

**Bachelor of Science in Engineering
Four-Year Course Plan (2018-19)**

| FIRST-YEAR | FALL | | SPRING | |
|-----------------------|--|-----------------------|---|---|
| | MATH 170: Calculus I (FM) | 4 | MATH 175: Calculus II | 4 |
| | ENGL 101: Introduction to College Writing | 3 | UF 100: Intellectual Foundations | 3 |
| | CHEM 111/111L: General Chemistry I & Lab (FN) | 4 | PHYS 211/211L: Physics II with Calculus and Lab | 5 |
| | ENGR 120: Intro to Engineering (3 credits) or ENGR 130: Intro to Engineering Applications (4 credits) (FN) | 3-4 | ME 105 Mechanical Engineering Graphics* | 3 |
| Semester Total | 14-15 | Semester Total | 14-15 | |

* May substitute CE 286 Introduction to AutoCAD for Civil Engineers (2 credits)

| SOPHOMORE | FALL | | SPRING | |
|-----------------------|--|-----------------------|--|-----|
| | MATH 275: Multivariable and Vector Calculus | 4 | ENGR 280: Engineering Design I | 3 |
| | ENGR 210: Engineering Statics | 3 | MATH 333: Differential Equations with Matrix Theory | 4 |
| | PHYS 212/212L: Physics II with Calculus and Lab (5 credits)* | 5 | CS 117: C++ for Engineers (3 credits) or CS 121: Intro to CS (4 credits) | 3-4 |
| | ENGL 102: College Writing and Research | 3 | Social Science (E+ Pathway related choice recommended) (FS) | 3 |
| | | | UF 200: Civic & Ethical Foundations | 3 |
| Semester Total | 15-16 | Semester Total | 16-17 | |

** May substitute CHEM 112/112L (4 credits), however, note that PHYS 212/212L is required for ECE 210. CHEM 112/112L may be required for other upper division engineering electives. Please consult with an advisor regarding your degree goals.

| JUNIOR | FALL | | SPRING | |
|-----------------------|--|-----------------------|--|-----|
| | ENGR 240: Electrical and Electronic Circuits or ECE 210: Introduction to Electrical Circuits I | 3 | ENGR 380: Engineering Design II (FC) | 3 |
| | MATH 360: Engineering Statistics or MATH 361: Probability and Statistics I | 3 | Engineering Elective | 3 |
| | Social Science (E+ Pathway related choice recommended) (FS) | 3 | E+ Pathway Elective | 3 |
| | MSE 245/245L: Introduction to Material Science Engineering | 4 | Engineering Elective (upper division) | 3 |
| | E+ Pathway Elective | 3 | Literature & Humanities (E+ Pathway related choice recommended) (FH) | 3-4 |
| Semester Total | 15 | Semester Total | 15-16 | |

| SENIOR | FALL | | SPRING | |
|-----------------------|---|-----------------------|---------------------------------------|---|
| | E+ Pathway Electives | 9 | ENGR 480: Engineering Design III (FF) | 4 |
| | Engineering Elective (upper division) | 3 | Engineering Elective (upper division) | 9 |
| | Visual and Performing Arts (E+ Pathway related choice) (FA) | 3 | E+ Pathway Elective | 3 |
| Semester Total | 15 | Semester Total | 16 | |

TOTAL PROGRAM CREDITS: **120-125**