

Bachelor of Science in Education (4-8 Middle-Level Math/Science Teacher Certification)

About This Program

The Bachelor of Science in Education with 4-8 Middle-Level Math/Science Teacher Certification offers students a degree in education along with teacher certification allowing graduates to teach math and science in grades 4-8 in Texas.

Competencies

1. Initial certification candidates will be able to demonstrate knowledge of instructional competencies including assessment of student learning, ability to plan and deliver instruction, ability to differentiate instruction to meet varying student ability levels and needs and demonstrate professional ethics.
2. Teacher candidates will be able to display positive professional dispositions during courses and practicum settings, with 1% or fewer demonstrating a violation of dispositional standards.
3. Teacher candidates will be able to design clear, well-organized, sequential, engaging, and flexible learning experiences that reflect best practices, align with standards and related content, are appropriate for diverse learners, and address all required accommodations and modifications.

Admissions Criteria

Students seeking admission to the College of Education must meet specific criteria established by the College of Education for unconditional admission:

- Satisfy credit hour requirements for admission to a degree plan.
- Application for admission.
- Submit transcripts from each college or university the student has attended (reflecting all current/completed semesters).
- Be TSI (Texas Success Initiative) complete.
- Have a minimum GPA, not less than 2.75, for any applicant, that leads to a cohort average of 3.0 or higher.
- Any other assessment requirements deemed necessary by the College of Education.
- Students who have been suspended or expelled from The University of Texas at Arlington or any other university or program for reasons other than academic reasons may be denied admission or readmission to an educator preparation program in the College of Education.

Educator preparation program requirements are located on the College of Education website.

Curriculum

Foundations

General Core Requirements (<https://catalog.uta.edu/academicregulations/degree requirements/generalcore requirements/>)

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Students must complete specific classes in certain core area.

For Communication select:

ENGL 1301	RHETORIC AND COMPOSITION I
ENGL 1302	RHETORIC AND COMPOSITION II

For Language, Philosophy & Culture select:

ENGL 2303	TOPICS IN LITERATURE
or ENGL 2309	WORLD LITERATURE
or ENGL 2319	BRITISH LITERATURE
or ENGL 2329	AMERICAN LITERATURE

For Mathematics select:

MATH 1302	COLLEGE ALGEBRA
MATH 1308	ELEMENTARY STATISTICAL ANALYSIS

For Life & Physical Science select:

BIOL 1441	BIOLOGY I FOR SCIENCE MAJORS: CELL AND MOLECULAR BIOLOGY (required)
BIOL 1442	BIOLOGY II FOR SCIENCE MAJORS: ECOLOGY AND EVOLUTION

For U.S. History select:

HIST 1301	HISTORY OF THE UNITED STATES TO 1865
HIST 1302	HISTORY OF THE UNITED STATES, 1865 TO PRESENT

Education Foundations

Additional hours required in core.

EDUC 2302	THE PROFESSIONAL EDUCATOR ¹	3
BIOL 3454	GENERAL ZOOLOGY	4
or BIOL 3427	PLANT SCIENCE	
MATH 1303	TRIGONOMETRY	3
or MATH 1325	ANALYTIC GEOMETRY	
or MATH 3313	INTRODUCTION TO PROBABILITY	
MATH 1330	ARITHMETICAL PROBLEM SOLVING	3
MATH 1331	GEOMETRICAL INFERENCE AND REASONING	3
MATH 1332	FUNCTIONS, DATA, AND APPLICATIONS	3
MATH 4350	PRECALCULUS FOR MID-LEVEL MATHEMATICS TEACHERS (Capstone I: Fall Only)	3
MATH 4351	CALCULUS FOR MID-LEVEL MATHEMATICS TEACHERS (Capstone II: Spring Only)	3
PHYS 1302	PHYSICS FOR NON SPECIALISTS II	3
or GEOL 1302	EARTH HISTORY	
or BIOL 3454	GENERAL ZOOLOGY	
or BIOL 3427	PLANT SCIENCE	
SCIE 3301	PHYSICAL SCIENCE - PHYSICS	3
SCIE 3302	PHYSICAL SCIENCE - CHEMISTRY	3
or CHEM 1451	CHEMISTRY FOR HEALTH SCIENCES	
SCIE 3303	GEOLOGY, METEOROLOGY, AND OCEANOGRAPHY	3
SCIE 3304	ASTRONOMY (MATH/SCIENCE/TECHNOLOGY ELECTIVE)	3
Education Specialization		
EDUC 4340	HUMAN GROWTH AND DEVELOPMENT	3
EDUC 4344	TEACHING IN MIDDLE/SECONDARY SCHOOL SCIENCE CLASSROOMS	3
LIST 4378	TEACHING READING, WRITING, AND LITERATURE IN THE MIDDLE LEVEL GRADES	3
EDUC 4345	TEACHING IN MIDDLE/SECONDARY SCHOOL MATHEMATICS CLASSROOMS	3
LIST 4343	CONTENT AREA READING AND WRITING	3
EDUC 4318	POSITIVE CLASSROOM MANAGEMENT	3
EDUC 3333	STEM EDUCATION IN THE PK-12 CONTEXT	3
EDUC 4319	CLASSROOM ASSESSMENT	3
SPED 3301	CHARACTERISTICS OF INDIVIDUALS WITH DISABILITIES	3
EDUC 3301	TEACHING DIVERSE LEARNERS	3
EDUC 4647	CLINICAL TEACHING IN MIDDLE/SECONDARY SCHOOL/ALL-LEVEL CLASSROOMS	6
Total Hours		120

¹ Satisfies the first-year experience requirement, if taken at UTA; if not taken at UTA, students must take [UNIV 1101 \(https://catalog.uta.edu/archives/2025-2026/search/?P=UNIV%201101\)](https://catalog.uta.edu/archives/2025-2026/search/?P=UNIV%201101).

Program Completion

ELIGIBILITY FOR PROGRAM CONTINUATION

Each candidate for certification must:

- Demonstrate suitability for admission to the education profession.
- Demonstrate knowledge of and adherence to the Code of Ethics and Standard Practices for Texas Educators.
- Demonstrate the speech competencies associated with proficient oral communication in instructional settings. If a student is found to be deficient in these competencies, successful completion of [COMS 3315 \(https://catalog.uta.edu/archives/2025-2026/search/?P=COMS%203315\)](https://catalog.uta.edu/archives/2025-2026/search/?P=COMS%203315) or an approved substitute will be required.
- Demonstrate progress through committee assessment of the teaching field(s) or specialization(s) and maintain a 3.0 GPA in all College of Education certification courses with a grade of C or better.
- See College of Education website for additional educator preparation program requirements.

Students/candidates who have been suspended or expelled from The University of Texas at Arlington or any other university or program for reasons other than academic reasons may be denied admission or readmission to an educator preparation program in the College of Education.

Our candidates must have a minimum overall grade point average of 2.75 or at least 2.75 in the last 60 semester credit hours of coursework. Students who do not meet the grade point average of 2.75 should consult a program advisor to determine their eligibility.

FIELD EXPERIENCE

Application for clinical teaching is required a year in advance of your clinical teaching semester.

Middle-level teacher certification candidates participate in field experiences in both their junior and senior years in the program. Candidates receive two placements for field experiences, in an upper-grade classroom and in a lower-grade classroom. Candidates work with the same cooperating teachers both years. During the fall semester of the junior year, field experiences are a minimum of 20 hours. During the spring semester of the junior year, field experiences are a minimum of 40 hours. During the fall semester of the senior year, candidates are in their assigned field experience classrooms one day per week for ten weeks, five weeks at each placement. Candidates are also actively engaged in planning, teaching, and participating in the larger school events. To be eligible to participate in middle-level field experiences, candidates must have:

- Filed a degree plan with the COEd Advising Office
- Have a minimum GPA, not less than 2.75, for any applicant, that leads to a cohort average of 3.0 or higher.
- Completed the required content-area courses
- Earned a minimum GPA of 3.0 in all College of Education certification courses
- Pass a criminal background check

CLINICAL (STUDENT) TEACHING

Middle-level 4th-8th Grade Clinical Teaching is the final semester. Students attend faculty meetings, parent-teacher conferences and professional development experiences, as well as regularly scheduled university seminars that involve presentations by partner school principals and university faculty. Clinical teaching lasts one semester; it begins with the school district calendar and ends with UTA Graduation.

Candidates must attend a mandatory orientation to become familiar with the Clinical Teaching Handbook and the requirements prior to beginning the clinical teaching assignment. For purposes of determining clinical teaching eligibility for all education candidates, the following must be completed:

- Have a minimum GPA, not less than 2.75, for any applicant, that leads to a cohort average of 3.0 or higher.
- 3.0 GPA in all College of Education certification courses with a grade of C or better in all College of Education certification courses.
- Additional requirements specific to each certification level.

ORAL COMMUNICATION COMPETENCY REQUIREMENT

All students will satisfy the oral communication requirement during the professional development sequence leading to initial teacher certification. Students must complete the Field Experience semester with an acceptable evaluation of oral communication by university supervisors and assigned cooperating teachers in the field.

OUT-OF-STATE STUDENTS

The Texas Education Agency (TEA) requires candidates seeking certification to complete all clinical teaching/practica in a TEA-approved site. Out-of-state students who do not complete the clinical teaching/practicum at a UTA College of Education and TEA-approved site and meet all other TEA requirements do not qualify for Texas educator certification. If seeking certification outside of Texas, please work with your state agency in the state in which you are seeking certification to determine eligibility and to complete any additional requirements. Please note that after successful completion of your UTA College of Education degree, you may request a memo indicating your degree completion. UTA cannot recommend out-of-state students for certification and cannot recommend out-of-state students to take Texas certification exam(s). Additionally, UTA faculty and staff cannot complete out-of-state form requests for individuals seeking certification, licensure, and/or endorsements in another state according to TEA.

CHANGES

Program requirements may change as state/TEA certification requirements change.

Advising Resources

Location:

Trimble Hall, Room 105

Email:

coedadvising@uta.edu

Phone:

817-272-2956

Web:

Advising Information and Appointments