

MAJOR: BS--Computer Science: Mathematics Option

I. TOTAL UNIVERSITY ORIENTATION

II. TOTAL LIBERAL STUDIES

III. MAJOR

Credit	Grade	Semester
1		
39		

A. Core Requirements

COS	107	Problem Solving and Design	3		
COS	108	Principles of Computer Science I	4		
COS	109	Principles of Computer Science II	4		
COS	200	Computer Information Systems	3		
COS	281	Intro to Information Security & Assurance	3		
COS	300	Systems Design and Development	3		
COS	301	Computer Organization	4		
COS	302	Operating Systems	3		
COS	310	Discrete Computing Structures	3		
COS	340	Data Structures and Algorithm Analysis	3		
COS	410	Database Management Systems	3		
COS	470	Networking and Telecommunications	3		

TOTAL CORE =

39

B. Concentration/Specialization

MAT	120	Precalculus	4		
MAT	131	Calculus and Analytic Geometry I	5		
MAT	132	Calculus and Analytic Geometry I	5		
MAT	321	Probability and Statistics I	3		
		Additional Natural Science*	3		
		Additional Natural Science*	3		

TOTAL CONCENTRATION =

23

C. Supporting Electives

COS	303	Human Perspective on Computer	3		
ENG	216	Technical Writing	3		

TOTAL SUPPORTING ELECTIVES =

6

TOTAL MAJOR =

68

IV. Free Electives (minimum 3 hours)

Note: A total of 42 semester credit hours at the 300/400 level (including major hours) are required for graduation

300-400 Level Electives

		COS/Mat Elective	3		
		COS/Mat Elective	3		
		Elective			
		Elective			
		Elective			
		Elective			

TOTAL 300-400 LEVEL ELECTIVES =

6

Other Free Electives

		Elective	3		
		Elective	3		
		Elective			

TOTAL OTHER ELECTIVES =

6

TOTAL FREE ELECTIVES =

12

TOTAL DEGREE PROGRAM =

120	Must be 120 or more
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Note: Courses beginning with a zero (0XX-Developmental courses) do not count toward graduation

* Select one from BIO 210, BIO 212, PHS 211, PHS 212, CHE (?)