



**Sample Program Plan**  
**Mathematics Degree with Mathematical Studies concentration**  
*Typical Mathematics Program*  
*Beginning with College Algebra*

Spring 2008

<b><i>Freshman Year</i></b>					
Fall		Winter		Spring	
MATH 111 College Algebra	4	MATH 112 Precalculus	4	MATH 251 Calculus I	4
General Education / Electives	8-11	CS 161 Foundations of CS I	4	General Education / Electives	11-14
		General Education / Electives	7-11		
Total Credits	12-15	Total Credits	15-18	Total Credits	15-18
<b><i>Sophomore Year</i></b>					
Fall		Winter		Spring	
STAT 243 Elementary Statistics	4	MATH 252 Calculus II	4	MATH 253 Calculus III	4
General Education / Electives	11-14	General Education / Electives	11-14	General Education / Electives	11-14
Total Credits	15-18	Total Credits	15-18	Total Credits	15-18
<b><i>Junior Year</i></b>					
Fall		Winter		Spring	
MATH 341 Linear Algebra	4	MATH 254 Calculus IV (if available)	4	MATH 382 Structures of Abstract Mathematics	4
		OR			
		MATH Elective *			
MATH 323 Mathematical Modeling (if available)	4	MATH 338 Modern Geometry	4	MATH Elective *	4
OR		OR			
MATH Elective *		MATH 355 Advanced Discrete (whichever is offered)			
General Education / Electives	5-8	General Education / Electives	7-10	General Education / Electives	5-8
Total Credits	13-16	Total Credits	15-18	Total Credits	13-16
<b><i>Senior Year</i></b>					
Fall		Winter		Spring	
MATH 311 Advanced Calculus	4	MATH 412 Real Analysis	4	MATH 344 Modern Algebra I	4
OR		OR		OR	
MATH 344 Modern Algebra I (whichever is offered)		MATH 445 Modern Algebra II (whichever is offered)		MATH 311 Advanced Calculus (whichever is offered)	
MATH 407 Capstone Seminar	1	MATH 254 Calculus IV (if available)	4	MATH 407 Capstone Seminar	2
		OR			
		MATH Elective *			
MATH 323 Mathematical Modeling (if available)	4	MATH 355 Advanced Discrete	4	MATH Elective *	4
OR		OR			
MATH Elective *		MATH 338 Modern Geometry (whichever is offered)			
General Education / Electives	4-8	MATH 407 Capstone Seminar	1	General Education / Electives	4-8
		General Education / Electives	0-4		
Total Credits	13-17	Total Credits	13-17	Total Credits	14-18

- Math electives must include at least 8 credit hours of upper division mathematics courses. Stat 352 counts as a mathematics course for this purpose.