### Four-Year Academic Plan

**Computer Engineering**

<table>
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<tr>
<th>FRESHMAN</th>
<th>FALL</th>
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| **CS 120** | Computer Science I  
MATH 143, CS 112 or sufficient test scores | **ECE 101** | Foundations of Electrical and Computer Engineering (spring only)  
MATH 143 or MATH 170 |
| ENGL 102 | College Writing and Rhetoric  
English 101 or sufficient test scores | **ECE 101** |  |
| *MATH 170* | Calculus I  
C or better in MATH 143 and 144 or sufficient test scores | **ECE 101** |  |
| ISEM 101 | Integrated Seminar | **ECE 101** |  |
| *CHEM 111/111L* | General Chemistry I  
C or better in MATH 170 or sufficient test scores | **ECE 101** |  |

**Total Credits**: 18

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<th>SOPHOMORE</th>
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| **ECE 210/211** | Electrical Circuits I with Lab  
MATH 175, MATH 310, PHYS 212 | **ECE 101** |  |
| **MATH 310** | Ordinary Differential Equations  
MATH 175 (MATH 275 recommended) | **ECE 101** |  |
| **PHYS 212/212L** | Engineering Physics II with Lab  
MATH 175 | **ECE 101** |  |
| COMM 101 | Fundamentals of Public Speaking | **ECE 101** |  |
| ELECTIVE | Humanities/Social Science Elective | **ECE 101** |  |

**Total Credits**: 16

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<th>JUNIOR</th>
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| CS 270 | System Software  
CS 121 | **CS 240** | Computer Operating Systems  
CS 121, CS 150, CS 270 |
| CS 210 | Programming Languages  
CS 121 | **ECE 350/351** | Signals and Systems I with Lab  
ECE 212, MATH 310 |
| ECE 310/311 | Microelectronics I with Lab  
ECE 212/213 | **ECE 440** | Digital Systems Engineering  
ECE 240, ECE 241 or permission |
| ECE 340/341 | Microcontrollers with Lab  
ECE 212/213, ECE 240/241, and CS 112 or CS 120 | **ENGL 317** | Technical Writing  
ENGL 102, Junior standing or permission |
| STAT 301 | Probability & Statistics  
MATH 175 | **ISEM 301** | Integrated Seminar  
ENGL 102, Sophomore standing |

**Total Credits**: 17

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<th>SENIOR</th>
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| ECE 482 | Computer Engineering Senior Design I  
CS 240, CS 270, ECE 240/241, ECE 310/311, ECE 340/341, ECE 350/351 or permission, ECE 440, STAT 301 | **ECE 483** | Computer Engineering Senior Design II  
ECE 440, ECE 482, STAT 301 or permission |
| ECE 491 | Senior Seminar (fall only) | **ECE 483** |  |
| † ELECTIVE | Technical Elective | **ECE 483** |  |
| † ELECTIVE | Technical Elective | **ECE 483** |  |
| ELECTIVE | Humanities/Social Science Elective | **ECE 483** |  |
| ELECTIVE | Humanities/Social Science Elective | **ECE 483** |  |

**Total Credits**: 14

† **TECHNICAL ELECTIVES**: 15 credits of upper-division ECE or CS courses required.
Develop innovative components and systems to advance computer technology in everything from medical equipment and automobiles to power grids and mobile devices. Computer engineers focus on the hardware - software interface.

ABOUT YOUR DEGREE PATH

Computer Engineering majors take introductory courses in physics, mathematics and computer science to develop a solid foundation on these fundamentals during their first year.

Sophomore year introduces you to more advanced courses in computer science, computer engineering and electrical circuits. Develop your individual interests through the selection of technical electives.

Junior year provides breadth in electrical and computer engineering and computer science, including electronics, signals and systems, computer architecture, software engineering and operating systems.

Seniors participate in our nationally-recognized Senior Capstone Design Program, where students learn to design, test and build a computer engineering system.

MATCH YOUR INTERESTS

- Computers
- Computing Hardware
- Medical Equipment
- Coding
- Electronic Circuits
- Microchips and Microcircuits
- Automobiles
- Communications Systems
- Power Systems

YOUR DEGREE IS ACCREDITED

Our undergraduate Computer Engineering program is accredited by the Engineering Accreditation Commission of ABET, www.abet.org

DEPARTMENT OF ELECTRICAL & COMPUTER ENGINEERING
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