# B.S. Electrical Engineering

## 2018-2019 Major Map for First Time College Student

### Academic policies as well as degree and major-specific requirements can be found at [catalog.siu.edu](http://catalog.siu.edu). All students are encouraged to meet with the academic advisor on a regular basis to ensure timely progress to degree.

University Core Curriculum (UCC) is satisfied with the transfer of an Associate of Art or Sciences (AA or AS) degree or the completion of the Illinois Articulation Initiative-General Education Core Curriculum (IAI-GECC) from an Illinois community college.

### Course and Title | Sem. Hours | Min. Grade | Course and Title | Sem. Hours | Min. Grade
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**YEAR ONE – Semester 1**

ECE 222, Intro to Digital Computation | 3.0 |  
ENGL 101, Composition I | 3.0 | C  
MATH 150, Calculus I | 4.0 | C  
UNIV 101U, Saluki Success | 1.0 |  
CMST 101, Intro Oral Communication | 3.0 |  
**Total** | 14.0 |  

**YEAR TWO – Semester 1**

MATH 251, Calculus III | 3.0 |  
PHYS 205B/255B, University Physics/Lab | 4.0 |  
ECE 235/235L, Electric Circuits I/Lab | 4.0 | C  
ECE 315, Math Methods | 4.0 | C  
**Total** | 15.0 |  

**YEAR THREE – Semester 1**

ECE 355/355L, Signals & Systems/Lab | 4.0 |  
ECE 385/385L, Electro Energy Conversion/Lab | 4.0 |  
ECE 345/345L, Electronics/Lab | 4.0 |  
ECON 240/241, Intro Microecon or Macroecon | 3.0 |  
**Total** | 15.0 |  

**YEAR FOUR – Semester 1**

ECE 495E, EE Senior Design I | 3.0 |  
ENGR 304I, Social History American Tech | 3.0 |  
Technical Electives | 3.0 |  
Technical Electives | 4.0 |  
**Total** | 17.0 |  

**YEAR ONE – Semester 2**

MATH 250, Calculus II | 4.0 | C  
ENGL 102, Composition II | 3.0 | C  
PHYS 205A/255A, University Physics/Lab | 4.0 | C  
Robot/Lab | 4.0 |  
**Total** | 15.0 |  

**YEAR TWO – Semester 2**

MATH 305, Intro Differential Equations | 3.0 |  
PHIL 105, Elementary Logic | 3.0 |  
ECE 336, Electric Circuits II | 3.0 |  
ECE 327/327L, Dig Circ Desn HDL/Lab | 4.0 |  
ECE 375/375L, Intro Electro Fields/Lab | 4.0 |  
**Total** | 17.0 |  

**YEAR THREE – Semester 2**

BIOL 202, Human Genetics & Health | 2.0 |  
ECE 356/356L, Systems & Control/Lab | 4.0 |  
Technical Electives | 4.0 |  
PHIL 104, Ethics | 3.0 |  
UCC Social Science | 3.0 |  
**Total** | 16.0 |  

**YEAR FOUR – Semester 2**

ECE 495D, ECE Senior Design II | 3.0 |  
Technical Electives | 4.0 |  
Technical Electives | 3.0 |  
Technical Electives | 4.0 |  
UCC Fine Arts | 3.0 |  
**Total** | 17.0 |  

**Total Hours: 126**