

Bachelor of Science: Mathematics Education – Grades 5-12

Course	Title	Credits	Sem.
LEP/MNTC Courses Required for Admission to Teacher Preparation Program			
COMM XXX	Any Goal 1 COMM with COMM prefix <i>(Minimum grade of C or better required for admission to TPP)</i>	3	B
ENG 151 or ENG 251	Academic Writing Writing in Professions <i>(Minimum grade of C or better required for admission to TPP)</i>	4	B
MATH XXX	Any Goal 4 MATH with MATH prefix <i>(Minimum grade of C or better required for admission to TPP)</i>	3-5	B
Standards of Effective Practice			
ED 101	Introduction to Education & Lab	3	B
ED 102	Educational Technology	2	B, Su
ED 251	Child and Adolescent Growth and Development	3	B, Su
SPED 290	Introduction to Special Needs & Lab	3	B
ED 312	Human Relations for Teachers and Diversity in Education	3	B, Su
TESL 431	Foundations of Teaching Multilingual Learners	3	B
ED 301	Inclusive Learning Environments <i>*Must be taken before ED 304</i>	3	F
ED 304	Pre-Student Teaching Experience for Secondary Educators <i>*Pre-Requisite: ED 301</i>	3	S
Discipline Methods and Required Content Courses			
ED 430	Reading in the Content Areas	2	S
ED 406	Secondary Methods: Mathematics	3	so
Mathematics Content Courses			
MATH 150	Calculus I Goal 4	5	B
MATH 151	Calculus II <i>*Pre-Requisite: MATH 150</i>	4	F
MATH 200	Intro to Statistics	3	B
MATH 252	Calculus III <i>*Pre-Requisite: MATH 151</i>	4	F
MATH 300	Modern Geometry <i>*Pre-Requisite: MATH 151</i>	3	S
MATH 320	Foundations of Mathematics <i>*Pre-Requisite: MATH 150</i>	3	S
MATH 325	Combinatorics <i>*Pre-Requisite: MATH 320</i>	3	F
MATH 350	Differential Equations <i>*Pre-Requisite: MATH 151</i>	3	S
MATH 360	Linear Algebra <i>*Pre-Requisite: MATH 151</i>	3	F
MATH 480	Mathematics Seminar	1	F
Mathematics Electives			
MATH 440	Abstract Algebra <i>*Pre-Requisites: MATH 151 AND MATH 320</i>	3	Varies
MATH 450	Real Analysis <i>*Pre-Requisites: MATH 151 AND MATH 320</i>	3	Varies
MATH 455	Applied Mathematics <i>*Pre-Requisites: MATH 252 AND MATH 350</i>	3	Varies
MATH 460	Complex Analysis <i>*Pre-Requisites: MATH 252 AND Junior Status</i>	3	Varies
Additional MATH courses at the 300 level or above			
MATH 3XX	MATH courses at the 300 level or above	3	
Student Teaching			
ED 466	Student Teaching: Grade 5-12	12	B
ED 473	Teacher Licensure	0	B
Degree & Major Requirements			
	LEP/MnTC Requirements (not all listed here)	45	
	Math Content requirements <i>*MATH 150, MATH 151, and MATH 200 may count towards MnTC credits and math content requirements.</i>	38*	
	Secondary Education requirements	40	
	Total credits required	120	

Courses in the shaded area can be taken prior to admission to the Teacher Preparation Program

Courses not in the shaded areas require admission to the Teacher Preparation Program

F = Fall S = Spring B = Both F & S Su = Summer fo = fall odd so = spring odd fe = fall even se = spring even
For example – fo = Fall 2026; se = Spring 2027; fe = Fall 2026; so = Spring 2027

Special Notes:

- Students should take MATH 150 (or MATH 135 if needed) in their first semester.
- The student must fulfill the professional education requirements for licensure.

This information is provided for advising. Official curriculum is published in the SMSU academic catalog: www.SMSU.edu/catalog/
Students should refer to the online catalog or their DARS report for current curriculum. **This advising guide was updated: 2/10/2026**

- *A student should have a B (3.0) average in all required mathematics courses before being recommended for admission to the Teacher Preparation Program.*
- *A student should maintain a B (3.0) average in all required mathematics courses including a minimum of 22 credits completed before being recommended for student teaching.*
- *All courses counting toward the major must be completed with a grade of "C-" or better.*

You are responsible for keeping informed of any changes in requirements which may affect your academic career.

Course	Hours Required	Grade Band Required
Ed 101: Introduction to Education and Lab	20	K-12 General Education
SPED 290: Introduction to Special Needs and Lab	15	K-12 Special Education

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TESL 431: Foundations of Teaching Multilingual Learners and Lab	15	K-12 with 10% of class being Multilingual Learners
ED 304 Pre Student Teaching Experience for Secondary Educators	80 Hours (2 Consecutive Week Experience)	5-12 Math Education
ED 469 Secondary Student Teaching: Grades 5-12	12 Weeks	5-12 Math Education