

Study Plan:
Bachelor of Science in Computer Science

FIRST YEAR (34 credit hours)			
Term	Course #	Course Title	Credit Hours
Fall	ENGL 202	English Language I Post Foundation	3
	MATH 101	Calculus I	3
	CHEM 101	General Chemistry I	3
	CHEM 103	Experimental General Chemistry I	1
	CMPS 151	Programming Concepts	3
	CMPS 152	Programming Concepts Laboratory	1
Total Credit Hours in Semester			14
Spring	ENGL 203	English Language II Post Foundation	3
	MATH 102	Calculus II	3
	PHYS 191	General Physics for Engineering I	3
	PHYS 192	Experimental General Physics for Engineering I	1
	CMPS 251	Object-Oriented Programming	3
	CMPS 252	Object-Oriented Programming Laboratory	1
	CMPS 205	Discrete Structures for Computing	3
Total Credit Hours in Semester			17

SECOND YEAR (33 credit hours)			
Term	Course #	Course Title	Credit Hours
Fall	CMPS 303	Data Structures	3
	CMPS 311	Object Oriented Modeling	3
	PHYS 193	General Physics for Engineering II	3
	PHYS 194	Experimental General Physics for Engineering II	1
	MATH 231	Linear Algebra	3
	ARAB 100	Arabic Language I	3
Total Credit Hours in Semester			16
Spring	CMPS 323	Design and Analysis of Algorithms	3
	CMPS 351	Fundamentals of Database Systems	3
	CMPS 352	Fundamentals of Database Systems Laboratory	1
	GENG 200	Probability and Statistics for Engineers	3
	CMPS 200	Computer Ethics	1
	CMPE 263	Computer Architecture and Organization	3
	ARAB 200	Arabic Language II	3
	Total Credit Hours in Semester		

THIRD YEAR (32 credit hours)			
Term	Course #	Course Title	Credit Hours
Fall	CMPE 455	Data Communication and Computer Networks I	3
	CMPE 456	Data Communication and Computer Networks I Laboratory	1
	GENG 300	Numerical Methods	3
	CMPS 405	Operating Systems	3
	CMPS 406	Operating Systems Laboratory	1
		Core Curriculum Elective *	3
		Core Curriculum Elective *	3
Total Credit Hours in Semester			17
Spring	CMPS 356	Software Development and Applications	3
	CMPS 411	Software Engineering	3
	DAWA 111	Islamic Culture	3
		Core Curriculum Elective *	3
		Major Elective I	3
Total Credit Hours in Semester			15

FOURTH YEAR (24 credit hours)			
Term	Course #	Course Title	Credit Hours
Fall	CMPS 493	Senior Project I	1
	CMPS 307	Introduction to Project Management and Entrepreneurship	2
		Major Elective II	3
		Major Elective III	3
		Core Curriculum Elective *	3
Total Credit Hours in Semester			12
Spring	CMPS 499	Senior Project II	3
	MAGT 101	Principles of Management	3
		Major Elective IV	3
		Major Elective V	3
Total Credit Hours in Semester			12

Student must complete:

- A minimum of 3 credit hours from Social/Behavioral Sciences package and,
- A minimum of 3 credit hours in any course listed in the CCP defined Qatar and Gulf History sub-package and,
- A minimum of 3 CH in any Course in the CCP defined Humanities/Fine arts package other than courses in the Qatar and Gulf History sub-package and,
- Minimum of 3 credit hours from Natural Science/ Mathematics package