

4-Year Course Plan with Co-Op Experience for Computer Science & Engineering

| Fall | Winter | Spring |
|---|--|---------------------------|
| University Core (Critical Thinking & Writing 1) | University Core (Critical Thinking & Writing 2) | COEN 19 - Discrete Math |
| MATH 11 - Calculus I | MATH 12 - Calculus II | MATH 13 - Calculus III |
| CHEM 11 - Chemistry I | PHYS 31 - Physics I | PHYS 32 - Physics II |
| COEN 10 - Introduction to Programming ¹ | COEN 11 - Advanced Programming | COEN 12 - Data Structures |
| ENGR 1 - Introduction to Engineering (2 units) | | |

| Fall | Winter | Spring |
|---|--|---|
| University Core (Cultures & Ideas 1) | University Core (Cultures & Ideas 2) | University Core (Religion, Theology & Culture 1) |
| MATH 14 - Calculus IV | AMTH 106 - Differential Equations | MATH 53 - Linear Algebra |
| PHYS 33 - Physics III | AMTH 108 - Probability and Statistics | ELEN 50 - Electric Circuits |
| COEN 21 - Logic Design | COEN 79 - OO Programming and Advanced Data Structures | COEN 20 - Embedded Systems |

| Fall | Winter | Spring |
|-------------------------------|----------------------------------|---|
| University Core | University Core | Co-op Experience: 6 months (Spring and Summer) |
| ELEN 153 - Digital IC Design | COEN 171 - Programming Languages | |
| COEN 177 - Operating Systems | COEN 146 - Computer Networks | |
| Computer Engineering Elective | Computer Engineering Elective | |

| Fall | Winter | Spring |
|--|--|---|
| University Core | University Core | University Core |
| ENGL 181 - Engineering Communications | Computer Engineering Elective | COEN 179 - Algorithms |
| COEN 174 - Software Engineering | COEN 175 - Compilers | COEN 122 - Computer Architecture |
| COEN 194 - Senior Design I (2 units) | COEN 195 - Senior Design II (2 units) | COEN 196 - Senior Design III (2 units) |

Humanities & Social Science
 Math & Science
 Engineering
 Other

¹Students with previous programming experience, as determined by advanced placement credit or the department's programming diagnostic exam, may replace COEN 10 with a free elective.