

ACADEMIC MAP

Mathematics

BS - Grades 7-12 Mathematics Education Concentration Teaching Certificate



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 3312	College Geometry	3
MATH 2413	Calculus I	4	Math Upper Elective		3
POLS 2305	U.S. Government and Politics	3	READ 3353	Content Area Reading for Secondary Students	3
American History Core Requirement		3	Elective (to meet 120 hrs)		3
Hours		14	Hours		15
Spring			Spring		
UNIV 1102	University Seminar II	1	SMTE 4370	Mathematics Education Topics I	3
ENGL 1302	Writing and Rhetoric II	3	MATH 3342	Applied Probability and Statistics	3
or COMM 1311	or Foundation of Communication		EDUC 3311	School and Society	3
MATH 2414	Calculus II	4	Math Upper Elective		3
American History Core Requirement		3	Social and Behavioral Sciences Core Requirement		3
POLS 2306	State and Local Government	3	Hours		15
Hours		14	Hours		15
Second Year			Fourth Year		
Fall			Fall		
COSC 1330	Programming for Scientists, Engineers, and Mathematicians	3	EDUC 4605	Planning, Teaching, Assessment and Technology	6
MATH 2415	Calculus III	4	EDUC 4311	Classroom Management	3
PHYS 2425	University Physics I	4	Math Upper Elective		3
MATH 3313	Foundations of Number Theory	3	Math Upper Elective		3
Language, Philosophy & Culture Core Requirement		3	Elective (to meet 120 hrs)		3
Hours		17	Hours		18
Spring			Spring		
PHYS 2426	University Physics II	4	EDUC 4995	Clinical Teaching	9
MATH 3315	Differential Equations	3	EDUC 4321	Instructional Design for Special Populations	3
MATH 3314	Foundations of Real Numbers	3	Hours		12
PSYC 2301	General Psychology	3	Hours		12
Creative Arts Core Requirement		3	Total Hours		121
Hours		16	Total Hours		121



CAREER MAP

MATHEMATICS-GRADES 7-12 MATHEMATICS EDUCATION CONCENTRATION

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
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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