

# BS IN MATHEMATICS 7-12 MATHEMATICS 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](mailto:education@tamut.edu) (<http://catalog.tamut.edu/arts-sciences-education/teacher-certifications/education@tamut.edu>).

## 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
<b>Major Requirements</b> <sup>6</sup>		
General Education Requirements ( <a href="http://catalog.tamut.edu/academic-information/university-core-curriculum/">http://catalog.tamut.edu/academic-information/university-core-curriculum/</a> )		
MATH 2305	Discrete Mathematics	3
MATH 2318	Linear Algebra	3
MATH 2413	Calculus I <sup>7</sup>	4
MATH 2414	Calculus II	4
MATH 2415	Calculus III	4
MATH 321	College Geometry	3
MATH 330	Math Foundations and Applications	3
MATH 334	Introduction to Abstract Algebra	3
MATH 357	Probability and Statistics using R	3
MATH 380	Real Analysis	3
MATH 430	Mathematical Modeling	3
MATH 437	Number Theory	3
<b>Other Requirements:</b>		
RDG 343	Content Area Literacy Instruction for Secondary Students	3
<b>Prof. Development</b>		
ED 311	Teaching and Learning for Social Change (EL)	3
ED 321	Secondary School Methods	3
<b>Block 1</b>		
ED 331	Classroom and Behavior Management <sup>9</sup>	3
ED 495	Field-Based Co-Teaching Semester <sup>9</sup>	3

**Block 2**

ED 496	Clinical Co-Teaching Semester (EL) <sup>10</sup>	3
SPED 418	Inclusion of Students with High Support Needs in the Content Areas <sup>10</sup>	3
Upper Division Electives		12
<b>Electives (as needed to satisfy minimum degree requirements including 54 SCH in Upper Division coursework)</b>		
<b>Minimum Hours for Degree</b>		<b>120</b>

<sup>6</sup> Minimum grade of "C" required in all Major, Education and Professional Development Courses

<sup>7</sup> Satisfies core curriculum

<sup>9</sup> Requires successful placement interview with a partnership public school district

<sup>10</sup> Requires passing all TExES exams

Note: A minimum of 54 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.

## Mathematics 7-12 Mathematics Certification 4 Year Plan

### First Year

Code	Title	Hours
<b>Fall</b>		
		<b>Semester Credit Hours</b>
HIST 1301	United States History I <sup>Satisfies Core Curriculum</sup>	3
ENGL 1301	Composition I <sup>requires minimum grade of 'C', Satisfies Core Curriculum</sup>	3
MATH 2413	Calculus I <sup>requires minimum grade of 'C', Satisfies Core Curriculum</sup>	4
IS 1100	University Foundations	1
Component Area Option B of the Core Curriculum ( <a href="http://catalog.tamut.edu/academic-information/university-core-curriculum/">http://catalog.tamut.edu/academic-information/university-core-curriculum/</a> ) <sup>EDUC 1301 is recommended</sup>		3
<b>Fall Total Semester Credit Hours</b>		<b>14</b>
<b>Spring</b>		
		<b>Semester Credit Hours</b>
HIST 1302	United States History II <sup>Satisfies Core Curriculum</sup>	3
ENGL 1302	Composition II <sup>Satisfies Core Curriculum</sup>	3
MATH 2414	Calculus II <sup>requires minimum grade of 'C'</sup>	4
Social and Behavioral Science Core Curriculum Requirement ( <a href="http://catalog.tamut.edu/academic-information/university-core-curriculum/">http://catalog.tamut.edu/academic-information/university-core-curriculum/</a> )		3
MATH 2305	Discrete Mathematics <sup>requires minimum grade of 'C'</sup>	3
<b>Spring Total Semester Credit Hours</b>		<b>16</b>
<b>Total First Year Semester Credit Hours</b>		<b>30</b>

### Second Year

Code	Title	Hours
<b>Fall</b>		
		<b>Semester Credit Hours</b>
MATH 2415	Calculus III <sup>requires minimum grade of 'C'</sup>	4
MATH 2318	Linear Algebra <sup>requires minimum grade of 'C'</sup>	3
PSCI 2305	U.S. Government and Politics	3
Life and Physical Sciences Core Curriculum Requirement ( <a href="http://catalog.tamut.edu/academic-information/university-core-curriculum/">http://catalog.tamut.edu/academic-information/university-core-curriculum/</a> )		4
SPCH 1315	Public Speaking <sup>Satisfies Core Curriculum</sup>	3
or COMM 1307	Introduction to Mass Communication	
or COMM 1311	Introduction to Communication Studies	
<b>Fall Total Semester Credit Hours</b>		<b>17</b>

<b>Spring</b>		<b>Semester Credit Hours</b>
MATH 334	Introduction to Abstract Algebra	3
PSCI 2306	State and Local Government	3
Life and Physical Sciences Core Curriculum Requirement ( <a href="http://catalog.tamut.edu/academic-information/university-core-curriculum/">http://catalog.tamut.edu/academic-information/university-core-curriculum/</a> )		3-4
Language, Philosophy and Culture Core Curriculum Requirement ( <a href="http://catalog.tamut.edu/academic-information/university-core-curriculum/">http://catalog.tamut.edu/academic-information/university-core-curriculum/</a> )		3
Creative Arts Core Curriculum Requirement ( <a href="http://catalog.tamut.edu/academic-information/university-core-curriculum/">http://catalog.tamut.edu/academic-information/university-core-curriculum/</a> )		3
<b>Spring Total Semester Credit Hours</b>		<b>15-16</b>
<b>Total Second Year Semester Credit Hours</b>		<b>32-33</b>

## Third Year

<b>Code</b>	<b>Title</b>	<b>Hours</b>
<b>Fall</b>		
		<b>Semester Credit Hours</b>
MATH 380	Real Analysis	3
MATH 437	Number Theory	3
ED 321	Secondary School Methods <sup>requires minimum grade of 'C'</sup>	3
Upper Division Elective		3
Upper Division Elective		3
<b>Fall Total Semester Credit Hours</b>		<b>15</b>
<b>Spring</b>		
		<b>Semester Credit Hours</b>
ED 311	Teaching and Learning for Social Change (EL) <sup>requires minimum grade of 'C'</sup>	3
MATH 330	Math Foundations and Applications	3
MATH 357	Probability and Statistics using R	3
RDG 343	Content Area Literacy Instruction for Secondary Students <sup>requires minimum grade of 'C'</sup>	3
Upper Division Elective		3
Upper Division Elective		3
<b>Spring Total Semester Credit Hours</b>		<b>18</b>
<b>Total Third Year Semester Credit Hours</b>		<b>33</b>

## Fourth Year

<b>Code</b>	<b>Title</b>	<b>Hours</b>
<b>Fall</b>		
		<b>Semester Credit Hours</b>
MATH 321	College Geometry	3
MATH 430	Mathematical Modeling	3
ED 495	Field-Based Co-Teaching Semester <sup>requires minimum grade of 'C'</sup>	3
ED 331	Classroom and Behavior Management <sup>requires minimum grade of 'C'</sup>	3
Elective - Upper or Lower Division as needed to meet upper division and overall requirement		3
<b>Fall Total Semester Credit Hours</b>		<b>15</b>
<b>Spring</b>		
		<b>Semester Credit Hours</b>
ED 496	Clinical Co-Teaching Semester (EL)	3
SPED 418	Inclusion of Students with High Support Needs in the Content Areas <sup>requires minimum grade of 'C'</sup>	3
Elective - Upper or Lower Division as needed to meet upper division and overall requirement		3-4
<b>Spring Total Semester Credit Hours</b>		<b>9-10</b>

<b>Total Fourth Year Semester Credit Hours</b>	<b>24-25</b>
<b>Total Semester Credit Hours required for the Degree</b>	<b>120</b>

***Minimum grade of 'C' is required in all Major, ED, SPED & Professional Development courses***

Note: A minimum of 54 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.