South Dakota State University

Bachelor of Science
Major: Mathematics
Specialization: Teaching
2026-2027 Sample 4-Year Plan
Total Degree Requirements: 120 credits

Student _____ **Student ID#** _____ **Student Phone #** _____

Advisor _____ **Minimum GPA** _____ **Minor/Career Interest(s)** _____

Students are not limited to this plan; it is meant to be used as a guide for planning purposes in consultation with your advisor. The sample schedule is one possible path to completing your degree within four years. For official program requirements, please refer to the Undergraduate Catalog.

FIRST YEAR

Fall

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
ENGL 101	Composition I (SGR #1)	p. Placement	3		
MATH 123	Calculus I (SGR #5)	p. Placement	4		
MATH 198	Mathematics Professions I		1	F	
SGR #3	Social Sciences	Must meet civics requirement. Choose 1: CIV 100, HIST 151, HIST 152, POLS 100, or POLS 210	3		
SGR #6	Natural Sciences		3		
		Total Credit Hours	14		

Spring

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
MATH 125	Calculus II	p. MATH 123	4		
MATH 250	Introduction to Linear Algebra and Proof	p. MATH 123	3		
SGR #1	Written Communication	p. ENGL 101	3		
SGR #4	Arts and Humanities	Courses taken to meet this requirement must be from two different disciplines or a sequence of courses in modern languages.	3		
SGR #6	Natural Sciences		3		
		Total Credit Hours	16		

SECOND YEAR

Fall

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
EDFN 102	Introduction to Teaching		3		
MATH 225	Calculus III	p. MATH 125	4		
MATH 230	Mathematics Professions II	p. MATH 125	1	F	
MATH 253	Logic, Sets, and Proof	p. MATH 125 and MATH 250 (both with grade of C or better)	4		
MATH 261	Geometry for Teachers	p. MATH 125 & EDFN 102 (Co-req)	3	F	
		Total Credit Hours	15		

Spring

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
MATH 371	Technology for STEM Educators		2	S	
MATH 450	History of Mathematics	p. MATH 125	3	S	
SGR #2	Oral Communication		3		
SGR #4	Arts and Humanities	Courses taken to meet this requirement must be from two different disciplines or a sequence of courses in modern languages.	3		
STAT 381	Introduction to Probability and Statistics	p. MATH 125	3		
	Electives		3		
		Total Credit Hours	17		

THIRD YEAR

Fall

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
AIS 211	South Dakota American Indian Culture & Education (SGR #3)		3		

Information Subject to Change. This is not a contract.

p. = Course Prerequisite; c. = Course Co-requisites
Semester: F = Fall, S = Spring, SU = Summer

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
EDFN 340	Adolescent Development in Educational Contexts		3		
EDFN 351	Teaching & Learning I	c. EDFN 340	1		
MATH 316	Discrete Mathematics	p. MATH 250	3		
MATH 425	Real Analysis	p. MATH 253 (with grade of C or better)	3		
	Electives		3		
		Total Credit Hours	16		

Spring

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
EDFN 352	Teaching & Learning II & Lab	p. EDFN 351; c. EDFN 352L	3		
MATH 301	Mathematics Profession III		2		
MATH 413	Abstract Algebra	p. MATH 253 (with grade of C or better)	3		
MATH 433	Mathematics Education Capstone	p. MATH 253 & EDFN 101	3	S	
MATH 434	Assessment in STEM Education		1	S	
SPED 100	Introduction to Persons with Exceptionalities		3		
	Electives		2		
		Total Credit Hours	17		

FOURTH YEAR

Fall

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
EDFN 453	Teaching & Learning III	p. EDFN 352; c. EDFN 453L & SEED 450	3		
EDFN 453L	Teaching & Learning III Lab	p. EDFN 352	4		
MATH 355	Methods of Teaching Mathematics	p. MATH 125, MATH 261, & EDFN 352	4	F	
SEED 450	Reading & Content Literacy		2		
		Total Credit Hours	13		

Spring

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
EDFN 454	Teaching & Learning IV	p. EDFN 453; c. SEED 456	11		
SEED 456	Capstone/Action Research	c. EDFN 454	1		
		Total Credit Hours	12		

COMMENTS/NOTES

Students from all academic majors can pursue graduation with Fishback Honors College distinction. View the Honors program requirements.

Teacher Education Program Progression Requirements

Acceptance into Teacher Education

- A grade of "C" or better is required in education coursework (classes with AIS, EDFN, SPED, or SEED prefixes).
- An overall GPA of 2.5 is required.
- A GPA in the academic major of 2.6 is required.
- Completion of program application and professional licensure location form.

Acceptance into Residency I

- A grade of "C" or better is required in education coursework (classes with AIS, EDFN, SPED, or SEED prefixes).
- An overall GPA of 2.5 is required.
- A GPA of 2.7 is required in both major and education courses.
- The teacher candidate must take the Praxis content exam.
- The teacher candidate is also required to complete a criminal background check with field placements, a TB test with negative reading, and CPR and first aid certification.

Acceptance into Residency II

- A grade of "C" or better is required in education coursework (classes with AIS, EDFN, SPED, or SEED prefixes).
- An overall GPA of 2.5 is required.
- A GPA of 2.7 is required in both major and education courses.
- The teacher candidate must take the Praxis PLT exam.

Academic Requirements

- A grade of "C" or better is required in education coursework (classes with AIS, EDFN, SPED, or SEED prefixes).
- A grade of "C" or better is required in academic major coursework (classes with MATH or STAT prefix).
- An overall GPA of 2.5 is required.
- A GPA of 2.7 is required in both major and education courses.

Certification and Licensure

- Completion of an approved teacher preparation program.
- Completion of an approved South Dakota Indian studies course.

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Semester: F = Fall, S = Spring, SU = Summer

- Pass the state designated content knowledge test or 2.7 GPA in content major coursework.
- Pass the state designated pedagogy test.
- Apply online with the South Dakota Department of Education.
- Written recommendation from institution of higher education (SDSU) verifying program completion.