## Sample 4-Year Course Plan for

 Computer Science \& Engineering| Fall | Winter | Spring |
| :--- | :--- | :--- |
| University Core <br> (Critical Thinking \& Writing 1) | University Core <br> (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 <br> Programming |  |  |
| ENGR 1 \& 1L - Introduction to Engineering (1 unit each to be taken in any order during the first year) |  |  |


| Fall | Winter | Spring |
| :--- | :--- | :--- |
| University Core <br> (Cultures \& Ideas 1) | University Core <br> (Cultures \& Ideas 2) | University Core $^{2}$ |
| 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 79-00 Programming and Advanced Data Structures (can be taken in any order) |  |  |


| Fall | Winter | Spring |
| :--- | :--- | :--- |
| University Core $^{3}$ | University Core | University Core |
| COEN 171 - Programming Languages | ELEN 153 - Digital IC Design | ENGL 181 - Engineering <br> Communications |
| Computer Engineering Elective | Computer Engineering Elective | Computer Engineering Elective |
| COEN 146 - Computer Networks / COEN 177 - Operating Systems / |  |  |
| COEN 179 - Algorithms (can be taken in any order) |  |  |


| Fall | Winter | Spring |
| :--- | :--- | :--- |
| University Core | University Core | Educational Enrichment Elective |
| Educational Enrichment Elective | Educational Enrichment Elective | Educational Enrichment Elective |
| COEN 174 - Software Engineering | COEN 175 - Compilers | COEN 122 - Computer Architecture |
| COEN 194 - Senior Design I <br> (2 units) | COEN 195 - Senior Design II <br> (2 units) | COEN 196 - Senior Design III <br> $(2$ units) |
| $\square$ | $\square$ Humanities \& Social Science | $\square$ Math \& Science |

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[^0]:    ${ }^{1}$ Students with previous programming experience may replace COEN 10 with a free elective.
    ${ }^{2}$ An RTC 1 course such as ENGR 16 is recommended during the sophomore year.
    ${ }^{3}$ An Ethics course such as ENGR 19 is recommended during the junior year.

