

ACADEMIC MAP

General Mathematics Studies Track Mathematics, Bachelor of Science



First Year			Third Year		
Fall			Fall		
UNIV 1101	University Seminar I	1	MATH 3311	Linear Algebra	3
ENGL 1301	Writing and Rhetoric I	3	MATH 4301	Introduction to Analysis	3
MATH 2413	Calculus I	4	MATH Upper Elective		3
POLS 2305	U.S. Government and Politics	3	Minor Course		3
American History Core Requirement		3	Elective (to meet 120 hrs)		3
Hours		14	Hours		15
Spring			Spring		
UNIV 1102	University Seminar II	1	MATH 4306	Modern Algebra	3
ENGL 1302	Writing and Rhetoric II	3	MATH Upper Elective		3
or COMM 1311	or Foundation of Communication		Minor Course		3
MATH 2414	Calculus II	4	Social and Behavioral Sciences Core Requirement		3
POLS 2306	State and Local Government	3	Elective (to meet 120 hrs)		3
American History Core Requirement		3	Hours		15
Minor Course		3			
Hours		17			
Second Year			Fourth Year		
Fall			Fall		
COSC 1330	Programming for Scientists, Engineers, and Mathematicians	3	MATH 4185	Senior Mathematics Seminar	1
MATH 2415	Calculus III	4	COSC 3385	Numerical Methods	3
PHYS 2425	University Physics I	4	MATH Upper Elective		3
MATH 3313	Foundations of Number Theory	3	Minor Course		3
MATH Upper Elective		3	Language, Philosophy & Culture Core Requirement		3
Hours		17	Hours		13
Spring			Spring		
PHYS 2426	University Physics II	4	MATH 4285	Mathematics Major Capstone	2
MATH 3315	Differential Equations	3	MATH Upper Elective		3
MATH 3314	Foundations of Real Numbers	3	MATH Upper Elective		3
Minor Course		3	Minor Course		3
Creative Arts Core Requirement		3	Elective (to meet 120 hrs)		3
Hours		16	Hours		14
			Total Hours		121



CAREER MAP

MATHEMATICS- GENERAL MATHEMATICS STUDIES TRACK

Bachelor of Science



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. There are three tracks for the degree: Secondary Mathematics Teaching, leading to teacher certification; Applied/Industrial Mathematics, preparing students for employment; and General Mathematical Studies, preparing students for further studies in mathematics.

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

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

STUDENT ORGANIZATIONS

- Math Club
- Student Council of Math and Science Teachers

CAREER OPTIONS

• Bookkeeper	• Mathematician
• Database Administrator	• Math Teacher
• Logistician	• Accountant
• Actuary	• Computer Systems Analyst

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