



**Bachelor of Science
Major: Electrical Engineering
2018-2019 Sample 4-Year Plan**

Total Degree Requirements: 120 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 | p. MATH 102 or higher | 3 | | |
| EE 101L | Intro to EE Lab | | 1 | F | |
| ENGL 101 | Composition I (SGR #1) | p. Placement | 3 | | |
| GE 101 | Introduction to Eng and Tech. Professions | | 1 | | |
| MATH 123 | Calculus I (SGR #5) | p. Placement | 4 | | |
| PHYS 211/L | University Physics I and Lab (SGR #6) | co-req MATH 123 | 4 | | |
| Total Credit Hours | | | 16 | | |

Spring

| Prefix + Number | Course Title | Prerequisites/Comments | Credits | Semester | Grade |
|---------------------------|--|--|---------|----------|-------|
| 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 213/L | University Physics II and Lab (SGR #6) | p. PHYS 211 | 4 | | |
| SGR #4 | Arts & Humanities/Diversity (SGR #4) | | 3 | | |
| SPCM 101 | Fundamentals of Speech (SGR #2) | | 3 | | |
| Total Credit Hours | | | 18 | | |

Second Year

Fall

| Prefix + Number | Course Title | Prerequisites/Comments | Credits | Semester | Grade |
|---------------------------|------------------------------------|--|---------|----------|-------|
| CHEM 112/L | General Chemistry I and Lab | p. MATH 102 or higher | 4 | | |
| EE 218 | Linear Circuits II | p. EE 216 (\geq C), Co req MATH 321 | 3 | F | |
| EE 218L | Linear Circuits II Lab | p. EE 216 (\geq C), Co req MATH 321 | 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. EE 218 (\geq C) | 3 | S | |
| EE 222L | Energy Conversion Lab | p. EE 218 (\geq C) | 1 | S | |
| EE 245 | Digital Systems | p. CSC 150 (\geq C) and EE 216 (\geq C) | 3 | S | |
| EE 245L | Digital Systems Lab | p. CSC 150 (\geq C) and EE 216 (\geq C) | 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 | | |

Information Subject to Change. This is not a contract.

p. = Course Prerequisite
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 (\geq C) | 3 | F | |
| EE 320 | Electronics I | p. EE 222 (\geq C) | 3 | F | |
| EE 320L | Electronics I Lab | p. EE 222 (\geq C) | 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 | p. EE 320 | 1 | S | |
| EE 347 | Micro System Design | p. EE 345 | 3 | S | |
| EE 347L | Micro System Design Lab | p. EE 345 | 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 EE464 | 2 | F | |
| EE 464 | Senior Design Project I | p. ENGL 277, 317/321/347 and Labs, Co-Req EE422 | 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](#).