

# BS IN MATHEMATICS 4-8 MATHEMATICS CERTIFICATION

## Required Admission into the Teacher Preparation Program

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The Teacher Preparation Program at Texas A&M University-Texarkana is an approved educator preparation program through the Texas Education Agency (TEA). The program provides baccalaureate degrees for students pursuing teacher certification in Texas.

To become a certified Texas educator, candidates must:

- Gain admission to a TEA-approved Educator Preparation Program
- Complete all program requirements and graduate from the program
- Pass the Texas Examinations of Educator Standards (TExES)

Applications are accepted twice per year:

- **Spring Semester:** Applications due in February
- **Fall Semester:** Applications due in September

### Admission Requirements

#### General Requirements

1. **Program Application:** Submit application through the Educator Portal
2. **Academic Standing:** Maintain an overall GPA of 2.70 or higher
3. **Assessment:** Pass a screening instrument (completed during ED 311 course)
4. **Content Area Requirements:** 15 semester credit hours from the specified content area

Educators who apply for certification are required to demonstrate English language proficiency by fulfilling one of the following requirements:

1. Completion of an undergraduate or graduate degree at an accredited institution of higher education in the United States or one of its territories.
2. Verification of a minimum scaled score that falls within the High-Intermediate level in each section on the Test of English as a Foreign Language internet-Based Test (TOEFL-iBT).
3. An undergraduate or graduate degree that was earned at an institution of higher education in a country outside of the United States listed in the figure provided below.  
Figure: 19 TAC §230.11(b)(5)(C) (<https://tea.texas.gov/about-tea/laws-and-rules/sbec-rules-tac/sbec-tac-currently-in-effect/19-230-0011-1.pdf>)
4. A standard certificate issued by the department of education in another state where examinations for the certificate were taken and passed. Applicants must submit official test score reports along with the out-of-state standard certificate for the credentials review. EPP candidates must submit official score reports to the program.

For more information, email [education@tamut.edu](mailto: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 <sup>6</sup></b>		
General Education Requirements ( <a href="http://catalog.tamut.edu/academic-information/university-core-curriculum/">http://catalog.tamut.edu/academic-information/university-core-curriculum/</a> )		42
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>		
BIOL 1308	Biology for Non-Science Majors I <sup>7</sup>	3
BIOL 1108	Biology for Non-science Majors I Lab <sup>7</sup>	1
BIOL 1309	Biology for Non-Science Majors II <sup>7</sup>	3
BIOL 1109	Biology for Non-science Majors II Lab <sup>7</sup>	1
PHYS 1415	Physical Science I <sup>7</sup>	4
RDG 343	Content Area Literacy Instruction for Secondary Students	3
RDG 350	Early Literacy Development and the Science of Teaching Reading (EL)	3
Upper Division Electives		9
<b>Prof. Development <sup>3</sup></b>		
ED 311	Growth and Development for EC-12 Grade	3
ED 321	Secondary School Methods	3
<b>Block 1</b>		
ED 331	Classroom and Behavior Management <sup>9</sup>	3
ED 495	Clinical Experience I <sup>9</sup>	3
<b>Block 2</b>		
ED 496	Clinical Experience II <sup>10</sup>	3
SPED 418	Inclusion of Students with High Support Needs in the Content Areas <sup>10</sup>	3
<b>Electives</b>		
as needed to satisfy minimum degree requirements including 54 SCH in Upper Division coursework		
<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>8</sup> Requires Admission to Teacher Prep Program

<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 4-8 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 a minimum grade of 'C', Satisfies Core Curriculum, Calculus I pre-requisites (if any) will be determined by the College of CBET using established readiness indicators.</sup>	4
PHYS 1415	Physical Science I	4
UNIV 1100	University Foundations	1
<b>Fall Total Semester Credit Hours</b>		<b>15</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
MATH 2305	Discrete Mathematics	3
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

<b>Spring Total Semester Credit Hours</b>	<b>16</b>
<b>Total First Year Semester Credit Hours</b>	<b>31</b>

## Second Year

Code	Title	Hours
Fall		Semester Credit Hours
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
BIOL 1308	Biology for Non-Science Majors I <sup>Satisfies Core Curriculum</sup>	3
BIOL 1108	Biology for Non-science Majors I Lab <sup>Satisfies Core Curriculum</sup>	1
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>
Spring		Semester Credit Hours
BIOL 1309	Biology for Non-Science Majors II <sup>Satisfies Core Curriculum</sup>	3
BIOL 1109	Biology for Non-science Majors II Lab <sup>Satisfies Core Curriculum</sup>	1
MATH 334	Introduction to Abstract Algebra	3
PSCI 2306	State and Local Government	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
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
<b>Spring Total Semester Credit Hours</b>		<b>16</b>
Summer		Semester Credit Hours
RDG 343	Content Area Literacy Instruction for Secondary Students <sup>requires minimum grade of 'C'</sup>	3
<b>Summer Total Semester Credit Hours</b>		<b>3</b>
<b>Total Second Year Semester Credit Hours</b>		<b>36</b>

## Third Year

Code	Title	Hours
Fall		Semester Credit Hours
ED 321	Secondary School Methods <sup>requires minimum grade of 'C'</sup>	3
MATH 380	Real Analysis	3
MATH 437	Number Theory	3
RDG 350	Early Literacy Development and the Science of Teaching Reading (EL)	3
Upper Division Elective		3
<b>Fall Total Semester Credit Hours</b>		<b>15</b>
Spring		Semester Credit Hours
MATH 357	Probability and Statistics using R <sup>requires minimum grade of 'C'</sup>	3
MATH 330	Math Foundations and Applications	3
ED 311	Growth and Development for EC-12 Grade <sup>requires minimum grade of 'C'</sup>	3
Upper Division Elective		3

<b>Spring Total Semester Credit Hours</b>	<b>12</b>
<b>Total Third Year Semester Credit Hours</b>	<b>27</b>

## Fourth Year

<b>Code</b>	<b>Title</b>	<b>Hours</b>
<b>Fall</b>		<b>Semester Credit Hours</b>
ED 495	Clinical Experience I <small>requires minimum grade of 'C'</small>	3
ED 331	Classroom and Behavior Management	3
MATH 321	College Geometry	3
MATH 430	Mathematical Modeling	3
Elective - Upper 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 Experience II <small>requires minimum grade of 'C'</small>	3
SPED 418	Inclusion of Students with High Support Needs in the Content Areas <small>requires minimum grade of 'C'</small>	3
Electives as needed to satisfy minimum degree requirements including 54 semester credit hours of upper division coursework or total semester credit hours		5
<b>Spring Total Semester Credit Hours</b>		<b>11</b>
<b>Total Fourth Year Semester Credit Hours</b>		<b>26</b>
<b>Total Semester Credit Hours required for Degree</b>		<b>120</b>

***Minimum Grade of "C" is required in all Major, ED, RDG, SPED, and Professional Development course***

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.