



Bachelor of Science

Major: Mathematics

Specialization: Teaching

2020-2021 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		
INFO 101	Introduction to Informatics (SGR #6)		3		
MATH 123	Calculus I (SGR #5)	p. Placement	4		
MATH 198	The Mathematics Profession		1	F	
SGR #3	Social Sciences/Diversity		3		
Total Credit Hours			14		

Spring

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
ENGL 201 or ENGL 277	Composition II (SGR #1) or Technical Writing in Engineering (SGR #1)	p. ENGL 101	3		
MATH 125	Calculus II	p. MATH 123	4		
PHYS 111-111L or PHYS 211-211L or PHYS 213-213L or CHEM 106-106L or CHEM 112-112L or BIOL 151-151L	Introduction to Physics I and Lab (SGR #6) or University Physics I and Lab (SGR #6) or University Physics II and Lab (SGR #6) or Chemistry Survey and Lab (SGR #6) or General Chemistry I and Lab (SGR #6) or General Biology I and Lab (SGR #6)	PHYS 111: p. MATH 114 or higher PHYS 211: p. MATH 123 (completed or concurrent) PHYS 213: p. PHYS 211 & MATH 125 (completed or concurrent) CHEM 106: p. 1 MATH course or placement CHEM 112: p. MATH 114 or higher (completed or concurrent) BIOL 151: no prerequisite	4		
SGR #4	Arts and Humanities Diversity		3		
	Electives		3		
Total Credit Hours			17		

Second Year

Fall

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
EDFN 101	Exploration of Teaching and Learning		1		
MATH 225	Calculus III	p. MATH 125	4		
MATH 230	Sophomore Seminar	p. MATH 125	1	F	
MATH 250	Introduction to Linear Algebra and Proof	p. MATH 123	3		
MATH 261	Geometry for Teachers	p. MATH 125 & EDFN 101	3	F	
SGR #2	Oral Communication		3		
Total Credit Hours			15		

Spring

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
MATH 253	Logic, Sets, and Proof	p. MATH 125 and MATH 250	4		
MATH 371	Technology for STEM Educators		2	S	
MATH 450	History of Mathematics	p. MATH 125	3	S	

Information Subject to Change. This is not a contract.

p. = Course Prerequisite
Semester: F = Fall, S = Spring, SU = Summer



Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
SGR #4	Arts and Humanities Diversity		3		
STAT 381	Introduction to Probability and Statistics	p. MATH 125	3		
	Electives		1		
Total Credit Hours			16		

Third Year

Fall

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
AIS 211	South Dakota American Indian Culture & Education (SGR #3)		3		
EDFN 351	Teaching & Learning I	c. EDFN 340	1		
EDFN 340	Adolescent Development in Educational Contexts		3		
MATH 316	Discrete Mathematics	p. MATH 253	3		
MATH 413	Abstract Algebra	p. MATH 315	3		
	Electives		3		
Total Credit Hours			16		

Spring

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
EDFN 352	Teaching & Learning II	p. EDFN 351; c. EDFN 352L	3		
EDFN 352L	Teaching & Learning II Lab		2		
MATH 401 s01	Senior Capstone		1		
MATH 425	Real Analysis	p. MATH 125 & MATH 315	3		
MATH 433	Mathematics Education Capstone	p. MATH 125, MATH 315, & EDFN 101	3	S	
MATH 434	Assessment in STEM Education		1	S	
	Electives		3		
Total Credit Hours			16		

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		
MATH 401 s02	Senior Capstone		1		
SEED 456	Capstone/Action Research	c. EDFN 454	1		
Total Credit Hours			13		

Comments/Notes

Students from all academic majors can pursue graduation with Fishback Honors College distinction. View the [Honors program requirements](#).