

ACADEMIC MAP

4-8 Mathematics

Elementary Education, Bachelor of Science



FINISH IN



First Year			Third Year		
Fall			Fall		
UNIV 1101	University Seminar I	1	MATH 3312	College Geometry	3
ENGL 1301	Writing and Rhetoric I	3	EDCI 4301	STEM Mathematics	3
or ENGL 1302	or Writing and Rhetoric II		or SMTE 3352	or Fundamentals of Mathematics III	
BIOL 1406	Biology I	4	EDUC 3211	Culturally and Linguistically Responsive Teaching	2
EDUC 1354	Child Growth and Development	3	SPED 3310	Individual Differences in Schools and Communities	3
SMTE 1350	Fundamentals of Mathematics I	3	READ 3320	Principles and Practices of Reading Instruction	3
MATH 1316	Trigonometry	3	ELEM 4330	Teaching Mathematics in the Elementary School	3
or MATH 2312	or Precalculus				
Hours		17	Hours		17
Spring			Spring		
UNIV 1102	University Seminar II	1	SMTE 4382	Basic Mathematics From An Advanced Viewpoint	3
COMM 1311	Foundation of Communication	3	EDCI 3350	Investigating Student Learning in Middle Level Mathematics (3)	3
HIST 1301	U.S. History to 1865	3	READ 3352	Content Area Reading for Elementary Students	3
or HIST 1302	or U.S. History Since 1865		SMTE 3315	Foundational Approaches to the Physical Sciences	3
CHEM 1411	General Chemistry I	4	ECED 4345	EC-6 Assessment and Evaluation	3
SMTE 1351	Fundamentals of Mathematics II	3	Hours		15
MATH 2413	Calculus I	4	Fourth Year		
Hours		18	Fall		
Second Year			EDUC 4305	Seminar I	3
Fall			BIEM 4357	Methods of Teaching English as a Second Language	3
University Core Curriculum		3	EDCI 4350	Assessment in Middle Level Mathematics	3
HIST 2301	Texas History	3	IDET 3210	Design and Development of Technology-Integrated Learning Environments	2
or HIST 1301	or U.S. History to 1865		SMTE 3316	Foundational Approaches to the Life Sciences	3
or HIST 1302	or U.S. History Since 1865		Hours		14
ENGL 2316	Literature and Culture	3	Spring		
or ENGL 2332	or Literature of the Western World: From the Classics to the Renaissance		EDUC 4395	Seminar II	3
or ENGL 2333	or Literature of the Western World: From the Enlightenment to the Present		EDUC 4694	Clinical Teaching	6
POLS 2305	U.S. Government and Politics	3	Hours		9
MATH 1442	Statistics for Life	4	Total Hours		
Hours		16	120		
Spring			Spring		
ARTS 1301	Art and Society	3			
POLS 2306	State and Local Government	3			
PSYC 2301	General Psychology	3			
EDUC 2211	Foundations of Education	2			
MATH 2305	Discrete Mathematics I	3			
Hours		14			

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/



CAREER MAP

ELEMENTARY EDUCATION - 4-8 MATHEMATICS

Bachelor of Science



A minimum of 120 semester hours is required for the BS degree. Degree requirements include University Core Curriculum, the interdisciplinary major, and the professional development sequence. Certification in EC- 6 core subjects, EC- 6 core subjects-bilingual, 4-8 mathematics, EC-6 core subjects early childhood and STEM focus or reading, and EC-12 special education is available with the bachelor of science degree.

CONTACT INFORMATION

Career Counselor:

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INTERNSHIP INFORMATION

Early in their program, students are required to spend a significant portion of their professional development courses observing and working with experienced teachers in the local school districts. Subsequent course work is taught at the school sites, with the students utilizing the setting to become actively involved in applying the concepts learned in the lectures. The field-based program culminates in the clinical teaching experience, wherein the student is assigned on a one-to-one basis with an experienced master teacher and moves from observation, through cooperative teaching, to full responsibility for a class.

CAREER OPTIONS

- **Certified Teacher with many options for specialization: EC- 6 Core Subjects with a Reading or STEM Specialization, EC- 6 Core Subjects-Bilingual, 4-8 Mathematics, EC-12 Special Education teacher certification, EC 7-12 .**
- Bilingual Teacher
- Elementary Teacher
- Special Education Teacher
- Middle School Math or Science Teacher

ADDITIONAL PROGRAM REQUIREMENTS

The Certification Office assists students in navigating the Texas Teacher Cert. process (Faculty Center 233)

STUDENT ORGANIZATIONS

- Student Reading Council
- Student Council of Math and Science Teachers

ADDITIONAL SOURCES OF INFORMATION

Occupational Outlook Handbook- www.bls.gov/ooh/, Texas Education Association, National Education Association, Association of American Educators, National Council of Teachers of English, National Association for the Education of Young Children, Texas Association of Health, Physical Education, Recreation and Dance, American Federation of Teachers

SKILLS/ATTRIBUTES

- Critical thinking/Problem Solving
- Professionalism/Work Ethic
- Oral/Written Communication
- Digital Technology