BACHELOR OF SCIENCE IN COMPUTER ENGINEERING
CURRICULUM OUTLINE - CLASS OF 2021, 2022, 2023, 2024
Sample Only – Actual Curriculum Sequence May Deviate from Sample

FALL SPRING SUMMER 1 SUMMER 2

Year 1
MATH1341 Calculus 1 for Engrs. 4 MATH1342 Calculus 2 for Engrs. 4
CHEM1151 General Chem. for Engrs. 4 PHYS1151 Physics 1 for Engrs. 3
CHEM1153 Reactation for CHEM1151 0 PHYS1152 Physics 1 Lab 1
GE1300 Intro to Eng'g 1 PHYS1153 ILS for PHYS1151 1
GE1301 Cornerstone of Engineering 1 4 GE1302 Cornerstone of Engineering 2 4
ENGWK1113 College Writing 4 Elective General Elective 4

Year 2 AA
MATH2341 Diff. Eq./Lin. Alg. 4 CS1800 Discrete Structures 4
PHYS1156 Physics 2 for Engrs. 3 CS1802 Recitation for CS1800 1
PHYS1156 Physics 2 Lab 1 ENCP2000 Intro to Eng'. Coop 1
PHYS1157 ILS for PHYS1156 1 PHYS12150 Circuits/Signals: Biomed Apps 5
EECE2140 Embedded Design: Enabling Robotics 4 EECExx EE Fundamentals 4/5
Elective General Elective 4 Elective General Elective 4

Year 2 BB
MATH2341 Diff. Eq./Lin. Alg. 4 CS1800 Discrete Structures 4
PHYS1156 Physics 2 for Engrs. 3 CS1802 Recitation for CS1800 1
PHYS1156 Physics 2 Lab 1 ENCP2000 Intro to Eng'. Coop 1
PHYS1157 ILS for PHYS1156 1 PHYS12150 Circuits/Signals: Biomed Apps 5
EECE2140 Embedded Design: Enabling Robotics 4 EECExx EE Fundamentals 4/5
Elective General Elective 4 Elective General Elective 4

Year 3 AA
CS1800 Discrete Structures 4 CS1802 Recitation for CS1800 1
EECE2150 Circuits/Signals: Biomed Apps 5 EECE2160 Embedded Design: Enabling Robotics 4
EECExxxx CE Fundamentals 4/5 EECExxxx CE Fundamentals 4/5
Elective General Elective 4

Year 3 BB
CS1800 Discrete Structures 4 CS1802 Recitation for CS1800 1
EECE2150 Circuits/Signals: Biomed Apps 5 EECE2160 Embedded Design: Enabling Robotics 4
EECExxxx CE Fundamentals 4/5 EECExxxx CE Fundamentals 4/5
Elective General Elective 4

Year 4 AA
EECExxxx CE Fundamentals 4/5 EECExxxx EE Fundamentals 4/5
EECExxxx EE Fundamentals 4/5 EECExxxx EE Fundamentals 4/5
Elective General Elective 4 Elective General Elective 4
EECP3000 Prof. Issues in Eng’. 1

Year 4 BB
EECExxxx CE Fundamentals 4/5 EECExxxx EE Fundamentals 4/5
EECExxxx EE Fundamentals 4/5 EECExxxx EE Fundamentals 4/5
Elective General Elective 4 Elective General Elective 4
EECP3000 Prof. Issues in Eng’. 1

Year 5 AA
EECE2170 Capstone Design 2 4 EECE4790 ECE Tech Elective 3 4
EECExxxx EE Tech Electro 2 4 EECE3081 Probability 4
EECP3000 Prof. Issues in Eng’. 1

Year 5 BB
EECE2170 Capstone Design 2 4 EECE4790 ECE Tech Elective 3 4
MATH3081 Probability 4 EECE3081 Probability 4
EECExxxx EE Tech Electro 2 4 EECExxxx EE Tech Electro 2 4
EECP3000 Prof. Issues in Eng’. 1

The Capstone Design Courses are taken as follows: (EECE4790 - Summer 1 and EECE4792 - Spring) OR (EECE4790 - Summer 2 and EECE4792 - Fall)
* ENGW3315 is an acceptable substitution for engineering majors.
NUpath requirements, Interpreting Culture (IC), Societies and Institutions (SI) and Differences and Diversity (DD) are not explicitly satisfied by required engineering courses. Students are responsible for satisfying these requirements, and if these are not fulfilled in engineering courses, should use General Electives to do so. General Electives are academic, non-remedial, non-repetitive courses.

7 Required General Electives
1 Required EE Fundamentals: EECE4212/4213 - Fundamentals Electronics 1 & lab OR EECE2520 - Fundamentals Linear Systems OR EECE2530/2531 - Fundamentals Electromagnetics & lab
(EE Fundamentals not taken to meet the above requirement may also be taken as a technical elective)

Technical Elective Requirements: 4 EECE technical electives:
(EECE2412-2530),EECE2750, EECE3154 (EECE3324-EECE4698), (EECE4491-EECE4493), (EECE5115-EECE5698), GE4608, ENGR5670
2 CS courses from the following approved list may be taken toward the EECE technical elective requirement:
Approved List: CCY550 (CS3300-C53500), (CS3340-CS3800), (CS4100-C4770), CS4850, (IS4200 - IS4700)
Note: AP credit for MATH2320 will substitute for MATH3081 requirement.
Please check with your advisor when taking a general elective in overlapping disciplines:
Find your Academic Advisor

The registrar’s website provides a listing of degree requirements and the DARS system provides a degree audit utility for students.