



Bachelor of Science

Major: Electrical Engineering

2023-2024 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
CSC 150	Intro to Computer Science I		3		
EE 101L	Intro to EE Lab		1	F	
ENGL 101	Composition I (SGR #1)	p. Placement	3		
GE 101	Introduction to Engineering and Technical Professions		1		
MATH 123	Calculus I (SGR #5)	p. Placement	4		
PHYS 207	Fundamentals of Physics I (SGR #6)	c. MATH 123	3		
PHYS 207L	Fundamentals of Physics I Lab (SGR #6)	c. PHYS 207	1		
Total Credit Hours			16		

Spring

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
CMST 101	Foundations of Communication (SGR #2)		3		
EE 216	Linear Circuits I	p. MATH 123 (\geq C), co-req MATH 125	3	S	
EE 216L	Linear Circuits I Lab	p. MATH 123 (\geq C), co-req MATH 125	1	S	
MATH 125	Calculus II	p. MATH 123 (\geq C)	4		
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 #4	Arts & Humanities/Diversity (SGR #4)		3		
Total Credit Hours			18		

Second Year

Fall

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
CHEM 112	General Chemistry I	p. MATH 114 or higher	3		
CHEM 112L	General Chemistry I Lab		1		
EE 218	Linear Circuits II	p. MATH 125 and EE 216 (\geq C), Co req MATH 321	3	F	
EE 218L	Linear Circuits II Lab	c. EE 218	1	F	
MATH 225	Calculus III	p. MATH 125 (\geq C)	4		
MATH 321	Differential Equations	p. MATH 125 (\geq C)	3		
SGR #3	Social Sciences/Diversity (SGR #3)		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 (\geq C)	3	S	
EE 222L	Energy Conversion Lab	c. EE 222	1	S	
EE 245	Digital Systems	p. CSC 150 (\geq C) and EE 216 (\geq C)	3	S	
EE 245L	Digital Systems Lab	c. EE 245	1	S	
EE 260	Electronic Materials	CHEM 112, PHYS 213 and EE 216 (\geq C)	3	S	
ENGL 277	Tech Writing in Engineering (SGR #1)	p. ENGL 101, GE 101	3		
MATH 331	Advanced Engineering Math	p. MATH 321	3		
Total Credit Hours			17		



Third Year

Fall

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
EE 316	Signals I	p. EE 222 (\geq C)	3	F	
EE 320	Electronics I	p. EE 222 (\geq C)	3	F	
EE 320L	Electronics I Lab	c. EE 320	1	F	
EE 345	Computer Organization	p. EE 245 (\geq C)	3	F	
EE 360	Electronic Devices	p. EE 260 (\geq C)	3	F	
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	S	
EE 317	Signals II	p. EE 316	3	S	
EE 321	Electronics II	p. EE 320	3	S	
EE 321L	Electronics II Lab	c. EE 321	1	S	
EE 347	Micro System Design	p. EE 345	3	S	
EE 347L	Micro System Design Lab	c. EE 347	1	S	
SGR #3	Social Sciences/Diversity (SGR #3)		3		
Total Credit Hours			17		

Fourth Year

Fall

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
EE 385	Electromagnetics	p. EE 222 (\geq C), MATH 225	4	F	
EE 422	Eng Econ and Management	Co-Req EE 464	2	F	
EE 464	Senior Design Project I	p. ENGL 277, 317/321/347 and Labs, Co-Req EE 422	2	F	
EE ELEC	EE ELECTIVE 400 level	SEE EE ELECTIVE LIST	5		
EE ELEC	EE ELECTIVE 400 level	SEE EE ELECTIVE LIST			
EE ELEC	EE ELECTIVE 400 level	SEE EE ELECTIVE LIST			
EE ELEC	EE ELECTIVE 400 level	SEE EE ELECTIVE LIST			
EE ELEC	EE ELECTIVE 400 level	SEE EE ELECTIVE LIST			
ME 314	Thermodynamics	p. MATH 125, PHYS 211	3		
Total Credit Hours			16		

Spring

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
EE 465	Senior Design Project II	p. EE 464	2	S	
EE ELEC	EE ELECTIVE 400 level	SEE EE ELECTIVE LIST	7		
EE ELEC	EE ELECTIVE 400 level	SEE EE ELECTIVE LIST			
EE ELEC	EE ELECTIVE 400 level	SEE EE ELECTIVE LIST			
EE ELEC	EE ELECTIVE 400 level	SEE EE ELECTIVE LIST			
EE ELEC	EE ELECTIVE 400 level	SEE EE ELECTIVE LIST			
EE ELEC	EE ELECTIVE 400 level	SEE EE ELECTIVE LIST			
SGR #4	Arts & Humanities/Diversity (SGR #4)		3		
Total Credit Hours			12		

Comments/Notes

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