

## Bachelor of Science in Computer Science composite —Worksheet & Pre-Requisites —2014-15

Course #	Course title	CR	Offered	Pre-Requisites
<b>CSIS COMMON CORE</b>				
CSIS 1400	Fundamentals of Programming	3	F/S	MATH 1010 or ACT of 23
CSIS 1410	Object Oriented Programming	3	F/S	CSIS 1400
CSIS 2420	Intro to Algorithms and Data Structures	3	F	"C" grade in CSIS 1410
CSIS 2600	Data Communications & Networking	3	S	
CSIS 2810	Computer Organization and Architecture	3	S	EET 2780
CSIS 3100	Systems Analysis & Design	3	S	
CSIS 3200	Database Design and Management	3	F	CSIS 1000
CSIS 3600	Operating Systems	3	S	CSIS 2420
CSIS 3650	Network Security	3	F	CSIS 2600
EET 2750	PC Hardware	3	F/S	
EET 2780	Digital Electronics I	3	F	MATH 1050
MATH 1630	Discrete Mathematics	3	S	MATH 1050
<b>CS REQUIRED CORE</b>				
CSIS 2450	Software Engineering	3	F-odd	CSIS 2420
CSIS 3000	Advanced Algorithms and Data Structures	3	S	CSIS 2420 & MATH 1630
CSIS 3150	C and C++ Programming	3	F	CSIS 2420
CSIS 3550	Foundations of Computation Theory	3	S	CSIS 2420
CSIS 4550	Programming Languages	3	F	CSIS 3550
CSIS 4800	CS Capstone Project	3	S	CSIS 3000 & Sr. Standing
EET 3780	Applications of Microprocessors	3	S-even	EET 2780
MATH 1220	Calculus II	4	F/S	"C" in MATH 1210 or AP Calc
MATH 2270	Linear Algebra	3	F/S	MATH 1220
MATH 3700	Probability and Statistics	4	F	MATH 1220
*Approved Science	Second semester of BIOL, CHEM or PHYS	5		
<b>CS MAJOR ELECTIVES ( Choose 15 Hours)</b>				
CSIS 3400	Graphics Programming	3	F-even	CSIS 2420
CSIS 3500	Advanced Computer Architecture	3	F-odd	CSIS 2420 & CSIS 2810
CSIS 3700	Computer Forensics	3	F-even	CSIS 2600 or permission
CSIS 4300	Mobile Application Development	3	S-even	CSIS 3150
CSIS 4350	Web Programming	3	F-odd	CSIS 2420
CSIS 4540	Human-Computer Interface	3	S-odd	CSIS 1010 or CSIS 2000
CSIS 4700	Internet Forensics & Cyber Security	3	S-odd	CSIS 3700 or dept permission
EET 3790	Computer Interfacing	3	S-odd	EET 2780
<b>FOUNDATION COURSES</b>				
MATH 1050	College Algebra	4	F/S/M	"C" in MATH 1010 or Act of 23
MATH 1060	Trigonometry	3	F/S/M	"C" in MATH 1010 or Act of 23
UNIV 1010	EDGE Program Introduction	1	F/S/M	
UNIV 3924	EDGE Project Proposal	1	F/S/M	UNIV 1010
UNIV 4925 or UNIV 4930	EDGE Program Completion/Select Track Completion	1	F/S/M	UNIV 3925
<b>GENERAL EDUCATION</b>				
ENGL 1010	Intro to Academic Writing	3	F/S/M	
ENGL 2010	Intermediate Writing	3	F/S/M	ENGL 1010 or ACT of 29+
MATH 1210	Calculus I	4	F/S/M	C in MATH 1050 & MATH 1060
LM 1010	Information Literacy	1	F/S/M	
CSIS 1000	Intro to Computer Applications	3	F/S/M	
American Institution		3	F/S/M	
FINE ARTS:		3	Varies	
HUMANITIES		3	Varies	
<b>SOCIAL SCIENCE</b>	<b>CSIS 1010 E-Commerce in a Global Society</b>	3	F/S/M	
<b>LIFE SCIENCE</b>	<b>BIOL 1610/1615</b>	4	F/S	
<b>PHYSICAL SCIENCE</b>	<b>CHEM 1210/1215 or PHYS 2210/2215</b>	5	F/S	

*\*\*Science courses to complete 12 credit hours of science, which must include one of the sequences:  
BIOL 1610, 1615, 1620, 1625, or CHEM 1210, 1215, 1220, 1225 or PHYS 2210, 2215, 2220, 2225.\*\**

**The CSIS Department accepts transfer credits up to 10 years, due to the rapid change of the industry.**

**Anything beyond this will be considered on a case-by-case basis.**

**Computer Science majors must take an approved comprehensive examination in computer science during their senior year, passing with a score at least in the 25th percentile.**