

BS IN CHEMISTRY 7-12 CHEMISTRY CERTIFICATION

Required Admission into the Teacher Preparation Program

The Texas A&M University–Texarkana Teaching and Professional Programs in Education (TPPE) is a TEA approved Educator Preparation Program and offers baccalaureate degrees for students seeking teacher certification in Texas. In addition to being admitted into a Texas Education Agency (TEA) approved Texas Educator Preparation Program, to become a certified Texas educator, passing the Texas Examinations of Educator Standards (TExES) is required. Applications for admission to the Texas A&M University-Texarkana Teacher Preparation Program are accepted for in February for the Spring and September for the Fall Semesters. Listed below are the Admission requirements for the A&M University-Texarkana Educator Preparation Program:

Admission Requirements:

1. Application to the program submitted through TK20 (<https://tamut.tk20.com/campustoolshighered/start.do>) (includes a \$35 fee)
2. **Overall GPA of 2.70 or higher**
3. Passing score on writing sample and interview (completed during ED 311)
4. Required content hours for this certification:
 - a. **15 semester hours** from the specified content area
 - b. **no grade below "C"**

Out-of-Country Applicants

Out-of-country applicants to the teacher preparation program must meet ONE of the following:

- Verification of satisfactory score on the Test of English as a Foreign Language- Internet-Based Test (TOEFL-IBT). The acceptable passing scores are: Speaking 24, Listening 22, Reading 22, Writing 21.
- Completion of an undergraduate or graduate degree in the U.S.
- Completion of an undergraduate or graduate degree outside of the U.S. from the list of approved countries generated by the Texas Education Agency.

For more information email education@tamut.edu (<http://catalog.tamut.edu/arts-sciences-education/teacher-certifications/education@tamut.edu>).

Chemistry w/7-12 Chemistry Teacher Certification Degree Requirements

Students should refer to their DegreeWorks degree audit in their Web for Students account for more information regarding their degree requirements.

Code	Title	Hours
Major Requirements		
General Education Requirements (http://catalog.tamut.edu/academic-information/university-core-curriculum/)		42
CHEM 1311	General Chemistry I	3
CHEM 1111	General Chemistry I (Lab)	1
CHEM 1312	General Chemistry II	3
CHEM 1112	General Chemistry II (Lab)	1
CHEM 2423	Organic Chemistry I	4
CHEM 2425	Organic Chemistry II	4
CHEM 321	Inorganic Chemistry	4
CHEM 340	Quantitative Chemical and Instrumental Analysis	4
CHEM 351	Physical Chemistry I	4
CHEM 405	Environmental Chemistry	3
CHEM 410	Biochemistry I	4
CHEM 440	Instrumental Analysis	4
CHEM 479	Capstone in Chemistry	3
CHEM 497	Special Topics in Chemistry	1-4
MATH 2413	Calculus I ¹	4
PHYS 2325	University Physics I	3
PHYS 2125	University Physics I Lab	1
PHYS 2326	University Physics II	3
PHYS 2126	University Physics II Lab	1
Other Requirements		

BIOL 1306	Biology for Science Majors I ¹	3
BIOL 1106	Biology for Science Majors I Lab ¹	1
BIOL 1307	Biology for Science Majors II ¹	3
BIOL 1107	Biology for Science Majors II Lab ¹	1
RDG 343	Content Area Literacy Instruction for Secondary Students	3
Professional Development		
ED 311	Teaching and Learning for Social Change (EL)	3
ED 321	Secondary School Methods	3
Block 1:		
ED 331	Classroom and Behavior Management ^{2,3}	3
ED 495	Field-Based Co-Teaching Semester ³	3
Block 2:		
ED 496	Clinical Co-Teaching Semester (EL) ⁴	3
SPED 418	Inclusion of Students with High Support Needs in the Content Areas ⁴	3
Electives (As needed to satisfy minimum degree requirements and 54 semester credit hours of Upper Division Coursework)		
Minimum Grade of "C" in all Major, Ed, Sped and Professional Development Courses		
Minimum Hours for Degree		120

¹ Satisfies Core Curriculum

² Requires Admission to Teacher Prep Program

³ Requires successful placement interview with a partnership public school district

⁴ Requires passing all TExES exams

Note: A minimum of 46 upper division hours (300 and 400 level courses) are required for this degree. Resident credit totaling 25% of the hours is required for the degree. A minimum GPA of 2.0 is required in three areas for graduation: Overall GPA, Institutional GPA, and Major GPA.

NOTE: All courses in Major, ED, RDG, and SPED must be completed with a grade of 'C' or higher.

Chemistry 7-12 Chemistry Certification 4 Year Plan

Students should refer to their DegreeWorks degree audit in their Web for Students account for more information regarding their degree requirements.

First Year

Code	Title	Hours
Fall		
		Semester Credit Hours
ENGL 1301	Composition I ^{requires minimum grade of 'C'; Satisfies Core Curriculum}	3
BIOL 1306	Biology for Science Majors I ^{Satisfies Core Curriculum}	3
BIOL 1106	Biology for Science Majors I Lab ^{Satisfies Core Curriculum}	1
MCOM 1307 or SPCH 1315	Introduction to Mass Communication ^{Satisfies Core Curriculum} Public Speaking	3
IS 1100	University Foundations ^{mandatory for FTIC students only}	1
MATH 2412	Pre-Calculus ^{satisfies core curriculum; Only if needed as prereq for MATH 2413}	4
Fall Total Semester Credit Hours		15
Spring		
		Semester Credit Hours
ENGL 1302	Composition II ^{Satisfies Core Curriculum}	3
MATH 2413	Calculus I	4
BIOL 1307	Biology for Science Majors II ^{Satisfies Core Curriculum}	3
BIOL 1107	Biology for Science Majors II Lab ^{Satisfies Core Curriculum}	1
Language, Philosophy and Culture Core Curriculum Requirement (http://catalog.tamut.edu/academic-information/university-core-curriculum/)		3
Creative Arts Core Curriculum Requirement (http://catalog.tamut.edu/academic-information/university-core-curriculum/)		3

Spring Total Semester Credit Hours	17
Total First Year Semester Credit Hours	32

Second Year

Code	Title	Hours
Fall		
PSCI 2305	U.S. Government and Politics	3
HIST 1301	United States History I <small>Satisfies Core Curriculum</small>	3
CHEM 1311	General Chemistry I <small>Satisfies Core Curriculum</small>	3
CHEM 1111	General Chemistry I (Lab)	1
PHYS 2325	University Physics I	3
PHYS 2125	University Physics I Lab	1
Fall Total Semester Credit Hours		14
Spring		
		Semester Credit Hours
PSCI 2306	State and Local Government	3
HIST 1302	United States History II <small>Satisfies Core Curriculum</small>	3
CHEM 1312	General Chemistry II	3
CHEM 1112	General Chemistry II (Lab)	1
PHYS 2326	University Physics II	3
PHYS 2126	University Physics II Lab	1
Spring Total Semester Credit Hours		14
Total Second Year Semester Credit Hours		28

Third Year

Code	Title	Hours
Fall		
ED 311	Teaching and Learning for Social Change (EL)	3
CHEM 2423	Organic Chemistry I	4
CHEM 340	Quantitative Chemical and Instrumental Analysis	4
CHEM 351	Physical Chemistry I	4
Social and Behavioral Science Core Curriculum Requirement (http://catalog.tamut.edu/academic-information/university-core-curriculum/)		3
Fall Total Semester Credit Hours		18
Spring		
		Semester Credit Hours
ED 321	Secondary School Methods	3
CHEM 2425	Organic Chemistry II	4
CHEM 405	Environmental Chemistry	3
CHEM 440	Instrumental Analysis	4
Spring Total Semester Credit Hours		14
Summer		
		Semester Credit Hours
RDG 343	Content Area Literacy Instruction for Secondary Students	3
Summer Total Semester Credit Hours		3
Total Third Year Semester Credit Hours		35

Fourth Year

Code	Title	Hours
Fall		
ED 495	Field-Based Co-Teaching Semester	3
ED 331	Classroom and Behavior Management	3
CHEM 321	Inorganic Chemistry	4
CHEM 410	Biochemistry I	4
Fall Total Semester Credit Hours		14
Spring		
ED 496	Clinical Co-Teaching Semester (EL)	3
SPED 418	Inclusion of Students with High Support Needs in the Content Areas	3
CHEM 479	Capstone in Chemistry	3
CHEM 497	Special Topics in Chemistry	1-4
Spring Total Semester Credit Hours		12
Total Fourth Year Semester Credit Hours		26
Total Semester Credit Hours Required for Degree		120

NOTE: All courses in Major, ED, RDG, and SPED must be completed with a grade of 'C' or higher.

Note: A minimum of 46 upper division hours (300 and 400 level courses) are required for this degree. Resident credit totaling 25% of the hours is required for the degree. A minimum GPA of 2.0 is required in three areas for graduation: Overall GPA, Institutional GPA, and Major GPA.