Sample Graduation Plan - MATHEMATICS & STATISTICS MAJOR   Total Credit Hours: **121** **

Track of Study - **APPLIED MATHEMATICS**

Fall - Year 1 (15 hours)	Pre-Req	Cr Hr
MA 125 - Calculus I	C or better in MA 113 or MA 115 or sufficient MMT score*	4
Fine & Perf Arts (Bulletin)		3
EH 101 - Composition I		3
CAS 100 - First Year Experience		2
Hum & Fin Arts		3
	TOTAL HOURS:	15

Spring - Year 1 (16 hours)	Pre-Req	Cr Hr
MA 126 - Calculus II	C or better in MA 125	4
MA 320 - Foundations of Mathematics	C or better in EH 102 or EH 104 and MA 125	3
EH 102 - Composition II		3
CA 110 - Public Speaking		3
Hum & Fin Arts		3
	TOTAL HOURS:	16

Fall - Year 2 (16 hours)	Pre-Req	Cr Hr
MA 227 - Calculus III	C or better in MA 126	4
ST 315 - Applied Probability and Statistics	HS level algebra is recommended	3
Natural Science (Class 1 of 2 - see catalogue)		3
Natural Science Lab (see catalogue)		1
Lit Comp		3
Elective (minor field)		3
	TOTAL HOURS:	17

Spring - Year 2 (16 hours)	Pre-Req	Cr Hr
MA 237 - Linear Algebra I	C or better in MA 126	3
MA 238 - Applied Differential Equations I	Should have taken or currently taking MA 227	3
Natural Science (Class 2 of 2 - see catalogue)		3
Natural Science Lab (see catalogue)		1
Elective (minor field)		3
Elective (minor field)		3
	TOTAL HOURS:	16

Fall - Year 3 (15 hours)	Pre-Req	Cr Hr
MA 334 - Advanced Calc I	C or better in MA 227 and MA 237; taken MA 320 or consent of instructor	3
ST 335 - Applied Regression Analysis	ST 210 or ST 315 or ST 320	3
Foreign Language (Class 1 of 2)		3
HY 101 - History of Western Civilization I		3
Elective (minor field)		3
	TOTAL HOURS:	15

Spring - Year 3 (15 hours)	Pre-Req	Cr Hr
MA 354 - Computer Assisted Mathematical Modeling	C or better in MA 334	3
ST 340 - Design and Analysis of Experiments		3
Foreign Language (Class 2 of 2)		3
HY 102 - History of Western Civilization II		3
Elective		3
	TOTAL HOURS:	15

Fall - Year 4 (15 hours)	Pre-Req	Cr Hr
MA 332 - Differential Equations II	C or better in MA 126	3
MA 311 - Introduction to Number Theory		3
Hist, Soc, Beh (Bulletin)		3
Elective (minor field)		3
Elective (minor field)		3
	TOTAL HOURS:	15

Spring - Year 4 (15 hours)	Pre-Req	Cr Hr
MA 436 - Numerical Analysis		3
MA 481 - Cryptography		3
Hist, Soc, Beh (Bulletin)		3
Elective (minor field)		3
	TOTAL HOURS:	12

The General 4-Year Graduation Plan is designed as a guide for students preparing for their course selections. This information provides only a suggested schedule. Actual course selections should be made with the advice of a faculty adviser. For detailed information and course descriptions consult the University of South Alabama catalog.

Undergraduate students need 47 hours in Gen Ed and 44 hours in Mathematics/Statistics courses. See bulletin for required courses.

All College of Arts and Sciences (CAS) students must take CAS 100 their first semester. See bulletin for details.

* - MMT = MyMathTest (this is the Math Placement Test the university uses)

** - See breakdown of credit hours on Gen Ed and Math Req Tab

Elective courses	21 Hours
Math course	45 Hours

Required Introductory and Intermediate Course for All Math Students

Required Course for APPLIED MATHEMATICS track of study

Required elective (may Substitute MA 367 Combinatorial Enumeration, MA 437 Complex Variables, MA 458 Operations Research or MA 590 Special Topics)

MA 320 is highly recommended for all Math Majors