



**Computer Science (CSCI)**

**Major Electives**

Code	Title	Credits	Prerequisites	Corequisites
	Elective	3		
	Elective	3		
Total		6		

**Core Requirements**

Code	Title	Credits	Prerequisites	Corequisites
CENG300	Fundamentals of Digital Logic Design	3	CSCI200 - EENG250	CENG300L
CENG300L	Fundamentals of Digital Logic Design Lab	1	EENG250	CENG300
CENG405	Microprocessor Architecture & Organization	3	CENG350	CENG405L
CENG405L	Microprocessor Architecture and Organization Lab	1	CENG300	CENG405
CSCI250	Introduction to Programming	3	CSCI200	CSCI250L
CSCI250L	Introduction to Programming Lab	1		CSCI250
CSCI300	Intermediate Programming with Objects	3	CSCI250	
CSCI315	Introduction to Networking	3	CSCI250 - CSCI325	
CSCI320	Software Engineering	3		
CSCI350	Data Structures	3	CSCI300	
CSCI385	Visual Programming	3		
MATH110	Pre-Calculus	3		
MATH120	Calculus I	3	MATH110	
MATH170	Calculus II	3	MATH120	
MATH220	Calculus III	3	MATH170	
MATH225	Linear Algebra with Applications	3	MATH170	
MATH260	Discrete Mathematics	3	MATH170 - CSCI200	
MATH310	Probability & Statistics for Scientists & Engineers	3	MATH170	
MATH375	Numerical Methods for Scientists & Engineers	3	CSCI250 - MATH225 - MATH270	
PHYS100	College Physics I	3	ELC103	
PHYS150	College Physics II	3	PHYS100	PHYS150L
Total		57		

**Major Requirements**

Code	Title	Credits	Prerequisites	Corequisites
CSCI360	Advanced & System Programming	3		
CSCI375	Algorithms	3	CSCI300	
CSCI395	Introduction to Database Systems	3		
CSCI410	Web Programming	3		
CSCI430	Introduction to Operating Systems	3	CSCI325	CENG405
CSCI450	Introduction to Theory of Computation	3	CSCI350	
CSCI460	Introduction to Computer Graphics	3	CSCI300 - MATH225	
CSCI470	Introduction to Artificial Intelligence	3	MATH310 - CSCI375	
CSIT400	Information System Development and Implementation	3	CSCI400 - CSCI365	
Total		27		

## General Education Requirements

Code	Title	Credits	Prerequisites	Corequisites
ARAB200	Arabic Language and Literature	3		
CSCI100E	Basic Computing Skills	3		
CSCI200	Introduction to Computers	3	CSCI100	
CULT200	Introduction to Arab - Islamic Civilization	3		
ENGL150	English Composition & Rhetoric	3		
ENGL200	Advanced English Composition & Rhetoric	3	ENGL150	
ENGL250	Technical writing	3	ENGL200	
ENGL350	English Communication Skills	3	ENGL200	
ENVR100	Global Environmental Issues	3	ELC103	
HUMN210	Human Rights - Global Perspective	3		
SSCI125	Basic Sociology	3	ELC103	
Total		33		

## General Education Electives

Code	Title	Credits	Prerequisites	Corequisites
	Elective	3		
	Elective	3		
Total		6		

## Major Elective Courses

Code	Title	Credits	Prerequisites	Corequisites
BACC210	Principles of Financial Accounting I	3	ELC103	
CSIT375	Geographic Information Systems	3	CSCI200	
CSIT380	Remote Sensing	3	CSCI200	
CSIT460	Application Development Using Database Technology	3	CSCI400	
CSIT475	Adv. System Administration	3	CSCI315 - CSCI430	
CSIT480	System and Network Security	3	CSCI315	