



Bachelor of Science

Major: Physics

Specialization: Science Teaching

2024-2025 Sample 4-Year Plan

Total Degree Requirements: 120 credits

Student _____ Student ID# _____ Student Phone # _____

Advisor _____ Minimum GPA 2.00 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

Table with 6 columns: Prefix + Number, Course Title, Prerequisites/Comments, Credits, Semester, Grade. Rows include CHEM 112/112L, EDFN 101, MATH 123, PHYS 119, PHYS 185/185L, SGR #2, and Total Credit Hours (16).

Spring

Table with 6 columns: Prefix + Number, Course Title, Prerequisites/Comments, Credits, Semester, Grade. Rows include CHEM 114/114L, MATH 125, SGR #1, SGR #3, and Total Credit Hours (14).

SECOND YEAR

Fall

Table with 6 columns: Prefix + Number, Course Title, Prerequisites/Comments, Credits, Semester, Grade. Rows include MATH 225, MATH 321, *PHYS 211/211L, SGR #4, and Total Credit Hours (15).

Students are eligible to petition for a MATH 123 and PHYS 211/L concurrent enrollment if they qualify for MATH 123 placement and want to take PHYS 211/L in the first year rather than the second year

Spring

Table with 6 columns: Prefix + Number, Course Title, Prerequisites/Comments, Credits, Semester, Grade. Rows include EDFN 340, EDFN 351, EE 216/216L, PHYS 213/213L, SGR #1, and Total Credit Hours (16).

Information Subject to Change. This is not a contract.

p. = Course Prerequisite c. = Course Corequisite Semester: F = Fall, S = Spring, SU = Summer odd (even) = odd (even) year only



THIRD YEAR

Fall

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
AIS 211 (SGR#3)	South Dakota American Indian Culture and Education		3		
PHYS 316/316L	Measurement Theory and Lab	p. PHYS 213/L or PHYS 113/L	2	F	
PHYS 331	Introduction to Modern Physics	p. PHYS 213/L or PHYS 113/L	3	F	
PHYS 341	Thermodynamics	p. MATH 225	2	F	
PHYS 343	Statistical Physics	p. MATH 321	2	F	
PHYS 451	Classical Mechanics	p. MATH 321 and 225	4	F	
Total Credit Hours			16		

Spring

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
EDFN 352/352L	Teaching and Learning II and Lab	p. EDFN 351	5		
PHYS 421	Electromagnetism	p. MATH 321 and 225	4	S	
PHYS 437	Foundations of Health Physics	p. MATH 123 and PHYS 213	3	S(even)	
SGR #4	Arts and Humanities (from two different disciplines or a sequence of a foreign language)	See list in catalog	3		
Total Credit Hours			15		

FOURTH YEAR

Fall

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
EDFN 453/453L	Teaching and Learning III and Lab	p. Teaching, Learning and Leadership department consent required.	7		
SEED 413	Science Methods		3		
SEED 450	Reading and Content Literacy	p. Teaching, Learning and Leadership department consent required.	2		
General Elective			3		
Total Credit Hours			15		

Spring

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
EDFN 454	Teaching and Learning IV	p. EDFN 453	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](#).

As part of this program, students must complete:

- a capstone course in the major (SEED 456)