Requirements for the Major in Mathematics-Computer Science - B.S.

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	Intro 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 ***or*** MATH-27000	MATH-27000	S, Y	

Total 21

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 ***or*** COMP-22500		S, Y	
COMP-22000	Introduction to Data Structures	4	COMP-17100	COMP-11500 or MATH-11100	S, Y	
COMP-31100	Algorithms and Data Structures	4	COMP-11500 & COMP-22000		F, Y	
Take either:						
COMP-47500 ***or***	Senior Project	3	senior standing		F-S, Y	
MATH-39810	Research Experience		MATH-39700		S, Y	
*	Math Electives (See below)	6 - 8				
*	Computer Science Electives (See below)	10 - 12				

Total 35 - 39

2 additional 3 or 4 credit mathematics electives chosen from MATH-21100 or mathematics courses at level 3 or above

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

Open Electives 60-64

Total B.S. in Mathematics-Computer Science 120