List of courses
School of Information and Computer Science

University Requirement Courses

Categories

All University Programs must fulfill those courses requirements offered externally to the school of Business. They are designed to constitute an integrative aspect to the university so that a learner signs for the University and not only to an individual Program in a segregated perspective. University requirement courses (UR) are of the following categories:

University Requirement Category	Courses to be taken from Category	Credits
Arts or sports	1	3
English Lang	3	9
Cultural study	1	3
Law or ethics	1	3
Math	1	3
Computer	1	3
Research	1	3
Total	**9**	**27**

List of UR courses per category

Category	Code	Course Name
Arts or sports	ART200	History of Islamic and International Art
	ART205	Basic of Photography
	SPO290	Sports
	SPO200	Recreational activities
English Language	ENG 101	English Language
	ENG 200	Sophomore Rhetoric
	ENG 300	Communication Art
	ENG 305	Academic writing
Cultural studies	CULT205	History of civilization
	SOCI205	Sociology
	CULT200	Culture 1 / Emirates History
Law or ethics	ETH200	Ethics and Practice
	LAW200	Food Governing Bodies
	LAW205	labor law
	LAW210	Trade Law
Math	MATH200	Applied Statistics
	MATH205	Business Mathematics
Computer	COMP200	Introduction to computers
	COMP205	Information Technology
Research	STAT400	Methodology of research

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Core Courses

Core courses are the courses taken by all information and computer science program learners:

Course Code	Course Name	Credits
MATH 207	Calculus 1	3
MATH 208	Calculus 2	3
MATH 307	Calculus 3	3
MATH 210	Discreet structures 1	3
MATH 310	Discreet structures 2	3
CSC201	Introduction to object oriented programing	3
CSC203	Objects and data abstraction	3
CSC302	Algorithm and data structure	3
CSC250	Computer Architecture and organization	3
CSC251	Computer Architecture and organization lab	1
CSC304	Operating systems	3
CSC306	Data Base management	3
CSC405	Systems and networking	3
CSC403	Parallel programing and cluster systems	3
CSC460	Software engineering	3
*390	Internship	1
*399	Seminar	1
*499	Graduation Project	3
	Total	**48**

*: can be CSCG, CSCS or CSSC according to learner's choice of emphasis.

Information and Computer Science Program Emphasis

Emphasis 1: Computer Science (CSCS)

Courses to be taken:

CSCS courses to be taken if information and computer science program learner chooses to emphasize on computer science.

Course Code	Course Name	Credits
CSCS202	Digital systems design	3
CSCS301	Advanced object oriented programing	3
CSCS302	Computer Vision	3
CSCS401	Deep learning	3
CSCS463	Computer Graphics	3
	Total	**15**

CSCS Elective List

CSCS elective list constituting of courses that information and computer science program learner desiring to emphasize on computer science should **choose 3** from.

Course Code	Course Name	Credits
CSC355	Biometrics Fundamentals	3
CSC365	Artificial intelligence	3
CSC375	Introduction to modeling simulation	3
CSSC355	Security foundations	3
CSC455	Webprograming	3
CSCG465	Introduction to game design	
CSC475	Data comunication and networks	

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Emphasis 2: Cyber Security (CSSC)

Courses to be taken:

CSSC courses to be taken if information and computer science program learner chooses to emphasize on cyber security.

Course Code	Course Name	Credits
CSSC202	Security Foundations	3
CSSC301	Disaster recovery	3
CSSC302	Digital forensics	3
CSSC401	Authentications and audits	3
CSSC463	Cryptography	3
	Total	**15**

CSSC Technical Elective List

CSSC elective list constituting of courses that information and computer science program learner desiring to emphasize on cyber security should **choose 3** from.

Course Code	Course Name	Credits
CSC355	Biometrics Fundamentals	3
CSC365	Artificial intelligence	3
CSC375	Introduction to modeling simulation	3
CSSC365	Wireless Networking Security	3
CSC455	Web programing	3
CSCG465	Introduction to game design	
CSC475	Data communication and networks	

Emphasis 3: Gaming (CSCG)

Courses to be taken:

CSCG courses to be taken if information and computer science program learner chooses to emphasize on gaming.

Course Code	Course Name	Credits
CSCG202	Introduction to game design	3
CSCG301	Gaming and Simulations	3
CSCG302	2 D game development	3
CSCG401	3 D game development	3
CSCG463	Collaborative Game Development	3
	Total	**15**

CSCG Elective List

CSCG elective list constituting of courses that information and computer science program learner desiring to emphasize on accounting should **choose 3** from.

Course Code	Course Name	Credits
CSC355	Biometrics Fundamentals	3
CSC365	Artificial intelligence	3
CSC375	Introduction to modeling simulation	3
CSSC355	Security foundations	3
CSC455	Web-programing	3
CSC465	Computer vision	3
CSC475	Data communication and networks	