

# Mathematics, 7-12 Teacher Certification B.S.

## Secondary and All-Level Education

See for information: Secondary and All-Level Education (<https://coursecatalog.tamuc.edu/undergrad/colleges-and-departments/education-human-services/curriculum-instruction/secondary-and-all-level-education/>)

### Core Curriculum Courses

See the Core Curriculum Requirements (<https://coursecatalog.tamuc.edu/undergrad/core-curriculum-requirements/>) 42

### Required courses in the major:

MATH 2305	Discrete Mathematics	3
MATH 2318	Linear Algebra	3
MATH 2320	Differential Equations	3
MATH 2413	Calculus I *	
MATH 2414	Calculus II	4
MATH 2415	Calculus III	4
MATH 402	Mathematical Statistics I	3
MATH 403	Mathematical Statistics II	3
COSC 1436	Introduction to Computer Science and Programming	4
Choose one of the three:		
COSC 1437	Programming Fundamentals II	4
PHYS 2425	University Physics I *	
PHYS 2426	University Physics II *	

### Required concentration courses, 39 credit hours:

SED 330	Special Populations and Diverse Learners	3
SED 331	Instructional Design	3
SED 332	Creating an Engaging Learning Environment	3
SED 400	Issues of Professionalism	3
SED 401	Technology Infused Curriculum and Assessment in Field-based Environments	3
SED 404	Secondary Clinical Teaching	3
SED 405	Advanced Issues of Professionalism	3
RDG 380	Comprehension and Vocabulary in Middle and High Schools	3
PSY 300	Learning Processes and Development	3
MATH 321	College Geometry	3
MATH 332	Methods of Mathematical Proofs	3
MATH 437	Number Theory	3
MATH 460	Math for Secondary Teachers	3

### Required Math Electives, 3 credit hours:

3 hours of math courses at 300/400 level except MATH 361, 362, 380 3

### Additional Electives Required, 5 credit hours

5 hours: Meet a math faculty member for taking electives 5

**Total Hours** 120

\* This courses will satisfy the Core Curriculum Requirements

### First Year

**Fall** **Hours**

Delete This Text

0

**Total Hours: 0**