South Dakota State University

Bachelor of Science
Major: Electrical Engineering
2025-2026 Sample 4-Year Plan
Total Degree Requirements: 130 credits

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

Advisor _____ **Minimum GPA** 2.0 **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
EE 101	Introduction to EE	p. Prior or concurrent completion of MATH 123 or Math Index score of 1300, c. EE 101L	1	Fall	
EE 101L	Intro to EE Lab	c. EE 101	1	Fall	
CHEM 112	General Chemistry I	p. MATH 114 or higher	3		
CHEM 112L	General Chemistry I Lab	p. MATH 114 or higher, c. CHEM 112	1		
CSC 150	Intro to Computer Science I		3		
ENGL 101	Composition I (SGR #1)	p. Placement	3		
MATH 123	Calculus I (SGR #5)	p. Placement	4		
		Total Credit Hours	**16**		

Spring

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
EE 216	Linear Circuits I	p. MATH 123 (>= C), c. MATH 125 and EE 216L	3	Spring	
EE 216L	Linear Circuits I Lab	c. EE 216	1	Spring	
MATH 125	Calculus II	p. MATH 123 (>= C)	4		
PHYS 207	Fundamentals of Physics I (SGR #6)	p. MATH 123	3		
PHYS 207L	Fundamentals of Physics I Lab (SGR #6)	p. MATH 123, c. PHYS 207	1		
SGR #2	Oral Communication (SGR #2)		3		
SGR #4	Arts & Humanities (SGR #4)		3		
		Total Credit Hours	**18**		

SECOND YEAR

Fall

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
EE 218	Linear Circuits II	p. MATH 125 (>= C) and EE 216 (>= C), c. MATH 321 and EE 218L	3	Fall	
EE 218L	Linear Circuits II Lab	c. EE 218	1	Fall	
MATH 225	Calculus III	p. MATH 125 (>= C)	4		
MATH 321	Differential Equations	p. MATH 125 (>= C)	3		
PHYS 209	Fundamentals of Physics II (SGR #6)	p. PHYS 207	3		
PHYS 209L	Fundamentals of Physics II Lab (SGR #6)	c. PHYS 209	1		
SGR #3	Social Sciences (SGR #3)	SGR #3 satisfied by coursework from 2 disciplines; one must fulfill civics requirement	3		
		Total Credit Hours	**18**		

Spring

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
EE 222	Energy Conversion	p. MATH 321 and EE 218 and 218L (>= C)	3	Spring	
EE 222L	Energy Conversion Lab	c. EE 222	1	Spring	
EE 245	Digital Systems	p. CSC 150 (>= C)	3	Spring	
EE 245L	Digital Systems Lab	c. EE 245	1	Spring	
EE 260	Electronic Materials and Devices	p. CHEM 112, PHYS 209 and EE 216 (>= C)	3	Spring	
ENGL 277	Tech Writing in Engineering (SGR #1)	p. ENGL 101	3		
MATH 331	Advanced Engineering Math	p. MATH 321	3		
		Total Credit Hours	**17**		

Information Subject to Change. This is not a contract.

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

THIRD YEAR

Fall

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
EE 316	Signals I	p. EE 222 (>= C)	3	Fall	
EE 320	Electronics I	p. EE 222 (>= C)	3	Fall	
EE 320L	Electronics I Lab	c. EE 320	1	Fall	
EE 345	Computer Organization	p. EE 245 (>= C)	3	Fall	
SGR #3	Social Sciences (SGR #3)	SGR #3 satisfied by coursework from 2 disciplines; one must fulfill civics requirement	3		
STAT 381	Probability and Statistics	p. MATH 125	3		
		Total Credit Hours	**16**		

Spring

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
EE 315	Linear Systems	p. EE 316	3	Spring	
EE 317	Signals II	p. EE 316	3	Spring	
EE 321	Electronics II	p. EE 320	3	Spring	
EE 321L	Electronics II Lab	c. EE 321	1	Spring	
EE 347	Micro System Design	p. EE 345	3	Spring	
EE 347L	Micro System Design Lab	c. EE 347	1	Spring	
EE ELEC	EE ELECTIVE 400 level	SEE EE ELECTIVE LIST	3		
		Total Credit Hours	**17**		

FOURTH YEAR

Fall

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
EE 385	Electromagnetics	p. EE 222, MATH 225	3	Fall	
EE 422	Engineering Economics and Management	c. EE 464	2	Fall	
EE 464	Senior Design Project I	p. ENGL 277, 317/321/347 and Labs, c. EE 422	2	Fall	
EE ELEC	EE ELECTIVE 400 level	SEE EE ELECTIVE LIST	5		
ME 314	Thermodynamics	p. MATH 125, PHYS 207	3		
		Total Credit Hours	**15**		

Spring

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
EE 465	Senior Design Project II	p. EE 464	3	Spring	
EE ELEC	EE ELECTIVE 400 level	SEE EE ELECTIVE LIST	7		
SGR #4	Arts & Humanities (SGR #4)		3		
		Total Credit Hours	**13**		

COMMENTS/NOTES

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