

**Requirements for the Major in Mathematics-Computer Science, B.S. w/Teaching Option
(Pending APC Approval-2007)**

Mathematics Courses

Course	Name	Cr Hrs	Pre Req	Pre or Co Req	Available	Other
MATH-11000	Calculus I	4	Math placement 1		F-S, Y	2b
MATH-11200	Calculus II	4	MATH-11100		F-S, Y	2b
MATH-18500	Experimentation	3	Math placement 1	MATH-11100	S, Y	
MATH-21600	Introduction to Mathematical Statistics	3	MATH-11200		F, Y	NS LA
MATH-23100	Linear Algebra	3	MATH-11200		F, Y	
MATH-27000	Mathematical Reasoning w/Discrete	3	MATH-23100	MATH-18500	S, Y	
MATH-29100	Sophomore Seminar	1	MATH-11200 & MATH-23100 <i>or</i> MATH-27	MATH-27000	S, Y	
MATH-36200	Modern Geometry	4	MATH-27000		F, Y	
*	Math Electives (See below)	3 - 4				

Total 28 - 29

Select one 3 or 4 credit math elective at level 3 or 4 from or MATH-21100

Computer Science Courses

Course	Name	Cr Hrs	Pre Req	Pre or Co Req	Available	Other
COMP-17100	Principles of Computing Science	4			F-S, Y	2b
COMP-21000	Introduction to Computer Organization and Systems	4	COMP-22000 <i>or</i> COMP-22500		S, Y	
COMP-22000	Introduction to Data Structures	4	COMP-17100	COMP-11500 <i>or</i> MATH-11100	S, Y	
COMP-31100	Algorithms and Data Structures	4	COMP-22000 & COMP-11500		F, Y	
Take either:						
COMP-47500 <i>or</i>	Senior Project	3	senior standing		F-S, Y	
MATH-39810	Research Experience		MATH-39700		S, Y	
*	Computer Science Electives (See below)	10 - 12				

Total 29 - 31

***Three additional computer science electives at level 2 or above (excluding COMP-20100 and COMP-20500), at least one of which must be level 3 or higher**

Total credits in the major 60 - 64

**Requirements for the Major in Mathematics-Computer Science, B.S. w/Teaching Option
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Course	Name	Cr Hrs	Pre Req	Pre or Co Req	Available	Other
				Field Experience component from the H & S teaching option program		
COMP-20100	Tech for the Middle/Secondary School Teacher	2			F-S, Y	
EDUC-10100	Literacy Education for Middle/Secondary School Teacher	2			S, Y	
SLPA-22900	Second Language Acquisition: It's nature & meaning	2	sophomore standing		F-S, Y	
SPLA-23900	Educating Children with Special Needs	2	sophomore standing		F-S, Y	
PSYC-21010	Educational Psychology	3	sophomore standing		F-S, Y	
EDUC-34000	Social and Cultural Foundations of Education	3	3 social science or humanities courses		F-S, Y	
EDUC-30810	Pedagogy and Practice across the Disciplines	3	EDUC-21910 EDUC-34000 PSYC-21010	EDUC-30510 & junior	F-S, Y	
EDUC-30510	Pedagogy and Practice for the Mathematics Teacher	3	EDUC-21910 EDUC-34000 PSYC-21010	EDUC-30810 & junior	F-S, Y	
EDUC-41210	Seminar in Reflective Practice	3		EDUC-49810	F-S, Y	
EDUC-49810	Professional Semester in Education	12		EDUC-41210	F-S, Y	
EDUC-11000	Child Abuse Identification and Prevention	0			F-S, Y	
EDUC-11100	Drug and Alcohol Abuse: Identification and Prevention	0			F-S, Y	

Total 38

Electives 21-22

Total Mathematics-Computer Science, B.S. w/Teaching Option	120
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