Actuarial Curriculum Map
(Effective Fall 2006 and after)

The curriculum map provides insight and direction for students to graduate in four years. With the assistance of a student's academic advisor and department chairperson, the map will provide a guide between what should be taken term by term and where the student is with respect to grades received in courses. Milestones are noted on the map and serve as hints regarding what courses and/or activities must be completed that term. Please note that every term does not have a milestone. Prerequisites are also noted providing the student and his/her advisor a true indication of where the student falls within the curriculum. In this particular document, key prerequisites are listed that can prevent a student from moving along in the curriculum if not met. Also, note that the Department of Mathematics only considers the grade of "*C*" or higher as meeting the prerequisite. A grade of "*C*" or better is required in each course in mathematics taken for credit for a major or a minor in mathematics.

Students completing any of the mathematics programs will be prepared for employment in the government sector, private industry, or graduate studies in mathematics. Mathematicians not only teach but also work with such fields as astronomy and space exploration, climate study, medicine, national security, robotics, animated films, and business. Students in this major must be comfortable with analyzing information, thinking critically, and be extremely motivated.

Mathematical Sciences Curriculum Guide		Milestone and/or Prerequisite
Term 1	**Credits**	**Term 1 Milestones and/or Prerequisites**
ENC 1101 Freshman Communication Skills I	3	Must have completed (MAC 1105 and MAC 1114) or MAC 1147
MAC 2311 Calculus I	4	Must complete MAC 2311
AMH 2091 African American History	3	
BSC 1010, 1010L General Biology I with Lab	4	
SLS 1101 First Year Experience College Transition	2	
Total Term 1 Credits	16	
Term 2	**Credits**	**Term 2 Milestones and/or Prerequisites**
ENC 1105 Freshman Communications Skills II	3	Must completed MAC 2312
STA 2023 Intro to probability & Stats	3	
MAC 2312 Calculus II	4	
MAN 2543 Intro to Business Systems	3	
BSC 1011, 1011L General Biology II with Lab	4	
Total Term 2 Credits	17	
Term 3	**Credits**	**Term 3 Milestones and/or Prerequisites**
MAC 2313 Calculus III	5	Must complete MAC 2313
STA 3034 Mathematical Statistics *(fall only)*	3	
MAT 4906 Pro-Seminar	3	
GEB 1091/ECO 3921 Professional Dev I	2	
Humanity Elective	3	
Total Term 3 Credits	16	
Term 4	**Credits**	**Term 4 Milestones and/or Prerequisites**
MAS 3105 Linear Algebra	3	(no milestones)
COT 3100 Discrete Mathematics	3	
Elective	5	
Social Science Elective	3	
Total Term 4 Credits	14	

Term 5	Credits	Term 5 Milestones and/or Prerequisites
SPC 2600 Public Speaking	3	Must complete ECO 2013
ECO 2013 Principles of Economics I	3	
AGG 2021 Financial Accounting	3	Prepare for Exam P/1
MAP 2302 Differential Equations	3	
Approve Actuarial Sciences Elective	3	
Total Term 5 Credits	15	
Term 6	**Credits**	**Term 6 Milestones and/or Prerequisites**
ACG 2301 Managerial Accounting	3	Pass Exam P/1
ECO 2023 Principles of Economics II	3	
FIN 3403 Corporate Finance	3	
COP 2221 Programming in C language	3	
Approved Actuarial Sciences Elective	3	
Total Term 6 Credits	15	
Term 7	**Credits**	**Term 7 Milestones and/or Prerequisites**
MAA 4211 Advanced Calculus I *(fall only)*	3	Prepare for Exam FM
MAD 3401 Numerical Analysis *(fall only)*	3	
MAN 3025 Principles in Management	3	
RMI 3011 Risk Management	3	
Total Term 7 Credits	12	
Term 8	**Credits**	**Term 8 Milestones and/or Prerequisites**
MAP 4103 Mathematical Modeling *(spring only)*	3	Apply for graduation in the 1st 2 weeks
MAR Principles of Marketing	3	Must submit department portfolio
Approved Actuarial Sciences Elective	9	Must complete department exit survey
Total Term 8 Credits	15	Pass Exam FM
TOTAL SEMESTER HOURS	**120**	