

ACADEMIC MAP

ELEMENTARY EDUCATION - GRADES 4-8 WITH MATHEMATICS CERTIFICATION

Bachelor of Science



START HERE

1

SEMESTER 1 - FALL	CREDITS	COMPLETED
UNIV 1101 UNIVERSITY SEMINAR I	1	✓
ENGL 1301 OR ENGL 1302 WRITING AND RHETORIC I OR WRITING AND RHETORIC II	3	
BIOL 1406 BIOLOGY I	4	
ARTS 1301 ART AND SOCIETY	3	
PSYC 2301 GENERAL PSYCHOLOGY	3	

TOTAL CREDITS: 17

2

SEMESTER 2 - SPRING	CREDITS	COMPLETED
UNIV 1102 UNIVERSITY SEMINAR II	1	
COMM 1311 FOUNDATION OF COMMUNICATION	3	
MATH 1316 OR MATH 2312 TRIGONOMETRY OR PRECALCULUS	3	
HIST 1301 OR HIST 1302 U.S. HISTORY TO 1865 OR U.S. HISTORY SINCE 1865	3	
CHEM 1411 GENERAL CHEMISTRY I	4	
SMTE 1351 FUNDAMENTALS OF MATHEMATICS II	3	

TOTAL CREDITS: 17

3

SEMESTER 3 - FALL	CREDITS	COMPLETED
UNIVERSITY CORE CURRICULUM	3	
HIST 2301 OR HIST 1301 OR HIST 1302 TEXAS HISTORY OR U.S. HISTORY TO 1865 OR U.S. HISTORY SINCE 1865	3	
ENGL 2316 OR ENGL 2332 OR ENGL 2333 LITERATURE AND CULTURE OR LITERATURE OF THE WESTERN WORLD: FROM THE CLASSICS TO THE RENAISSANCE OR LITERATURE OF THE WESTERN WORLD: FROM THE ENLIGHTENMENT TO THE PRESENT	3	
POLS 2305 U.S. GOVERNMENT AND POLITICS	3	
MATH 1442 STATISTICS FOR LIFE	4	

TOTAL CREDITS: 16

4

SEMESTER 4 - SPRING	CREDITS	COMPLETED
UNIVERSITY CORE CURRICULUM	3	
POLS 2306 STATE AND LOCAL GOVERNMENT	3	
READ 3320 PRINCIPLES AND PRACTICES OF READING INSTRUCTION	3	
MATH 2305 DISCRETE MATHEMATICS I	3	
MATH 2413 CALCULUS I	4	

TOTAL CREDITS: 16

5

SEMESTER 5 - FALL	CREDITS	COMPLETED
MATH 3312 COLLEGE GEOMETRY	3	
BIEM 4357 METHODS OF TEACHING ENGLISH AS A SECOND LANGUAGE	3	
EDUC 3311 SCHOOL AND SOCIETY	3	
SPED 4310 STUDENTS WITH EXCEPTIONALITIES	3	
SMTE 3315 FOUNDATIONAL APPROACHES TO THE PHYSICAL SCIENCES	3	

TOTAL CREDITS: 15

6

SEMESTER 6 - SPRING	CREDITS	COMPLETED
SMTE 4382 BASIC MATHEMATICS FROM AN ADVANCED VIEWPOINT	3	
EDCI 3350 INVESTIGATING STUDENT LEARNING IN MIDDLE LEVEL MATHEMATICS (3)	3	
READ 3352 CONTENT AREA READING FOR ELEMENTARY STUDENTS	3	
SMTE 3316 FOUNDATIONAL APPROACHES TO THE LIFE SCIENCES	3	
EDCI 4301 OR SMTE 3352 STEM MATHEMATICS OR FUNDAMENTALS OF MATHEMATICS III	3	

TOTAL CREDITS: 15

7

SEMESTER 7 - FALL	CREDITS	COMPLETED
EDUC 4311 CLASSROOM MANAGEMENT	3	
EDUC 4605 PLANNING, TEACHING, ASSESSMENT AND TECHNOLOGY	6	
EDCI 4350 ASSESSMENT IN MIDDLE LEVEL MATHEMATICS	3	
IDET 3100 EDUCATIONAL TECHNOLOGY FOR PRESERVICE TEACHERS IN SCHOOLS	1	

TOTAL CREDITS: 13

8

SEMESTER 8 - SPRING	CREDITS	COMPLETED
EDUC 4321 INSTRUCTIONAL DESIGN FOR SPECIAL POPULATIONS	3	
EDUC 4995 CLINICAL TEACHING	9	

TOTAL CREDITS: 12

121 CREDITS | FINISHED!



This is not an official degree plan. It is a guideline for planning your courses. To access a copy of this academic map please visit tamucc.edu/academics/planning/academic-advising/

YEAR 1

YEAR 2

YEAR 3

YEAR 4

CAREER MAP

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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