

ACADEMIC MAP

Early Childhood with STEM Focus Elementary Education, Bachelor of Science



First Year

Fall		Hours
UNIV 1101	University Seminar I	1
ENGL 1301 or ENGL 1302	Writing and Rhetoric I or Writing and Rhetoric II	3
BIOL 1308	Science for Life I (Non-Majors Biology)	3
ARTS 1301	Art and Society	3
EDUC 1354	Child Growth and Development	3
MATH 1314	College Algebra	3
Hours		16

Spring		Hours
UNIV 1102	University Seminar II	1
COMM 1311 or ENGL 1302	Foundation of Communication or Writing and Rhetoric II	3
POLS 2305	U.S. Government and Politics	3
HIST 1301 or HIST 1302	U.S. History to 1865 or U.S. History Since 1865	3
MUSI 1306 or MUSI 1307	Understanding and Enjoying Music or Elements of Musical Style	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
Hours		16

Second Year		Hours
Fall		
ESCI 1401	Environmental Science I: Intro to Environmental Science	4
EDUC 2211	Foundations of Education	2
HIST 1301 or HIST 1302	U.S. History to 1865 or U.S. History Since 1865	3
POLS 2306	State and Local Government	3
SMTE 1350	Fundamentals of Mathematics I	3
Hours		15

Spring		Hours
READ 3310	Principles and Practices of Early Reading Instruction	3
HIST 2301	Texas History	3
ECED 3380	Developmentally Appropriate Practice in Early Childhood Education	3
SMTE 1351	Fundamentals of Mathematics II	3
SMTE 3315	Foundational Approaches to the Physical Sciences	3
Hours		15

Summer		Hours
ECED 4330	Health, Nutrition, and Locomotor Concepts for the Young Child	3
ECED 4340	Communication and Aesthetics	3
Hours		6

Third Year		Hours
Fall		
EDCI 4302	STEM Science EC-6	3
READ 3320	Principles and Practices of Reading Instruction	3
ELEM 4330	Teaching Mathematics in the Elementary School	3
SMTE 3316	Foundational Approaches to the Life Sciences	3
IDET 4300	STEM Technology	3
Hours		15

Spring		Hours
BIEM 4357	Methods of Teaching English as a Second Language	3
EDCI 4301	STEM Mathematics	3
EDUC 3211	Culturally and Linguistically Responsive Teaching	2
ECED 4350	EC-6 Social Studies Curriculum	3
READ 3352	Content Area Reading for Elementary Students	3
Hours		14

Fourth Year		Hours
Fall		
SPED 3310	Individual Differences in Schools and Communities	3
ECED 4345	EC-6 Assessment and Evaluation	3
EDUC 4305	Seminar I	3
IDET 3210	Design and Development of Technology-Integrated Learning Environments	2
READ 3351	Reading Assessment and Intervention	3
Hours		14

Spring		Hours
Coordinator Approved Elective		3
EDUC 4395	Seminar II	3
EDUC 4694	Clinical Teaching	6
Hours		12

Total Hours	123
--------------------	------------

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 - EC-6 EARLY CHILDHOOD DELIVERY WITH STEM FOCUS

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:

Stefani Schomaker, PhD, LPC
UC 304 | 361.825.2628
stefani.schomaker@tamucc.edu

Internship Coordinator:

Asst. Clinical Professor Michele Staples
ECDC 219F | 361.825.6033
michele.staples@tamucc.edu

Department Contact:

Susane Horn
ECDC 242A | 361.825.2669
Susane.Horn@tamucc.edu

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**

SKILLS/ATTRIBUTES

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

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