Elective Requirements

In addition to the above required courses, majors must complete four additional elective courses: three elective courses from the list below – at least two must be from one of the depth sequence tracks listed; plus one comprehensive senior design project course. Certain graduate-level courses can also be used to fulfill an elective requirement with departmental approval.

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### Electronics/Optic

**Electronics Track:**
- EE 130 Optoelect. & Photonics
- EE 136 Engr. Electromagnetics
- EE VLSI Design
- EE 178 Device Electronics
- ENGR 147 Computational Methods & Applications
- CE 121/L Microproc. Sys. Design
- CE 172/L Linear Nonlin. Circuits
- CE 173/L High Speed Digit. Design
- ME/EE 129 Integrated Circ. Proc. & Design (taken at SJSU)

**Communications Track:**
- EE 151 Communications Syst
- ENGR 147 Computational Methods & Appl.
- CMPE 150 Computer Networks

**Signals, Systems & Control Track:**
- EE 153 Digital Signal Processing
- EE Telemetry
- EE Instrumentation
- EE 154 Feedback Control Syst.
- ENGR 147 Computational Methods & Appl.

**SENIOR DESIGN PROJECT**
- CMPE 123/L* AdvMicro Sys
- CMPE 126/L* AdvLogic Design
- EE 125 & 126 Hardware Design
- EE 127 & 128 Design Project
- EE 195 Senior Thesis

*Course Prerequisite: CMPE 121/L

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### Senior Projects

Encompass an in-depth project requiring the students to call acquired throughout their undergraduate studies, including analysis, design, testing, and documentation. Students must complete one project course.