



Sample Program Plan

Mathematics Degree with Applied Math concentration

Typical Mathematics Program

Beginning with Calculus

Fall 2008

<i>Freshman Year</i>					
Fall		Winter		Spring	
MATH 251 Calculus I	4	MATH 252 Calculus II	4	MATH 253 Calculus III	4
CS 161 Foundations of CS I	4	CS 162 Foundations of CS II	4	General Education / Electives	11-14
General Education / Electives	4-7	General Education / Electives	7-10		
Total Credits	12-15	Total Credits	15-18	Total Credits	15-18
<i>Sophomore Year</i>					
Fall		Winter		Spring	
STAT 243 Elementary Statistics	4	STAT 352 Statistics	4	MATH 382 Structures of Abstract Mathematics	4
MATH 341 Linear Algebra	4	General Education / Electives	11-14	General Education / Electives	11-14
General Education / Electives	7-10				
Total Credits	15-18	Total Credits	15-18	Total Credits	15-18
<i>Junior Year</i>					
Fall		Winter		Spring	
MATH 323 Mathematical Modeling OR MATH 361 Probability and Statistics (whichever is offered)	4	MATH 254 Calculus IV OR MATH 483 PDEs and Engineering Mathematics (whichever is offered)	4	MATH 452 Operations Research OR MATH 462 Regression Analysis (whichever is offered)	4
Math 321 Differential Equations	4	General Education / Electives	11-14	General Education / Electives	11-14
General Education / Electives	4-7				
Total Credits	12-15	Total Credits	15-18	Total Credits	15-18
<i>Senior Year</i>					
Fall		Winter		Spring	
MATH 311 Advanced Calculus OR MATH 344 Modern Algebra I (whichever is offered)	4	MATH 412 Real Analysis OR MATH 445 Modern Algebra II (whichever is offered)	4	MATH 344 Modern Algebra I OR MATH 311 Advanced Calculus (whichever is offered)	4
MATH 361 Probability and Statistics OR MATH 323 Mathematical Modeling (whichever is offered)	4	MATH 483 PDEs and Engineering Mathematics OR MATH 254 Calculus IV (whichever is offered)	4	MATH 462 Regression Analysis OR MATH 452 Operations Research (whichever is offered)	4
MATH 407 Capstone Seminar	1	MATH 407 Capstone Seminar	1	MATH 407 Capstone Seminar	2
General Education / Electives	3-6	General Education / Electives	3-6	General Education / Electives	2-5
Total Credits	12-15	Total Credits	12-15	Total Credits	12-15