

# ACADEMIC MAP

## General Mathematics Studies Track, Bachelor of Science



### First Year

Fall		Hours
UNIV 1101	University Seminar I	1
ENGL 1301	Writing and Rhetoric I	3
MATH 2413	Calculus I	4
POLS 2305	U.S. Government and Politics	3
American History Core Requirement		3

**Hours 14**

### Spring

UNIV 1102	University Seminar II	1
ENGL 1302	Writing and Rhetoric II	3
	or COMM 1311 or Foundation of Communication	
MATH 2414	Calculus II	4
POLS 2306	State and Local Government	3
American History Core Requirement		3
Minor Course		3

**Hours 17**

### Second Year

Fall		Hours
COSC 1330	Programming for Scientists, Engineers, and Mathematicians	3
MATH 2415	Calculus III	4
PHYS 2425	University Physics I	4
MATH 3313	Foundations of Number Theory	3
MATH Upper Elective		3

**Hours 17**

### Spring

PHYS 2426	University Physics II	4
MATH 3315	Differential Equations	3
MATH 3314	Foundations of Real Numbers	3
Minor Course		3
Creative Arts Core Requirement		3

**Hours 16**

### Third Year

Fall		Hours
MATH 3311	Linear Algebra	3
MATH 4301	Introduction to Analysis	3
MATH Upper Elective		3
Minor Course		3
Elective (to meet 120 hrs)		3

**Hours 15**

### Spring

MATH 4306	Modern Algebra	3
MATH Upper Elective		3
Minor Course		3
Social and Behavioral Sciences Core Requirement		3
Elective (to meet 120 hrs)		3

**Hours 15**

### Fourth Year

Fall		Hours
MATH 4185	Senior Mathematics Seminar	1
COSC 3385	Numerical Methods	3
MATH Upper Elective		3
Minor Course		3
Language, Philosophy & Culture Core Requirement		3

**Hours 13**

### Spring

MATH 4285	Mathematics Major Capstone	2
MATH Upper Elective		3
MATH Upper Elective		3
Minor Course		3
Elective (to meet 120 hrs)		3

**Hours 14**

**Total Hours 121**



# CAREER MAP

## General Mathematics Studies Track - Mathematics *Bachelor of Science*



The General Mathematical Studies program prepares students for further studies in mathematics and employment. The mathematics program provides its majors and graduate students with preparation for careers in education, science, and commerce, as well as providing a solid foundation for further study in mathematics. In support of the graduate program, the mathematics faculty pursues scholarship in mathematics, applications of mathematics, and instruction in mathematics. Finally, the mathematics program serves the community by providing its expertise to local schools, industry, and businesses.

### CONTACT INFORMATION

**Career Counselor:**

Career and Professional Development Center  
UC 304 | 361.825.2628  
career.center@tamucc.edu

**Internship Coordinator:**

Alexey Sadovski  
CI 338 | 361.825.2477  
alexey.sadovski@tamucc.edu

**Department Contact:**

Department of Mathematics & Statistics  
CI 301 | 361.825.3928  
math@tamucc.edu

### SKILLS/ATTRIBUTES

- Critical Thinking/Problem Solving
- Teamwork/Collaboration
- Professionalism/Work Ethic
- Oral / Written Communication
- Leadership
- Digital Technology
- Career Management
- Global/Multicultural Fluency
- Analytical
- Logical Thinking
- Math

### STUDENT ORGANIZATIONS

- Math Club
- Student Council of Math and Science Teachers

### ADDITIONAL SOURCES OF INFORMATION

1. American Mathematical Society
2. Mathematical Association of America
3. National Council for Teachers in Mathematics
4. Society for Industrial and Applied Mathematics

### CAREER OPTIONS

- Actuary
- Data Analyst
- Database Administrator
- Logistician
- Accountant
- Statistician
- Financial Analyst
- Mathematical Modeling Specialist
- Bookkeeper
- Math Teacher
- Computer Systems Analyst