Bachelor of Science Degree in Electrical Engineering

First Year Courses (Common to all EE and CPE)
- CHEM 1035 General Chemistry
- CHEM 1036 General Chemistry Lab
- ENGL 1105 First-Year Writing
- ENGL 1106 First-Year Writing
- MATH 1225 Calculus of a Single Variable
- PHYS 2305 Foundations of Physics I
- ENGE 1216 Foundations of Engineering
- ECE 2574 Data Structures Lab
- ECE 2504 Intro to Computer Engineering
- ECE 2014 Engineering Economy
- ENGL 3764 Technical Writing
- STAT 4714 Probability and Statistics for EE Engineering and Science Elective
- Free electives (credits will vary)

Sophomore Level ECE Courses (Common to all EE and CPE)
- ECE 2014 Eng Prof in ECE
- ECE 2004 Circuit Analysis
- ECE 2074 Circuit Analysis Lab
- ECE 2504 Intro to Computer Engineering
- ECE 2224 Electronics
- ECE 2274 Electronic Networks Lab
- ECE 2534 Microcontrlr & Interfacing
- ECE 2704 Signals and Systems
- MATH 1225 Calculus of a Single Variable
- MATH 1226 Calculus of a Single Variable
- PHYS 2305 Foundations of Physics I
- ENGE 1216 Foundations of Engineering
- ECE 1574 Engineering Problem Solving w/ C++
- MATH 1114 or 2114 Linear Algebra

Area 1: ENGL 1105 & ENGL 1106
Area 2: Must choose 6c from approved list
Area 3: Must choose 6c from approved list
Area 4: PHYS 2305 & PHYS 2306
Area 5: MATH 1225 & MATH 1226
Area 6: Must choose 1c from approved list
Area 7: Must choose 3c from approved list

Other Courses Common to EE major options
- ECE 3004 AC Circuit Analysis
- ECE 3074 AC Circuit Analysis Lab
- ECE 3105 Electromagnetic Fields
- EE Degree/Electrical Engineering
  - EE 3106 Electromagnetic Fields
  - EE 3304 Analog Electronics
  - EE 3304 Intro to Power Sys
  - EE 3354 Power Lab
  - ECE 3614 Intro to Comm Sys
  - ECE 4174 Electrncs Lab
  - ECE 4205, ECE 4220, ECE 4644, ECE 4606 (choose 2 courses from: ECE 4154, ECE 4194, ECE 4644, ECE 4164)
  - Math Elective from list

EE Degree/Comm & Networking
- ECE 3704 Cont & Disc Sys
- ECE 3614 Intro to Comm Sys
- ECE 4644 Anal & Dig Comm Lab
- ECE 4624 DSP & Filter Des
- ECE 4614 Telecomm Networks
- Math Elective from list

EE Degree/Controls, Robotics & Autonomy
- ECE 2574 Data Struc & Alg
- ECE 3704 Cont & Disc Sys
- ECE 3714 Intro to Control Sys
- MATH 3144 Linear Alg I
- MATH 4144 Linear Alg II
- Controls, Robotics & Aut Elective

EE Degree/Energy & Power Electronics Sys
- ECE 3704 Cont & Disc Sys
- ECE 3204 Analog Electronics
- ECE 3304 Intro to Power
- ECE 3354 Power Lab
- ECE 4224 Power Electrons
- ECE 4334 Power Sys Anal & Ctrl
- Math Elective from list

EE Degree/Micro-Nanosystems
- ECE 3204 Analog Electronics
- ECE 3274 Elec Circ Lab II
- ECE 3214 Semicond Device Fundmtnts
- ECE 3614 Intro Comm Sys
- Math Elective from list

EE Degree/Photonics
- ECE 3204 Analog Electronics
- ECE 3214 Semicond Device Fundmtnts
- ECE 3614 Intro Comm Sys
- Math Elective from list

EE Degree/Microwave & Microwave Electronics
- ECE 3204 Analog Electronics
- ECE 3214 Semicond Device Fundmtnts
- ECE 3614 Intro Comm Sys
- Math Elective from list

EE Degree/Space Systems & Microwave
- ECE 3104 EM Fields
- ECE 3104 Intro Space Sys
- ECE 3154 Space Sys Lab
- ECE 3614 Intro Comm Sys
- ECE 4134 Photonics
- Math Elective from list

EE Major Design Experience (common to all EE)
- ECE 4805 Senior Design Project
- ECE 4806 Senior Design Project

Curriculum for Liberal Education (Common to all EE and CPE)
Area 1: ENGL 1105 & ENGL 1106
Area 2: Must choose 6c from approved list
Area 3: Must choose 6c from approved list
Area 4: PHYS 2305 & PHYS 2306
Area 5: MATH 1225 & MATH 1226
Area 6: Must choose 1c from approved list
Area 7: Must choose 3c from approved list

Other Courses Common to all EE and CPE
- ISE 2014 Engineering Economy
- MATH 2214 Differential Equations
- MATH 2204 Introduction to Multivariable Calculus
- PHYS 2306 Foundations of Physics I
- ENGL 3764 Technical Writing
- STAT 4714 Probability and Statistics for EE Engineering and Science Elective
- Free electives (credits will vary)

Students should consult the 2020 checksheet for the recommended scheduling of classes.