

Electrical and Computer Engineering

Electrical Engineering Option (2010-11)

Below is the *advised sequencing* of courses for this degree,
the official degree requirements are found in the University General Catalog.

| FRESHMAN YEAR | | | | SOPHOMORE YEAR | | | |
|------------------------------|-------|-----------------|-------|----------------|-------|-----------------|-------|
| First Semester | | Second Semester | | First Semester | | Second Semester | |
| Course | Units | Course | Units | Course | Units | Course | Units |
| ENGR 102 | 3 | MATH 129 | 3 | ECE 274 | 4 | ECE 220 | 5 |
| MATH 125 or 124 [#] | 3/5 | PHYS 141 | 4 | MATH 223 | 4 | MATH 254 | 3 |
| CHEM 151 | 4 | ENGL 102 | 3 | PHYS 241 | 4 | PHYS 143 | 2 |
| ENGL 101 | 3 | ECE 175 | 3 | ECE 2XXa | 3 | MATH 243 | 3 |
| Tier 1 INDV* | 3 | Tier 1 TRAD* | | Tier 2 INDV* | 3 | Tier 1 INDV* | 3 |
| TOTAL | 16/18 | TOTAL | 17 | TOTAL | 18 | TOTAL | 16 |

| JUNIOR YEAR | | | | SENIOR YEAR | | | |
|----------------|-------|-----------------|-------|----------------|-------|-----------------|-------|
| First Semester | | Second Semester | | First Semester | | Second Semester | |
| Course | Units | Course | Units | Course | Units | Course | Units |
| ECE 320a | 3 | ECE 304 | 4 | ENGR 498a | 3 | ENGR 498b | 3 |
| ECE 351a | 4 | or ECE 3XX | | Tech Elect** | 12 | Tech Elect** | 9 |
| ECE 372 | 4 | ECE 340 | 3 | | | Tier 2 Art/Hum* | 3 |
| ECE 3XX | 4 | ECE 381 | 4 | | | | |
| | | Tier 1 TRAD* | 3 | | | | |
| | | ECE 352 | 3 | | | | |
| TOTAL | 15 | TOTAL | 17 | TOTAL | 18 | TOTAL | 15 |

TOTAL UNITS = 128

MATH 124 is a 5 unit version of MATH 125. Students taking MATH 124 should consider delaying the Tier 1 INDV course to maintain a reasonable academic load.

* INDV/TRAD/Art/Hum courses must meet University general education requirements. One course must be recognized by the University as focusing on non-western culture, race, gender or ethnicity. TRAD 101 satisfies this requirement.

** 21 units of technical electives are required. These consist of ECE 369 and other upper-division courses in engineering, math, or science, chosen in consultation with a faculty advisor. 15 units must be in ECE courses.