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

### Fall | Winter | Spring
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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 Programming¹ | COEN 11 - Advanced Programming | COEN 12 - Data Structures
ENGR 1 - Introduction to Engineering (2 units) | | |

### Fall | Winter | Spring
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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
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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
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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)

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.

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Last modified: 5/10/2016