green Building: Design, Construction and Operation	3
SENS 785	Innovation Entrepreneurship Leadership I	3
SENS 786	Innovation Entrepreneurship Leadership II	3
SENS 791	Geospatial Information Systems	3
SENV 713	Environmental Impact and Management Systems	3
SENV 745	Energy Nano-Technology	3
SENV 760	Air Quality and Climate Change	3
SENV 761	Atmospheric Chemistry and Climate Change	3
SENV 770	Desalination Technologies	3
SENV 772	Water and Wastewater Treatment	3
SENV 773	Water Resources Management	3
SENV 774	Water Treatment and Reuse	3
SENV 778	Principles of Hydrogeology	3
SENV 776	Solid and Hazardous Waste Management	3
Seminar		0 CH
Must pass thrice		
SENS 701	Research Seminars	0
Dissertation		36 CH
SENS 890	Dissertation Hours	0-9
Non-Course Requir	ements	0 CH
899	Dissertation Defense	0
790	Doctoral Qualifying Exam	0
799	Candidacy Exam	0

PhD in Sustainable Environment

Minimum hours required to complete program

Core Courses		9 CH
SENS 601	Research Methods and Ethics	3
SENS 611	Sustainability Fundamentals and Tools	3
Take one of the fo	llowing	
CSE 602	Statistics for Science and Engineering	3
CSE 603	Advanced Mathematics	3
CSE 605	Computational Data Analytics	3
CSE 606	Numerical Methods for Scientists and Engineers	3
CSE 607	Advanced Systems Optimization	3
Elective Courses		9 CH
Free elective: Stud	lents can take one course from any HBKU program	
CSE 770	Nano-Bio-Technology	3
CSE 785	Innovation Entrepreneurship Leadership I	3
CSE 786	Innovation Entrepreneurship Leadership II	3
SENR 615	Oil and Gas Geopolitics	3
SENR 727	Science and Engineering of Thin Films and Interfaces	3
SENR 740	Energy Resources, Generation, Science and Technology	3
SENR 741	Oil and Gas Technology and Economics	3
SENR 742	The life cycle of oil and gas fields	3
SENR 743	Photovoltaic Solar Technology	3
SENR 744	Renewable Energy Systems	3
SENR 750	Energy Storage Devices and Systems	3
SENR 754	Smart Power Grids	3
SENR 755	Micro-grids: Operation, Management and Planning	3
SENS 681	Integrated Sustainable Design for the Built Environment	3
SENS 706	Independent Studies	3
SENS 712	Environmental Quality and Health	3
SENS 714	Sustainability: Energy, Environment and Economics	3
SENS 715	Life Cycle Assessment - LCA	3

SENS 716	Efficiency: Resource Use and Behavioral Analysis	3
SENS 718	Sustainable Cities and Urban Mobility	3
SENS 719	Energy Water Food (EWF) Nexus	3
SENS 721	Advanced Materials Synthesis and Characterization	3
SENS 722	Sustainable Chemical Industry - A Green Approach	3
SENS 728	Electrochemistry and Environmental Corrosion	3
SENS 729	Electrochemistry and Electrochemical Processing	3
SENS 780	Green Building: Design, Construction and Operation	3
SENS 785	Innovation Entrepreneurship Leadership I	3
SENS 786	Innovation Entrepreneurship Leadership II	3
SENS 791	Geospatial Information Systems	3
SENV 713	Environmental Impact and Management Systems	3
SENV 745	Energy Nano-Technology	3
SENV 760	Air Quality and Climate Change	3
SENV 761	Atmospheric Chemistry and Climate Change	3
SENV 770	Desalination Technologies	3
SENV 772	Water and Wastewater Treatment	3
SENV 773	Water Resources Management	3
SENV 774	Water Treatment and Reuse	3
SENV 776	Solid and Hazardous Waste Management	3
SENV 778	Principles of Hydrogeology	3
Seminar		0 CH
Must pass thrice		
SENS 701	Research Seminars	0
Dissertation		36 CH
SENS 890	Dissertation Hours	0-9
Non-Course Require	ements	0 CH
899	Dissertation Defense	0
790	Doctoral Qualifying Exam	0
799	Candidacy Exam	0

Course Descriptions

CPEG 110	Principles of Computing	3 Credits	CPEG 152	Principles of Imperative Computing
	 Through this course, students will explore major issues related to the "big ideas" of computational thinking and solve the problem by using Python, which emphasizes principles of computing, software development, style, and testing. Topics include representation of ideas with bits, basic Boolean logic, and devices to implement logic functions as the first part. The second part includes procedures and functions, iteration, recursion, arrays and vectors, strings, algorithms, exceptions, and object-oriented programming. Weekly labs provide guided practice on the computer. 	5 oreans		This course teaches imperative computing and methods for ensuring the correc It is intended for students who are fa programming concepts such as varia arrays, and functions. Students will le to go from high-level descriptions of imperative implementations, with spe basic data structures. Much of the co in a subset of C, with a transition to f
CPEG 111	Introduction to Computer Engineering For CE students, this course is designed to provide foundation	3 Credits	Prerequisites:	CPEG 151 Fundamentals of Program Computer Science or equivalent
CPEG 127	 For CE students, this course is designed to provide roundation knowledge on basic digital system, computer architecture, programming, microelectronics, and electrical engineering. Students will learn concepts from both the hardware and the software perspective. Students can apply the knowledge and principles learnt to design and build a functional hardware-software co-designed system such as a robot. Concepts of Mathematics The course covers two important aspects, how to write rigorous 	3 Credits	CPEG 213	Introduction to Computer Systems The course aims to help students be teaching them the basic concepts un Students will learn what really happe run, so that they will have the intellec problems that may arise. Topics inclu language, memory hierarchy, excepti system level I/O, process management management, and network and conc
	mathematical proofs and how to use abstract concepts of mathematics in many areas of computer science. It will introduce the basic concepts for mathematical proofs and link them to different areas of mathematics and computer science. Other topics will be introduced, such as number		Prerequisites:	CPEG 152 Principles of Imperative Co
	theory, counting, algebra of sets, and graph theory.		CPEG 214	Electrical Circuit Theory
CPEG 151	Fundamentals of Programming and Computer Science This course is designed to provide students with the main concepts and fundamentals of programming and computer science. Python is used as the programming language of this course. During class, students are taught syntax and semantics of Python, algorithmic	4 Credits		This course focuses on the principles Network reduction, nodal analysis, m elements; sinusoidal steady state; A0 coupled circuits; the ideal transforme to computer applications in circuit ar
	design, and fundamentals of modern von Neumann architectures.		Prerequisites:	Prerequisites: PHYS 207 Electricity ar for Engineering and Science
Prerequisites:	CPEG 110 Principles of Computing		Corequisites:	MATH 308 Differential Equations

3 Credits

ng

rogramming in a C-like language rectness of imperative programs. e familiar with elementary ariables, expressions, loops, ill learn techniques needed of algorithms to correct specific applications to e course will be conducted to full C in the final part.

amming and

S

become better programmers by s underlying all computer systems. opens when a computer program is llectual tools to solve any potential nclude data representation, assembly eptions, interrupts, Unix signals, ement, virtual memory and memory oncurrent programming.

Computing or equivalent

oles of Resistive circuits: circuit laws, , mash analysis; energy storage ; AC energy systems; magnetically rmer; resonance; and introduction t analysis.

/ and Magnetism

4 Credits

(CPEG 217	Probability Theory and Random Processes	3 Credits	CPEG 410	Final Year Project I
		This course covers important concepts and problem solving skills related to probability theory. Topics include elementary probability			This course covers the first half Participants are expected to for
		theory, conditional probability and independence, random variables,			Each project requires the develo
		distribution functions, joint and conditional distributions, limit theorems,			both hardware and software. Fu
		random processes spectral analysis and information theory.			from industry, academia, and/o
					solicit feedback on the project.
	Prerequisites:	MATH 251 Engineering Mathematics III			complete an research ethics an
	· · · · / · · · · · ·	······ · _ · g. · · · · · g · · · · · · · · · · ·			plus homework) before filing a
(CPEG 300	Embedded System Design	3 Credits	CPEG 411	Final Year Project II
		In this class, the fundamentals of embedded system hardware		CFEG 411	•
		and program design will be explored. Issues such as embedded			This pair of courses (CPEG 410 experience based on knowledge
		processor selection, system architecture, instruction set, assembly			work. Students select their prefe
		programming, circuit debugging, and development will be discussed.			long project development, inclu
		The architecture and instruction set of the microcontroller will be discussed, and two 8051 MCU boards will be used by the student during			and familiarization with relevan
		the lab to implement some basic embedded systems. Advanced AVR,			propose solutions, write a techr
		STM microcontroller series will also be introduced in terms of their			a final defense in front of the cu
		architecture optimization and instruction set optimization.			also focuses on documenting a
					in a professional manner.
ŀ	Prerequisites:	CPEG 152 Principles of Imperative Computing and ECEN 325 Electronics		Proroquisitos	CDEC 410 Einal Voar Project I
				Prerequisites:	CPEG 410 Final Year Project I
(CPEG 330	Data Structures	3 Credits	CPEG 418	Introduction to Scientific Visua
		This course focuses on the design of data structures (e.g., linked lists,			The field of Scientific and Data
		stacks, queues, trees, and graphs), and an introduction to the analysis of algorithms that operate on those data structures. Students will			bringing together visualization
		learn how to implement learned data structures, their advantages/			to gain visual insight into their c
		disadvantages, practical uses, alternatives, and time & space concerns.			including applications coming f
					such as medicine, biology, mec
	Prerequisites:	CPEG 152 Principles of Imperative Computing			This course provides a broad ov
'	rerequisites.	or EO 152 Finicipies of imperative computing			and Data Visualization. Selected
(CPEG 344	Digital Signal Processing	4 Credits		discussed in depth and their inr in programming and reading as
		This course covers discrete-time signals and linear time-invariant			
		systems; digital processing of continuous-time signals; introduction		Prerequisites:	CPEG152 Principles of Imperativ
		to random signals, correlation and matched filtering; FIR and IIR digital			
		filters and their analysis in the z and in frequency domains; the DFT			
		(discrete Fourier transform) and its applications; FFT algorithms; FIR			
		and IIR digital filter design and implementation techniques; spectrum			
		analysis and estimation using windows; and practical applications			
		of DSP algorithms.			
ŀ	Prerequisites:	ECEN314 Signals and Systems and ECEN 325 Electronics			

4 Credits

half of the Senior Design Project. form teams of 2–3 students per project. velopment of a larger prototype involving . Furthermore, two potential stake holders d/or research lab shall be interviewed to ct. Each participant has to successfully and intellectual property module (lecture a mid-term report.

10 and 411) culminate in a major design dge and skills acquired in earlier course referred projects and perform a 1-year cluding literature review, due diligence ant standards. Students shall then chnical report, as well as conduct curriculum committee. The course g and presenting the project's outcome

ualization

ta Visualization is highly interdisciplinary, on experts and domain scientists seeking ir data. Visualization is highly diverse, g from virtually every scientific discipline echanical and electrical engineering. I overview of the fundamentals of Scientific eted fundamental algorithms will be inner workings will be studied assignments.

ative Computing

4 Credits

CPEG 453	Information and Communication Technology Accessibility	3 Credits
	The course focuses on enhancing capabilities in the domain of ICT	
	accessibility. When designing technology, developers need to consider	
	people with functional limitations – persons with disabilities and	
	the elderly. These vulnerable groups face obstacles and challenges	
	when it comes to the use of digital platforms. The course provides	
	a comprehensive review by covering diverse topics that advance the	
	skills needed to develop, review and evaluate the accessible digital	
	platforms according to the international best practices and ICT	
	accessibility standards.	
Prerequisites:	CPEG 152 Principles of Imperative Computing	
CPEG 460	Computer Networks	3 Credits
	This course focuses on the principles of computer networking protocols	
	and architectures with emphasis of the Internet. Students will learn	
	about the technologies and protocols used in local and wide area	
	networks. Special emphasis will be given to study the TCP/IP protocol	
	suite and its underlying protocols and concepts including: HTTP, SMTP,	
	POP, IMAP, DNS, P2P, UDP, TCP, error control, flow control, congestion	
	control, network routing (static and dynamic), packet delays, Local Area	
	Networks (Ethernet, Wi-Fi), confidentiality, integrity, authentication.	
	Students will experiment with protocol analyzers (packet sniffers) to	
	understand and analyze the operations of the different TCP/IP protocols.	
	Also, they will experiment with network emulation and virtualization using Mininet.	
Proroquioitoo:	CDEC 152 Dringiplas of Imporative Computing	
Prerequisites:	CPEG 152 Principles of Imperative Computing	
CPEG 462	Cybersecurity Fundamentals	3 Credits
	This course exposes students to the fundamental concepts of	
	cybersecurity. Issues considered include topics such as cryptographic	
	tools, user authentication, access control, software vulnerabilities,	
	intrusion detection, firewalls, and operating systems security. Students	
	will gain insight into the importance of cybersecurity through a series	
	of practical and hands-on exercises. They will be exposed to real life	
	cybersecurity operations, involving both attack and defense strategies.	

Prerequisites: CPEG 152 Principles of Imperative Computing

CS 440

FIN 101

HIST 115

Distributed System

The goals of this course are twofold: First, for students to gain an understanding of the principles and techniques behind the design of distributed systems, such as locking, concurrency, scheduling, and communication across the network. Second, for students to gain practical experience designing, implementing, and debugging real distributed systems. The major themes this course will teach include scarcity, scheduling, concurrency and concurrent programming, naming, abstraction and modularity, imperfect communication and other types of failure, protection from accidental and malicious harm, optimism, and the use of instrumentation and monitoring and debugging tools in problem solving. As the creation and management of software systems is a fundamental goal of any undergraduate systems course, students will design, implement, and debug large programming projects. As a consequence, competency in both the C and Java programming languages is required.

Ethical Finance

The course aims is to discuss and analyze the ethical approaches related to finance and economics. These include Corporate Responsibility and Responsible Investment, Islamic finance and economy, financial inclusion, Investor ethics and impact investing, environmental, social and governance (ESG) factors as well as the ethics of fintech.

History & Theory of Architecture - Islamic/Arab Civilizations

This course covers the methods and theories of Islamic civilizations that stretched from Spain to India. This course focusses on the architecture and decoration of the societies across this vast area, from the early centuries of Islam in the seventh century to present. It covers major architectural masterpieces and how they differed and changed with regards to their geographic locations, traditions, and how they developed. The course covers major monuments of the Umayyad, Abbasid, Tulunid, Fatimid, Samanid, Seljuk, Ghaznavids, Ayyubid, Mamluk, Ilkanid, Timurid, Ottoman, Safavid, Mughal and Modern periods. 4 Credits

3 Credits

CSE 602	Statistics for Science and Engineering This course covers probability and statistical methods for data analysis and experimental design. The course emphasizes on fundamental principles of statistics and their applications in science and engineering. Topics include: probability distributions and probability models; hypothesis testing based on single and multiple samples; single and multi-factor ANOVA; linear, logistic, and nonlinear regression; design, analysis, validation of experiments; nonparametric techniques; advanced statistical methods in scientific research.	3 Credits	CSE 785	Innovation Entrepreneurship and Leadership I This course first provides introductory discussio design innovation, entrepreneurship and leadersh experiential learning for design and development systems and business models. Topics include de system thinking, design process; understanding stakeholder needs/input for a sustainable solutio and marketing specifications; and prototyping m development time.
CSE 603	Advanced Mathematics This course introduces advanced math topics such as differential equations and their applications in energy and other engineering domains.	3 Credits	CSE 786	Innovation Entrepreneurship and Leadership II This course first provides introductory discussio design innovation, entrepreneurship and leaders experiential learning for design and development systems and business models. Topics include de
CSE 605	Computational Data Analytics It gains common computational tools for rapid analysis of several energy, environment and sustainability data sets.	3 Credits		system thinking, design process; understanding stakeholder needs/input for a sustainable solutio and marketing specifications; and prototyping m development time.
CSE 606	Numerical Methods for Scientists and Engineers Numerical Methods for Scientists and Engineers.	3 Credits	CSEG 605	Convex Optimization for Large-Scale and Distrik This course concentrates on solving convex opti
CSE 607	Advanced Systems Optimization This course focuses on introducing selected optimization tools for energy, environment and sustainability applications.	3 Credits		that arise in large-scale and distributed systems big data. It covers convex sets and functions, ba least-squares, linear and quadratic programs, ser unconstrained and constrained optimization, dua methods, sub-gradient and proximal gradient me
CSE 770	Nano-Bio-Technology	3 Credits		alternating direction method of multipliers (ADM
	Introduction to nanoscale bio-systems and the application of nano- bio-technology. Topics covered include nanomaterials synthesis and characterization, surface and interfaces properties, biohazard risk assessment, toxicity, drug deliver, diagnostics, lab-on-chip systems, hyperthermia, antimicrobials.		CSEG 710	Advanced Algorithms and Data Structures The course covers general computational proble principles used to design those algorithms. Effici be discussed to support these algorithmic conce time analysis, divide-and-conquer algorithms, dy

ctory discussions on theories of hip and leadership. Then, it focuses on nd development of products, processes, opics include design thinking, understanding and developing user/ stainable solution; generating technical d prototyping methods to reduce

Leadership II

ctory discussions on theories of hip and leadership. Then, it focuses on nd development of products, processes, opics include design thinking, understanding and developing user/ stainable solution; generating technical d prototyping methods to reduce

Scale and Distributed Systems

ving convex optimization problems ibuted systems with applications to nd functions, basics of convex analysis, ic programs, semidefinite programming, ptimization, duality theory, interior-point mal gradient methods, splitting and nultipliers (ADMM).

Structures

utational problems, with a focus on the algorithms. Efficient data structures will Igorithmic concepts. Topics are: run time analysis, divide-and-conquer algorithms, dynamic programming algorithms, network flow algorithms, linear and integer programming, large-scale search algorithms and heuristics, efficient data storage and query, and NP-completeness. This course will focus on the design and analysis of algorithms for general classes of problems.

3 Credits

3 Credits

3 Credits

3 Credits

199

CSEG 780	Principles of Computer System Design The course covers computer architecture, organization and design with an emphasis on the processor structure and functionality as well as memory hierarchy and IO devices. Topics include: Boolean algebra and digital logic; Combinatorial and sequential circuits; Processor data path and control path; Memory hierarchy; IO devices; Static and dynamic CMOS circuits; low power techniques, design tools and methodologies. The course also contains several case-studies that explore recent real- world designs from the recent research literature. Students will design and verify small test circuits using commercial CAD tools.	3 Credits
CYSE 610	Applied Cryptography The course covers cryptographic primitives such as one-way, collision- resistant hash functions, as well as the relevant number theory and discusses public-key encryption and basic key-exchange coupled with real-life applications. In a nutshell, the course studies how two parties who have a shared secret key can communicate securely when a powerful adversary eavesdrops and tampers with traffic. The course will also cover popular secure protocols such as zero-knowledge proofs. Throughout the course students will be exposed to a variety of open problems in the field.	3 Credits
CYSE 630	Computer and Network Security This course covers the concepts of assets, vulnerabilities, controls, threats and attacks, security measures and mechanisms. The course will introduce the fundamental concepts of security technology for computer networks, and the applications of these technologies. Topics include an overview of fundamental cryptography, authentication, encryption, digital signatures, digital certificates, and network security protocols such as IP Sec, SSL, etc. Students will also obtain the fundamental knowledge	3 Credits

CYSE 640 Security Risk Analysis

detection systems.

This course explores the basic elements of risk and to introduce security risk assessment methodologies and related tools used by many of the world's major corporations. The choice of the tools and methods in this course are based on its popularity in practice and enables the course to address cybersecurity issues related compliance with security policies, external standards and with appropriate legislation.

on network security mechanisms such as firewall and network intrusion

3 Credits

CYSE 720

		CYSE 727

edits **CYSE 728**

CYSE 729

Data Privacy

This course covers the concepts, technologies, practices and challenges associated with Information Security and Privacy, and a broad view of the subject, which includes looking at relevant business, organizational, human, legal and policy issues. The course combines technical discussions with a wealth of examples from enterprise and government systems, social networking, mobile and pervasive computing, privacy standards like HIPAA or GLBA, and much more. The course combines formal lectures with discussion of recent, hot topics and how they relate to data privacy and the multi-facet challenges in practice and real world.

Wireless Networks & Security

The course explores the fundamentals of wireless networks as well as its security techniques and challenges. Students will learn a general overview of wireless networking standards, security issues and challenges in wireless networks, and security mechanisms in wireless technologies. Students will also learn security techniques in existing networks such as mobile ad-hoc networks, sensor networks, and wireless mesh networks as well as emerging networks such as smart grids, internet of things, and vehicular networks. Finally, the course will cover a general overview of physical layer security that exploits wireless channels for improving security of wireless networks.

Distributed Systems Security

This course focuses on fundamental and advanced concepts in Distributed Systems, addressing their foundations, current technologies, and security aspects. Topics include, but are not limited to, distributed hash tables (peer-to-peer systems), failure detectors, synchronization, election, distributed agreement, consensus, gossiping, replication, keyvalue stores, NoSQL, blockchain technology. These topics are discussed in the context of real-life and deployed systems such as clouds and datacenters, databases, peer to peer systems, clusters, cryptocurrencies.

Multimedia Security

This course has several objectives: (i) delivering fundamental and advanced concepts about multimedia content representation, (ii) highlighting the trade-offs between quality and multimedia channel capacity, (iii) designing and implementing security tools to protect multimedia content.

3 Credits

3 Credits

3 Credits

3 Credits

Network Forensics			
This course exposes students to practical issues involving the monitoring and investigation of private data communications. Issues considered include such topics as network monitoring, network data collection, network flows, and visual security analysis. Students will learn how to perform forensic investigations of network- based attacks, through a series of lab exercises, hands-on assignments, and a term project.	3 Credits	DSEG 733	Advanced Data Management System This course covers several advanced da that are commonly used in practice. The graph databases, column-oriented datab cloud-based databases, and spatial data indexing, query processing, protocol des and system architecture.
Computational Forensics	3 Cradits	DSEG 735	Learning from Data
This course builds the necessary awareness required to assess physical and digital crimes at local, regional and global levels. Assessment, in this context, includes the evaluation of the nature of the crime, handling and tracking physical and digital evidence connected to the crime in a manner consistent with legal requirements for presenting forensic	3 Creaits		This course covers the theory, algorithm computational learning. The technical to models, theory of generalization, regular networks, support vector machines, as v and a term-long project with big dataset
evidence. Students will learn about various state-of-art computational		DSEG 760	Machine Learning
also builds awareness of intelligence practices across the globe that have bearing on crime investigation, especially of organized crime.			This course deals with intermediate and learning. Topics to be covered include: li regression, support vector machines, Ba network, conditional random fields, infer
Applied Deep Learning	3 Credits		graphical models, learning methods for
This course covers intermediate-level topics in deep learning, including: deep neural network (DNN) components and architectures, DNN training			applications of machine learning metho
and optimization, convolutional neural networks, recurrent neural networks, attention mechanism, reinforcement learning, and applications of deep learning in computer vision, speech recognition and natural language processing.		HSRM 650	Field Project in Hospitality, Retail, and S This course aims to equip students with of quantitative methods used in the field sport management. The course covers b principles, and methods required for scie
Special Topics in Data Science and Engineering	3 Credits		problems in HRSM. The primary topics v confidence interval, hypothesis testing, l
This course covers a variety of timely, cutting-edge areas in Data Science and Engineering. Taught by our faculty research scientists from our research institutes or industrials, this course allows students to keep up with critical trends and topics in the field of Data Science and Engineering.			linear regression and multiple linear regression and multiple linear regression and multiple linear regreserch data and reporting research findings.
	 monitoring and investigation of private data communications. Issues considered include such topics as network monitoring, network data collection, network flows, and visual security analysis. Students will learn how to perform forensic investigations of network-based attacks, through a series of lab exercises, hands-on assignments, and a term project. Computational Forensics This course builds the necessary awareness required to assess physical and digital crimes at local, regional and global levels. Assessment, in this context, includes the evaluation of the nature of the crime, handling and tracking physical and digital evidence connected to the crime in a manner consistent with legal requirements for presenting forensic evidence. Students will learn about various state-of-art computational tools used in forensic analysis of different types of evidence. The course also builds awareness of intelligence practices across the globe that have bearing on crime investigation, especially of organized crime. Applied Deep Learning This course covers intermediate-level topics in deep learning, including: deep neural network (DNN) components and architectures, DNN training and optimization, convolutional neural networks, recurrent neural networks, attention mechanism, reinforcement learning, and applications of deep learning in computer vision, speech recognition and natural language processing. Special Topics in Data Science and Engineering This course covers a variety of timely, cutting-edge areas in Data Science and Engineering. Taught by our faculty research scientists from our research institutes or industrials, this course allows students to keep up with critical trends and topics in the field of Data Science 	monitoring and investigation of private data communications. Issues considered include such topics as network monitoring, network data collection, network flows, and visual security analysis. Students will learn how to perform forensic investigations of network- based attacks, through a series of lab exercises, hands-on assignments, and a term project.3 CreditsComputational ForensicThis course builds the necessary awareness required to assess physical and digital crimes at local, regional and global levels. Assessment, in this context, includes the evaluation of the nature of the crime, handling and tracking physical and digital evidence connected to the crime in a manner consistent with legal requirements for presenting forensic evidence. Students will learn about various state-of-art computational tools used in forensic analysis of different types of evidence. The course also builds awareness of intelligence practices across the globe that have bearing on crime investigation, especially of organized crime.3 CreditsMappied Deep LearningApplied Deep Learningand optimization, convolutional neural networks, recurrent neural networks, attention mechanism, reinforcement learning, and applications of deep learning in computer vision, speech recognition and natural language processing.3 CreditsThis course covers a variety of timely, cutting-edge areas in Data Science and Engineering. Taught by our faculty research scientists from our research institutes or industrials, this course allows students to keep up with critical trends and topics in the field of Data Science3 Credits	monitoring and investigation of private data communications. Issues considered include such topics as network monitoring, network data collection, network flows, and visual security analysis. Students will learn how to perform forensic investigations of network- based attacks, through a series of lab exercises, hands-on assignments, and a term project. Demonstration of the exercises, hands-on assignments, and a term project. Demonstration of the exercises, hands-on assignments, and a term project. Demonstration of the exercises, hands-on assignments, and constraints, includes the exercises, hands-on assignments, and digital crimes at local, regional and global levels. Assessment, in this context, includes the evaluation of the nature of the crime, handling and tracking physical and digital evidence connected to the crime in a manner consistent with legal requirements for presenting forensic evidence. Students will learn about various state-of-art computational tools used in forensic analysis of different types of evidence. The course also builds awareness of intelligence practices across the globe that have bearing on crime investigation, especially of organized crime. Applied Deep Learning 3 Credits This course covers intermediate-level topics in deep learning, including: deep neural network. (DNN) components and architectures, DNN training and digitini computer vision, speech recognition and natural

3 Credits

anced data management systems tice. These include data warehouses, ted databases, distributed databases, atial databases. Topics include storage, tocol design, transactions processing

Igorithms, and applications of hnical topics covered include linear n, regularization and validation, neural nes, as well as specialized techniques datasets.

diate and advanced topics in machine nclude: linear regression, logistic hines, Bayesian networks, Markov elds, inference methods based on hods for graphical models, and recent ng methods.

ail, and Sport Management

ents with knowledge and understanding in the fields of hospitality, tourism, and e covers basic statistical concepts, ed for scientific investigation of research y topics will include descriptive statistics, testing, bivariate correlation, simple inear regression analyses. Students will data and utilize statistical output for 3 Credits

3 Credits

HSRM 700	Quantitative Methods in Hospitality, Retail, and Sport Management This course even though intended to provide a student with practical work experience, the field project is also an academic course with corresponding assignments and projects. These assignments and projects should stimulate the student to maximize his or her experience and integrate classroom learning with real world application.
ICT 601	Research Methods and Ethics This course is a foundational course for graduate students who will be engaged in research. It provides students with an introduction to ethics and ethical misconduct, intellectual property and environmental health and safety as well as scientific thought and design of experiments. A focus of the course is to transition students from textbooks to primary literature as their main source of information.
ICT 615	Al for Social Media and Multimedia Applications This course covers fundamental and novel artificial intelligence (AI) technologies for social media and multimedia applications. The students will read and present selected references about AI for social and multimedia computing, and learn the hands-on skills to implement or modify existing AI algorithms. Beside these technical understanding of involved AI technologies, the students will propose and implement creative social media or multimedia applications using AI technologies. The student will complete assignments, class-activities and projects individually or in groups.
ICT 620	Computer Graphics This course is at the core of visual computing. It provides an overview over the fundamentals of computer graphics such as digital representations for 3D models, GPU-accelerated OpenGL, rasterization, ray-tracing, shading, lighting, texturing, etc. Selected advanced and hot topics will also be covered. The course will be complemented by

practical assignments using WebGL, running in any modern web browser

and providing students with immediate visual feedback.

3 Credits	ICT 632
3 Credits	
	ICT 660
3 Credits	
	ICT 665
3 Credits	
	ICT 666

Advanced Applications of the Web and Internet

This course covers advanced techniques for building and maintaining practical applications of the Web and Internet. Main topics include web services, search engines, mobile web, practical aspects of the backbone techniques of the web, solutions for dealing with the rapidly growing and evolving web, and algorithms for handling the uncertainties in web data. The course will also cover selected topics of the state-of-the-art applications of the web techniques. The course is interdisciplinary in nature and has a wide breadth.

Principles of Health Informatics

The objective of this graduate level course is to provide data science students with an overview of the Health Informatics domain and introduce them to major concepts, areas, and ideas evolving within the discipline of Health Informatics. Key challenges and opportunities for the health data scientist will be highlighted. Students will gain insights and develop a solid base in understanding, analyzing and evaluating health information systems to support data science research and projects.

Artificial Intelligence and Machine Learning in Healthcare

This course covers both mathematical concepts and tools related to artificial intelligence (AI), with their application in real-world healthcare problems. Topics will cover concepts on uncertainty, searching algorithms, classification techniques, clustering techniques and application of AI in solving different healthcare related problems. This course will concentrate on building machine learning models to solve different open research problems in the field of genomics, bioinformatics, cheminformatics, drug discovery, healthcare etc.

Computational Bioinformatics

The aim of this course is to introduce the fundamental of bioinformatics algorithms and different bioinformatics methods for health management and life science students and researchers. It aims to give an overview of genomic and epidemiologic questions and to communicate the statistical and computational ideas behind the key analysis methods in these fields. This course does not assume that the student has a background in molecular biology, but rather introduces both the biological and mathematical concepts.

3 Credits

3 Credits

3 Credits

ICT 668	Medical Image Processing The first part of this course introduces medical imaging, with a focus on magnetic resonance imaging, x-ray computer tomography, ultrasound, and nuclear medicine. The second half of the course introduces students to basic concepts in digital image and signal processing. After an introduction to the area of image processing and a brief mathematical review, we will cover the fundamental techniques of image processing, including image enhancement in spatial and	3 Credits	ICT 675	Healthcare Information Systems The course provides the basic foun understand, manage, and evaluate within a healthcare environment. Th information system related regulati relevant issues pertaining to middle working within the health care infor
	frequency domains, image restoration, image segmentation, image description, and mathematical morphology.		ICT 676	Information Systems Analysis and The course develops comprehensiv as practical skills related to the dev
ICT 670	Information Technology Project Management The course addresses the growing need for better management of information technology projects. It covers the key elements of the project management framework, including project stakeholders, the project management knowledge areas, common tools and techniques, and project success. It covers planning methods and techniques required for defining, planning, integrating and implementing information technology projects consistent with the organizational strategic plan and mission. On successful completion of the course, students will	3 Credits		systems. This course deals with the techniques, tools, and perspectives Upon successful completion of the to gather data, analyze and specify design system components and en detailed models that assist in imple system and its compliance to the re constraints of its social and organize
	have a good understand of the relationship between project, program, and portfolio management and the contributions they each make to enterprise success. They should be able to explain what a project is, provide examples of information technology projects, list various attributes of projects, and describe the triple constraint of projects.		ICT 690	Special Topics Special topics in ICT allow students cutting-edge areas in ICT. Taught b from our research institutes or indu students to keep up with critical tre
ICT 671	Information Systems Management The course focuses on issues managers face in the selection,	3 Credits	ICT 695	Master's Thesis Hours
	procurement, use, and management of information technology assets. It presents a detailed study of the issues, principles, techniques and best practices in managing information systems and enterprise knowledge		ICT 698	Industrial/ Project
	as organizational resources. Topics include IT operations, information technology and strategy, information technology and organization, assets management, performance evaluation and benchmarking, hardware and software acquisition, physical environments and security issues, outsourcing and partnerships.		ICT 701	Graduate Research Seminars Research seminar to be presented as students. Satisfactory attendance to the grade Pass.

3 Credits

oundations and tools needed to te information systems effectively . The course will review health lations and standards and explore Idle and senior level management formation system domain.

nd Design

sive theoretical knowledge as well development process of information the concepts, skills, methodologies, ves essential for systems analysts. the course, students should be able ify the requirements of a system, environments, build general and plementation and validation of the e requirements, preferences and anizational environment.

nts to examine a variety of timely, t by our faculty research scientists idustrials, this course allows trends and topics in the field.

ed by invited speakers as well ance and presentations lead 3 Credits

3 Credits

0-6 Credits

6 Credits

ICT 705	Applied Data Analytics	3 Credits	ICT 725	Quantum Computing
	This course covers cutting-edge algorithms and software tools for data analysis, including the analysis of various types of data such as	e oreane	101720	This course aims to provide a solid u of Quantum Computing. In the first h
	time series, texts and images. Main topics include data visualization,			Mechanics and its mathematical treater
	advanced regression and classification solutions, advanced data			building blocks of Quantum Comput
	reduction techniques such as dimensionality reduction and kernel PCA,			how to build them, and their physical
	as well as application-specific tools and methods. In addition, the course			we introduce Quantum Cryptography
	also introduces common software tools and libraries which can be			as examples of Quantum Computing
	used as building blocks for designing and developing novel data analysis applications.			with discussion on Quantum Informa
			ICT 736	Interactive Design for Healthcare
ICT 706	Independent Studies	3 Credits		This course exposes students to the
	Independent studies offers an opportunity for students to perform			including being involved in existing p
	independent research work in any area related to Computer Science			in Qatar. The students will study a va
	and Engineering under the supervision of a faculty member.			interactive technologies that are cur
				be used in the near future to support
ICT 716	Data Science Tools and Applications	3 Credits		pair up in groups of 2 and explore th
	The course objectives are to equip the graduate students with			technology in one of the domains dis
	intermediate-level concepts and tools of data science, their properties,			
	and their applications to practical problems. Furthermore, knowledge of		ICT 890	Dissertation Hours
	how to apply these data science concepts and tools to solve real-world			
	problems in health, engineering, finance, transportation and energy will		LSCM 601	Research Ethics and Methods
	be important objectives.			This LSCM core course prepares stu
				level research. It introduces students
ICT 720	Cloud Computing	3 Credits		critical exploration of research, locat
	The course focuses on the technologies associated with the cloud			relevant literature, developing a rese
	computing infrastructure and the usage of the cloud in different			with an appropriate research method
	application domains. The first part of this course introduces core cloud			research design. One focus will be o ethical misconduct. Throughout the
	computing architectures and basic concepts. The second part of the			a causal model, will be acquainted w
	course delves into systems aspects such as fault tolerance, consistency, resource allocation, and quality of service in the context of particular			developing a research proposal.
	cloud applications, such as distributed machine learning algorithms,			2010.0pm.g 210002.00 proposan
	real-time multimedia, or cloud-enabled Internet of Medical Things.		LSCM 605	The Pricing of Financial Contracts
	,			This course serves as an introductio
				of risky assets and the theory of price
				or maky assets and the theory of pho

of financial markets.

3 Credits

solid understanding of the fundamentals first half, we give an overview of Quantum cal treatment. We then introduce the omputing and discuss how they work, nysical realization. In the second half, graphy and Quantum Machine Learning, puting applications. Finally, we conclude nformation theory.

to the healthcare domain at large, sting project work within medical institutes dy a variety of cutting-edge user-centered re currently being used and can potentially upport healthcare. The students will ore the introduction of new interactive ins discussed in class.

es students for performing graduate udents to multi-disciplinary methods for locating and summarizing and critiquing a research problem, framing a problem nethod, and constructing a coherent Il be on an introduction to ethics and ut the course, students will be developing nted with peer review, and will be

acts

duction to financial markets, the models of risky assets and the theory of pricing contracts based on these assets. The course exhibits the basic features of financial derivatives. These instruments are defined, their payoffs and the markets in which they are traded are considered, and the importance of valuing these instruments in the absence of arbitrage is discussed. The course will provide students with a thorough understanding of the mechanics

3 Credits

0-9 Credits

3 Credits

LSCM 607	Optimization Models and Methods	3 Credits	LSCM 621	Project Management in Logistics
	This course covers a thorough understanding of optimization methods and models. On successful completion of the course, students will be able to: define and formulate linear programming problems and appreciate their limitations; solve linear programming problems using appropriate software and computer packages, and interpret the results obtained; conduct and interpret post-optimal and sensitivity analysis; and explain the primal-dual relationship. Moreover, students will be able to formulate and solve a wide range of traditional logistics and supply chain combinatorial problems. Students will also be exposed to some			This course prepares students for managing focus on large-scale projects for logistical inf and shipping (i.e. airports and seaports). Par large-scale projects. Here, essentials about th management will be presented and discusse administration point of view. Part 2 will apply essentials to projects for logistical infrastruc and shipping.
	well-known advanced optimization techniques that might be covered		LSCM 625	Behavioral Logistics Management
LSCM 611	in other electives. Supply Chain Management	3 Credits		The course focuses the students on being ab than to only describe, approaches to strategic management. Here, there are no uniform solu
	This course aims at showing that any organization must be analyzed as a component of a Supply Chain in which the different actors (suppliers, manufacturers, retailers) as well as the different functions (marketing, production, finance) interact. Understanding and mastering the relationships between these different areas will improve the effectiveness (achieving the objectives) and the efficiency (achieving			causality are two constructs to be dealt with management. The conceptualization and ana cause systems is critical for decision-making approaches as well as qualitative approaches behavior) are elements of decision making fo
	the results at least cost) of the system.		LSCM 627	Simulation Optimization Methods
LSCM 617	Production and Operations Management Production & Operations Management is defined as the set of processes which transform the inputs/resources of an organization into final goods /services through a set of defined, controlled and repeatable policies. This course covers a thorough understanding on managerial processes for effective operations in both goods-producing and service- rendering organization. Emphasis is on specific tools and strategies used to manage and enhance a firm's operations and production, such as Inventory management, Demand forecasting and Production Planning and Scheduling. The course will also introduce simulation modelling to solve complex operations management problems.	3 Credits		The course introduces decision support syst optimization methods to solve complex prob values of continuous and discrete variables f without explicitly evaluating each possibility. methods aims to minimize solving resources the information obtained in a simulated or m difficulties from lack of analytical formulation nonlinearities, non-differentiable functions, ve consuming optimized solutions force the use optimization approaches when solving multi- multi-scenario problems as those found in in and supply chains.
			LSCM 631	Port Management and Maritime Logistics

The course examines how ports are organized, managed and planned, and how ports interface with the logistics chain. The course provides necessary knowledge and understanding of the principles and evolution of container terminal management, port indicators, maritime supply chain management and environmental issues that arise from port operations and maritime transportation.

3 Credits

udents for managing projects, with a special jects for logistical infrastructures in aviation ts and seaports). Part 1 will focus on managing re, essentials about the concept of project esented and discussed from a business view. Part 2 will apply these methodological or logistical infrastructures in aviation

anagement

students on being able to explain, rather pproaches to strategic challenges of logistics re are no uniform solutions. Complexity and ructs to be dealt with in strategic logistics eptualization and analysis of cause-effectal for decision-making. Therefore, quantitative qualitative approaches (i.e. focusing on the of decision making for strategic challenges.

n Methods

lecision support systems based on simulation o solve complex problems by finding better input nd discrete variables from among all possibilities ating each possibility. Simulation optimization ize solving resources spent while maximizing d in a simulated or measured experiment. Major analytical formulation, presence of uncertainties, rentiable functions, very expensive and timeolutions force the use of simulation-based es when solving multi-scope, multi-scale and as those found in industrial manufacturing

3 Credits

3 Credits

LSCM 635	Business Performance Management	3 Credits	LSCM 690
	This course focuses on interdisciplinary approaches to financial and		
	operational performance measurement and management. The course		
	emphasizes an exploratory- and explanatory-focused approach in that		
	students develop case studies. In order to build these on a framework,		LSCM 695
	the course introduces the conceptual approaches to performance		
	management with an emphasis on logistical systems. The course highlights the current research in the management domain. Both, the		LSCM 701
	theoretical and the research parts are aimed at building the framework		
	for students to build their cases.		
LSCM 641	Facility and Transportation Management	3 Credits	
	This course is emphasizing on applying industrial engineering principles		
	and techniques to analyze, design and improve facility layout and		10014 704
	transportation networks in industrial enterprises and services systems.		LSCM 706
	In addition to bringing together the knowledge gained in many previous		
	courses, the topics of this course include tools and methods for		
	planning new facilities and transportation networks and to revise		
	or expand existent ones.		LSCM 711
LSCM 651	Financial Techniques for Investment Appraisal	3 Credits	
	The course introduces students to basic mathematical models for		
	assessing investments and projects taking place over a period of		
	time. The course explains how concepts of compound interest and		
	discounting are used to value payments to be made in the future.		
	Compound interest functions are introduced and formulae for regular		
	or varying payments made for specified periods are derived. Practical		
	applications are demonstrated by analyzing problems relating to investments such as bonds and ordinary shares.		
	investments such as bonds and ordinary shares.		LSCM 721
LSCM 671	Principles of Reinforcement Learning for Engineering Management	3 Credits	
	The course will introduce the Principles of Reinforcement Learning		
	(RL) for Engineering Management. Starting from the basics of Markov		
	Decision Processes (MDP) the course will cover a broad set of		
	techniques including Value Iteration, Policy Iteration, Q-Learning, Policy		
	Gradient, Actor-Critic Methods. The use of function approximation		
	techniques (including Neural Networks) to approximate the state-space		
	will be elaborated. Applications from Traffic Management, Logistics		

and Supply Chains will be introduced to apply theory to practice.

Applied Project

Fulfilling curriculum requirements industrial project.

Master's Thesis Hours

Research Seminar

The LSCM research seminars will and academics in the field of logis The objective of which is to expos in research and industrial practice chain management.

Independent studies

This course offering is designed to by student in special topics.

Supply Chain Modeling and Optim

This course will review the major so over the last four decades. The coaddress the issue the decision macomplexities within supply chains approaches. These innovations has chains especially through Informa enablers. Most of the modeling wisuch as Excel Solver as well as leas chain innovations.

Advanced Topics in Supply Chain

This course extends the knowledg to learn advances tools to model a arising in supply chain management the deterministic context but will of in which the input data are not know can be represented through a prob software packages will be also use applications in reasonable amount

s in the form of an applied	3 Credits
	0-6 Credits
l consist of industrial professionals istics and supply chain management. se participants to the latest trends es within logistics and supply	3 Credits
to enable independent studies	3 Credits
mization supply chain innovations developed ourse is specifically designed to taking processes of the dynamic s using modeling and optimization have transformed tremendously supply ation Technology and digitalization will be performed using basic tools earning about the evolving supply	3 Credits
n Management ge acquired in basic courses in order and solve quantitative problems ent. The course will focus not only cover even the stochastic settings nown with certainty in advance but obability distribution. Specialized sed in order to solve real-life logistics nt of time.	3 Credits

LSCM 731 LSCM 890	Industry 4.0 in Manufacturing and Supply Chain The course introduces the fundaments related with the Industry 4.0 in manufacturing and its interface with the qualogistics chain considering both logistics and qualities aspects of the supply chain. The course provides necessary knowledge and understanding of the evolution of the industrial activities and supply chain management toward the so called smart production and high-performance qualogistics that arise from the technologies in this new industrial era.	3 Credits	SENR 742	The Life Cycle of Oil and Gas Fields This course focuses on the life cycle o the upstream component. It discusses operational aspects for this componen operations, formation evaluations, well will be studied. Moreover, it focuses or enhanced oil recovery, reservoir simula cycle of a well and the abandonment p environmental effects for this compon and how it has decreased over the pas
L2CIN 890	Dissertation Hours	0-9 Credits		
POLS 242	Islamism and Politics in ME	3 Credits	SENR 743	Photovoltaic Solar Technology
SENR 615	Oil and Gas Geopolitics This course focuses on geopolitical aspects of the oil and gas industry starting with an introduction of history of oil and gas and the geopolitics. It provides a global understanding of sources of crude oil and natural gas; current statistics of oil and gas reserve and production; economic analysis and environmental impacts of the oil and gas industry; finance and current market share; the future of this fossil fuel industry versus	3 Credits		This course focuses on various aspect the history of oil and gas and the geop of crude oil and natural gas; current sta and production; the process from extra (Well to Wheel); natural gas in Qatar; na and storage; economic analysis and er and gas industry; petroleum finance ar of this fossil fuel industry versus susta
	sustainable energy resources.		SENR 744	Renewable Energy Systems
SENR 727	Science and Engineering of Thin Films and Interfaces It introduces fundamentals of thin films and their applications in solar PV.	3 Credits		This course is about comparative disc systems and implementing the knowle energy projects.
			SENR 750	Energy Storage Devices and Systems
SENR 740	Energy Resources, Generation, Science and Technology It introduces comparatively basic technology and economic aspects of various energy resource technologies.	3 Credits		This course is an introduction to the fu of lithium ion batteries, and the classifi electrolytes and anodes based on their and thermal properties. The course als
SENR 741	Oil and Gas Technology and Economics This course focuses on various aspects of the oil and gas industry; the history of oil and gas and the geopolitics of the industry; sources of crude oil and natural gas; current statistics of oil and gas reserve and production; the process from extraction to consumer delivery (Well to Wheel); natural gas in Qatar; natural gas processing, transport, and storage; economic analysis and environmental impacts of the oil and gas industry; petroleum finance and current market share; the future of this fossil fuel industry versus sustainable energy resources.	3 Credits		reactions, kinetics and transport mech phenomena in batteries. Projects deali ion batteries for electric vehicles and s

3 Credits

life cycle of an oil and gas fields; specifically, t discusses the technical, theoretical and component. Drilling technologies and ations, well testing, and production strategies focuses on the recovery mechanisms, rvoir simulation and management, the life ndonment process. Finally, it discusses the nis component of the oil and gas industry over the past decades.

ious aspects of the oil and gas industry; nd the geopolitics of the industry; sources ; current statistics of oil and gas reserve s from extraction to consumer delivery in Qatar; natural gas processing, transport, lysis and environmental impacts of the oil n finance and current market share; the future ersus sustainable energy resources.

arative discussions of renewable energy the knowledge gains in specific renewable

d Systems

on to the fundamentals and applications the classifications of the different cathodes, sed on their physicochemical, structural course also reviews the electrochemical sport mechanisms, and interfacial ojects dealing with the application of lithium hicles and solar energy will be included.

3 Credits

3 Credits

SENR 754	Smart Power Grids	3 Credits	SENS 681	Integrated Sustainable Design for the Built Environment	3 Credits
	Smart Power Grids course will provide fundamental insights into century long energy studies that aims to match the demand with the supply, as well as a decade long re- search and development efforts in Smart Energy Grids to improve the energy efficiency, reliability, and			Students gain principles of sustainable design, and implement, demonstrate and debate them for specific built-environment projects in teams.	
	environmental aspects of the power grids. More specifically, the course will provide a rich introduction to the new multi-disciplinary field of smart grids and it will cover variety of special topics including demand response, advanced metering networks, communication and sensing technologies, distributed energy generation and storage, electric		SENS 698	Industrial/Applied Project The student formulates and undertakes an independent scientific research project under the supervision of their research adviser. A successful thesis defense leads to a Pass grade.	3 Credits
	vehicles, wide-area power system monitoring, energy markets, and cyber-security.		SENS 695	Master's Thesis Hours	0-6 Credits
SENR 755	Micro-grids: Operation, Management and Planning It is about applications of smart grid technologies for small-scale applications.	3 Credits	SENS 701	Research Seminars Research seminars are a regular slot for invited speakers and students to present scientific research and be listen to Sustainability related topics outside their main research focus.	0 Credits
SENS 601	Research Methods and Ethics The course prepares students for performing graduate level research. It introduces students to quantitative and qualitative methods for critical exploration of research, locating and summarizing and critiquing relevant literature, developing a research problem, framing a problem with an	3 Credits	SENS 706	Independent Studies In this course, students conduct a special research or study a special topic under the direction and guidance of their advisers.	3 Credits
	appropriate research method, constructing a coherent research design. Introduction to ethics and ethical misconduct, intellectual property and environmental health and safety. Through the course students will be developing a research proposal.		SENS 712	Environmental Quality and Health The course will provide an overview on the relationship between Environmental Quality and health and the link to economic growth and sustainable development. Case studies will demonstrate the importance of growth, expansion of urban population and their impact on land, and	3 Credits
SENS 611	Sustainability Fundamentals and Tools This course gives a general introduction to sustainability and how this concept evolved from the environmental movement of the post-World Water 2 era to the present. It outlines the major global issues that	3 Credits		water resources quantity and quality. In addition the course will cover the risks, transport and toxicity mechanisms associated with Chemicals of Emerging Concern in daily life, industry, and drinking water.	
	sustainability confronts, the major stakeholders involved and the barriers that prevent the wide scale application of sustainability principles. Students will be introduced to the main methods of quantifying sustainability, assessing the strengths and limitations of each method.		SENS 714	Sustainability: Energy, Environment and Economics This course provides an introduction to the interactions between energy, environment, economics and society, and how these impact sustainable development. The course will explore the influence of society through population growth, changing consumption rates and a desire to grow GDP on the extraction and utilization of energy sources and related environmental impacts. In particular the course will focus on the economic and social impacts of renewable energy development and environmental resource management.	3 Credits

SENS 715	Life Cycle Accessment - LCA	3 Credits	SENS 721	Advanced Materials Synthesis an
SENS / 13	Life Cycle Assessment – LCA The need for sustainable engineering is fueling the development of novel tools and techniques for studying the behavior of industrial systems and their relationship with the biosphere and society. Life Cycle Assessment (LCA) is an environmental modeling method that has become increasingly popular within business and academia for evaluating the environmental impacts of products or systems. LCA considers impacts along the entire life cycle, from production to consumption to disposal, and generally provides quantitative information for a range of different environmental issues to inform decisions. This course enables students to develop a practical understanding of the intellectual foundation and	3 Credits	SENS 721	This course provides an overview processing and characterization to used in energy, water, and electron physical processes to synthesize including nanostructures, thin film also provides basic training in adv such as AFM, SEM, XPS, TOF-SIM advanced tools related to PV char and micro PCD) will be as well inter
	to develop a practical understanding of the intellectual foundation and standards of LCA, common databases and software packages used,		SENS 722	Sustainable Chemical Industry - A
	and their application to products and systems. Process-based analysis models, input-output and hybrid approaches are presented for LCA. This is a research-based course and is suitable for students interested in researching in depth a particular topic.			This course will introduce principl chemical process design to reduc environment. Specific examples w industrial chemical processes in a an up-to-date insight into the mair optimization.
SENS 716	Efficiency: Resource Use and Behavioral Analysis	3 Credits		optimization.
	This course explores the various uses of energy and other resources in a variety of human activities, the relative magnitudes of resource consumption and waste and the technological, social and economic factors that impact energy and resource efficiency and conservation.		SENS 728	Electrochemistry and Environmen This course is designed for gradua in learning by doing in the area of environmental corrosion. The cour make electrode and cells (e.g., bat
SENS 718	Sustainable Cities and Urban Mobility	3 Credits		study corrosion behavior of metal
	This course provides students with a broad and multidisciplinary exploration of sustainable cities and transportation concepts and practices. The course will explore urban planning; mobility issues, their impacts on environment, local climate, air quality and life experiences; and the interdependencies between urban design and human/public			that develop in our living environm advanced techniques used to und particular corrosion processes an such as corrosion potential and co
	health and wellness.		SENS 729	Electrochemistry and Electrochem
				This course is about introducing f
SENS 719	Energy Water Food (EWF) Nexus This course investigates the nexus of energy, water and food (EWF) resources and the complex interaction with human behavior and natural systems, in addition to the inter-dependencies that exist between the EWF resources themselves. The social, technical and economic nature of these interdependencies is explored throughout the life cycle of various systems to determine optimal solutions for a sustainable future.	3 Credits		of electrochemistry in energy stor

and Characterization

ew and hands on experience on n techniques of advanced materials tronics applications. Both chemical and ze and deposit materials in various scales ilms and bulk are tackled. The course advanced characterization technics IMS, XRD, Raman and FTIR. In addition, naracterization (e.g. TRPL, PL mapping introduced in-depth.

- A Green Approach

ciples and practices of sustainable duce industry's impact on the s will cover the possibilities of running in a sustainable manner and provide nain concerns for sustainable process

nental Corrosion

duate students who are interested of applied electrochemistry and course specifically focuses on how to battery). Also, the course extends to etallic substrates under a given condition onment. Furthermore, the course teaches inderstand electrode reactions in and estimate important parameters, d corrosion rates.

nemical Processing

g fundamentals and applications torage.

3 Credits

3 Credits

3 Credits

SENS 780	Green Building: Design, Construction and Operation The built environment is a major source of environmental impact. This course teaches all major aspects of green building design, construction and operation with life cycle thinking in order to reduce these impacts. All green building categories are covered: location & transportation, sustainable sites, energy and atmosphere, water efficiency, materials & resources, and indoor environmental quality. The United States Green Building Councils LEED rating system is used to demonstrate one possible green rating system.	3 Credits	SENV 713	Environmental Impact and Management Systems This course will review the main sources of pollution and present the methods for assessing their environmental impacts. Impact and management systems will be explored in the context of both local and international environmental legislation; the phases of an EIA; how emission and discharge limits are set; dispersion modelling; risk prioritization; and life cycle analysis. Actual case studies from the process industries will be discussed.	3 Credits
			SENV 745	Energy Nano-Technology	3 Credits
SENS 785	Design Innovation and Entrepreneurship I This course first provides introductory discussions on theories of design innovation, entrepreneurship and leadership. Then, it focuses on experiential learning for design and development of products, processes, systems and business models. Topics include design thinking, system thinking, design process; understanding and developing user/	3 Credits		This course introduces an overview of nanomaterials used for energy production, storage and conservation. The course provides an overview of the synthesis and characterization techniques for nanomaterial used in energy applications such as fuel cells, energy harvesters and energy storage devices.	
	stakeholder needs/input for a sustainable solution; generating technical and marketing specifications; and prototyping methods to reduce development time.		SENV 760	Air Quality and Climate Change This course introduces important aspects of air quality issues and its relevance to climate change.	3 Credits
SENS 786	Design Innovation and Entrepreneurship II This course first provides introductory discussions on theories of design innovation, entrepreneurship and leadership. Then, it focuses on experiential learning for design and development of products, processes, systems and business models. Topics include design thinking, system thinking, design process; understanding and developing user/stakeholder needs/input for a sustainable solution; generating technical and marketing specifications; and prototyping methods to reduce development time.	3 Credits	SENV 761	Atmospheric Chemistry and Climate Change This course provides an exploration of the chemical and physical processes occurring in the near-ground, troposphere and stratosphere including atmospheric composition, structure, transportation and the photochemically driven reactions. In turn students will gain an insight into the role of industrial emissions on smog, ozone depletion and climate change.	3 Credits
			SENV 770	Desalination Technologies	3 Credits
SENS 791	Geospatial Information Systems This course is about introducing information system fundamentals for geospatial applications.	3 Credits		This course provides an overview of water production in the Gulf Cooperation Council Countries (GCC) through Desalination Processes. The course will explore various technologies including thermal and membrane systems as well as power-cogeneration.	
SENS 890	Dissertation Hours	0-9 Credits	SENV 772	Water and Wastewater Treatment This course introduces students to important physiochemical and biological processes in wastewater treatment and the sustainable developments that are occurring in this field. Topics include priority contaminants, water discharge standards and design of suitable	3 Credits

municipal wastewater.

treatment processes with a focus on biological treatment of

SENV 773	Water Resources Management This course explores the water cycle with a particular focus on hydrology, water conservation, system efficiency, and issues of public health. A range of engineering and social science topics related to water use and management are covered.	3 Credits	SPTE 640
SENV 774	Water Treatment and Reuse The course develops graduate level concepts for the examination of drinking water quality and discussion of state of the art technologies for treating drinking water. Case studies will be introduced highlighting the inadequacy or susceptibility to failure of existing drinking water infrastructure to provide students with understanding of what challenges may come across in their professional practice, and how to avoid similar situations in future.	3 Credits	SPTE 670
SENV 776	Solid and Hazardous Waste Management This course introduces students to the characterization, separation, handling and disposal of various wastes from a variety of municipal, construction and industrial sources and explores management and societal issues, treatment/control technologies and resource recovery methods. Methods to eliminate, recover, recycle and re-use wastes are a major focus for this course.	3 Credits	SPTE 760
SENV 778	Principles of Hydrogeology This course introduces students to the fundamentals of hydrogeology and groundwater science. It covers the physical properties of the aquifers, groundwater flow, well hydraulics and groundwater developments, with emphasis on Qatar as a case study. The course also covers basics of groundwater modelling, protection and management.	3 Credits	
SPTE 590	Special Topics in Sport and Entertainment This course investigates special topics pertinent to the sport and entertainment management industry, and specifically examines in detail the concept of mega-event sport tourism. It examines mega-event sport tourism from both the sport and entertainment and hospitality and tourism sectors; including management of the Olympic Games, theories that may explain willingness to support the Olympic Games as a sport tourism mega-event and impacts of sport tourism mega-events in a geopolitical arena.	3 Credits	SPTE 777

Venue Management: Principles and Practices

The course examines the principles and practices associated with managing a public assembly venue (PAV) and the nature of the PAV business. The emphasis will be on assisting the student in understanding the concepts and related to this relatively new professional field. The course examines the types of issues that venue managers must consider, together with gaining some practice in applying concepts and principles to those issues.

Special Topics in Global Sport

This course investigates special topics pertinent to the sport and entertainment management industry, and specifically examines the critical role of broadcasting in the economy of the sport and entertainment industry. The course explores the various models for broadcasting rights, the political economy of sport broadcasting, and its contemporary developments. The course addresses the complex interactions between competition at local, regional and transnational levels.

Principles of Sport and Entertainment Marketing

This course examines the theoretical and practical aspects of sport and entertainment marketing including its dynamic nature and the importance of branding. It aims to provide an understanding of the importance of marketing and consumer behavior theory and fundamentals specific to the marketing of sport and entertainment. The course introduces students to marketing within the sport and entertainment industry, including the unique aspects of sport and entertainment as product, the sport and entertainment consumer market and the sport product market.

Sport and Events Logistics

This course brings together the strategic, planning, and operational roles of logistics when applied to sport and entertainment management. The aim is the gain knowledge on how to apply logistics models and methods for the optimal management of personnel, facilities and flows involved in sport and entertainment events.

3 Credits

3 Credits

3 Credits

SPTE 781	Seminar on the	Olympic Games
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This course investigates special topics pertinent to the sport and entertainment management industry, and specifically examines in detail the concept of mega-event sport tourism. It examines mega-event sport tourism from both the sport and entertainment and hospitality and tourism sectors; including management of the Olympic Games, theories that may explain willingness to support the Olympic Games as a sport tourism mega-event and impacts of sport tourism mega-events in a geopolitical arena.

SPTE 790 Sport and Entertainment Finance

The course examines the concepts and principles of financial management, and its application within the sport and entertainment context. The course provides an understanding of the financial information necessary to perform the usual duties and responsibilities associated with sport facilities, programs and organizations.

SPTE 798 Directed Study in Sport and Entertainment Management

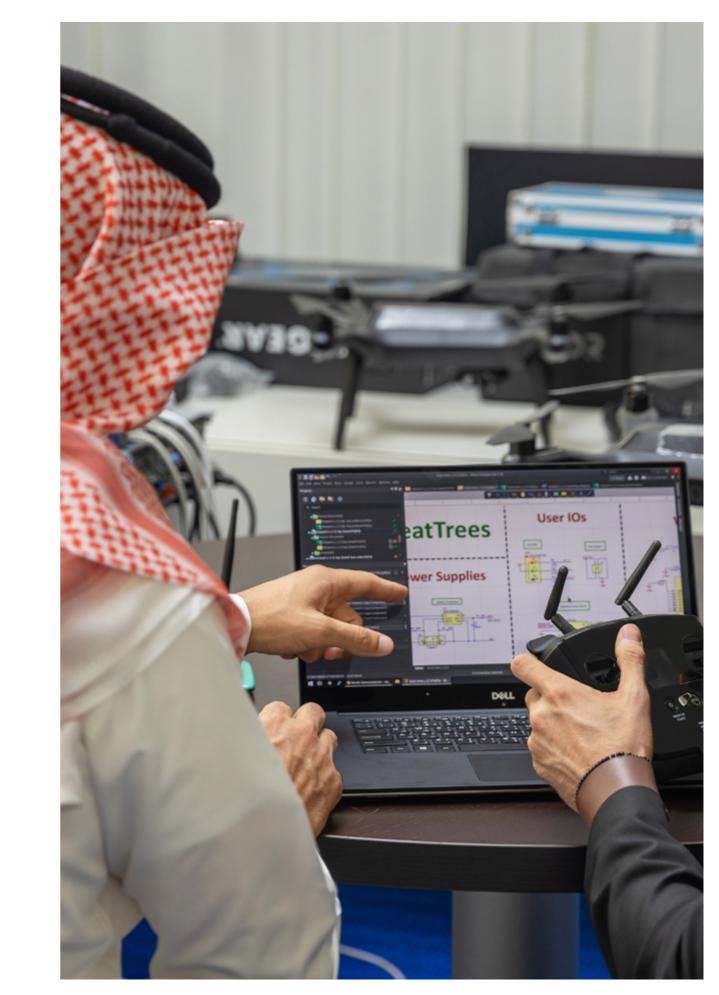
SPTE 798 is a course that focuses on a special project/ study and/or research undertaken Directedly by the student. Students are expected to embark on a project and/or study focusing on a particular aspect of sport and entertainment management, and is related to his or her special interest. Students are expected to undertake a set of activities, as agreed upon, based on the topic under study.

SPTE 799 Thesis Preparation

0-6 Credits

3 Credits

3 Credits



Subject Codes

College	Subject Code	Subject
Health and Life Sciences	BIOS	Biological Sciences
Health and Life Sciences	EPID	Epidemiology
Health and Life Sciences	EXSC	Exercise Science
Health and Life Sciences	GPM	Genomics & Precision Medicine
Health and Life Sciences	LS	Life Sciences
Health and Life Sciences	PUBH	Public Health
Humanities and Social Sciences	AT	Audiovisual Translation
Humanities and Social Sciences	AVT	Audiovisual Translation
Humanities and Social Sciences	CHN	Chinese
Humanities and Social Sciences	DHS	Digital Humanities
Humanities and Social Sciences	ENG	English
Humanities and Social Sciences	ENW	English Writing
Humanities and Social Sciences	HSS	Humanities and Social Sciences
Humanities and Social Sciences	ICC	Intercultural Communication
Humanities and Social Sciences	MAAT	Audio Visual Translation
Humanities and Social Sciences	MATS	Translation Studies
Humanities and Social Sciences	ME	Middle Eastern Studies
Humanities and Social Sciences	SPAN	Spanish
Humanities and Social Sciences	SS	Social Studies
Humanities and Social Sciences	TR	Translation Studies
Humanities and Social Sciences	TRD	Translation Studies
Humanities and Social Sciences	TS	Translation Studies
Humanities and Social Sciences	TSD	Translation Studies
Humanities and Social Sciences	WSD	Women Studies
Islamic Studies	AIE	Applied Islamic Ethics
Islamic Studies	CF	Contemporary Fiqh
Islamic Studies	CIS	Contemporary Islamic Studies

College	Subject Code	Subject
Islamic Studies	IAA	Islamic Art & Architecture
Islamic Studies	IF	Islamic Finance
Islamic Studies	IFI	Islamic Finance
Islamic Studies	IGA	Islamic Global Affairs
Islamic Studies	ISF	Islamic Studies Foundation
Islamic Studies	IST	Islamic Studies
Law	LAW	Law
Law	QL	Qatari Law
Public Policy	PPO	Public Policy
Science & Engineering	CPEG	Computer Engineering
Science & Engineering	CSE	Core Science & Engineering
Science & Engineering	CSEG	Computer Science & Engineering
Science & Engineering	CYSE	Cyber security
Science & Engineering	DSEG	Data Science & Engineering
Science & Engineering	ER	Energy & Resources
Science & Engineering	FIN	Finance
Science & Engineering	HRSM	Hospitality, Retail & Sport Mgt
Science & Engineering	ICT	Information Comm & Tech
Science & Engineering	LSCM	logistics & Supply Chain Mangt
Science & Engineering	PHYS	Physics
Science & Engineering	POLS	Political Science
Science & Engineering	SENR	Sustainable Energy
Science & Engineering	SENS	Sustainability
Science & Engineering	SENV	Sustainable Environment
Science & Engineering	SPTE	Sports & Entertainment
Science & Engineering	STLC	Student Learning Center

Contact Information

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