FIU FLORIDA INTERNATIONAL UNIVERSITY

Undergraduate Major Map

Catalog Year 2012
College / School Engineering
Major Computer Science - BS
Track / Concentration Software Dsgn and Devel

Career Path Four Year Freshman

	Course Required	Description	Credit Hours	Critical Progress	Min GPA: 2.20
Fall 2012 Total Credits 15	CGS1920	Intro to Computing	1		
	ENC1101	Writing and Rhetoric I	3		
	MAC2147	Pre-Calculus Math	4	C	
	SLS1501	First Year Exper	1		
	(1)	Social Inquiry	3		
	(2)	List A (Science Elective)	3		

	Course Required	Description	Credit Hours	Critical Progress	Min GPA: 2.20
Spring 2013 Total Credits 14	ENC1102	Writing and Rhetoric II	3		
	MAC2311	Calculus I	4	C	
	(1)	Arts	3		
	(3)	List B (Life Science and lab)	4		

	Course Required	Description	Credit Hours	Critical Progress	(4) Use this Semester to catch up on coursework if necessary.
Summer 2013 Total Credits 0			0		

	Course Required	Description	Credit Hours	Critical Progress	Min GPA: 2.20
Fall 2013 **Total Credits 14**	COP2210	Programming I	4	B-	
	MAC2312	Calculus II	4	C	
	(1)	Humanities w/ Writing - Historical	3		
	(1)	Foundations of Social Inquiry	3		

	Course Required	Description	Credit Hours	Critical Progress	Min GPA: 2.20
Spring 2014 **Total Credits 17**	COP3337	Programming II	3	B-	
	MAD2104	Discrete Mathematics	3	C	
	PHY2048	Physics W/Calculus I	4		
	PHY2048L	General Phys Lab I	1		
	(1)	Humanities w/ Writing	3		
		General Electives	3		

	Course Required	Description	Credit Hours	Critical Progress	(4) Use this Semester to catch up on coursework if necessary.
Summer 2014 **Total Credits 0**			0		

	Course Required	Description	Credit Hours	Critical Progress	Min GPA: 2.20
Fall 2014 **Total Credits 14**	COM3110	Bus And Prof Commun	3		
	COP3530	Data Structures	3	C	
	ENC3213	Prof and Tech Writing	3	B-	
	PHY2049	Physics W/Calc II	4		
	PHY2049L	General Phys Lab II	1		

	Course Required	Description	Credit Hours	Critical Progress	Min GPA: 2.20
Spring 2015 **Total Credits 13**	CGS3092	Ethics/Soc In Cs	1	C	
	COT3420	Logic For Comp Sci	3		
	STA3033	Prob & Stat For Cs	3		
	CDA3103	Fund Computer System	3		
	COP4710	Database Management	3		

	Course Required	Description	Credit Hours	Critical Progress	Min GPA: 2.20
Summer 2015 **Total Credits 3**	CEN4010	Software Eng I	3	C	

	Course Required	Description	Credit Hours	Critical Progress	Min GPA: 2.20
Fall 2015 **Total Credits 15**	CDA4101	Structure Comp Org	3		
	COP4338	Programming III	3		
	MAD3512	Theory Algorithms	3		
	(5)	List C (CS Elective)	3		
	(6)	List D (Software Engineering Course)	3		

	Course Required	Description	Credit Hours	Critical Progress	Min GPA: 2.00
Spring 2016 **Total Credits 15**	CIS4911	Senior Project	3		
	COP4555	Prin Of Prog Lang	3		
	COP4610	Operating Syst Princ	3		
	(6)	List D (Software Engineering Course)	3		
		General Electives	3		

General University Requirements

For students who are deficient in a foreign language, the general electives should include a two-semester sequence in one foreign language.

(1) Refer to http://undergrad.fiu.edu/advising/uccform.html for a list of acceptable courses to satisfy these requirements.

(2) List A: CS Science Electives: Choose from AST 2003, GLY 4450, AST 2004, MCB 2000, BOT 1010, OCB 2003, BSC 1010, OCE 3014, BSC 1011, PCB 2061, CHM 1045, PHY 3123, CHM 1046, PHY 3124, GLY 1010, PHY 3513, GLY 1100, PHY 4323, GLY 3754, PHY 4324, GLY 4400

(3) List B: UCC Life Science classes that are also acceptable as CS Science electives: Choose from: BSC 1010, BOT 1010, MCB 2000, OCB 2003 and corresponding lab

(4) Students are required to earn at least nine credit hours prior to graduation by attending one or more summer semesters at FIU or any other University in the Florida State system.

(5) List C: CS Electives: Choose one from (CAP 4770 , COP 4604 , CEN 4021, COP 4226 , CEN 4072 , COP 4520)

(6) List D: Software Engineering Courses (CEN4072, CEN4012). Each course is offered once a year, select the one that is offered for the current semester.