

4-Year Course Plan 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	University Core
ELEN 153 - Digital IC Design	COEN 171 - Programming Languages	ENGL 181 - Engineering Communications
COEN 177 - Operating Systems	COEN 146 - Computer Networks	COEN 179 - Algorithms
Computer Engineering Elective	Computer Engineering Elective	Computer Engineering Elective

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 (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.