

BS Degree with Double Major: Electrical Engineering/Computer Engineering

Requirements to earn a Bachelor of Science degree with a double major in "Electrical Engineering and Computer Engineering" or "Computer Engineering and Electrical Engineering" are the same no matter what you planned on majoring in first, but the following guides were created to make it easy for students who are asking what is required to "add" on the additional major.

Advisement Summary for EE Students:

Follow your requirements for EE major including following electives:

- CSE 321 (TE in EE, 4 credits) – fall only
- CSE 341 (TE in EE, 4 credits) – fall and spring
- CSE 442 (TE in EE, 4 credits) – fall only
- CSE 453 (TE in EE, 4 credits) – spring only
- MTH 309 (TE in EE, 4 credits) – fall and spring
- CSE 191 (free elective in EE, 4 credits) – fall and spring

Take:

- CSE 115 (4 credits) – fall and spring, instead of EAS 140 and EAS 202
 - CSE 116 (4 credits) – fall and spring, instead of EE 101
- CSE 241 (4 credits) –instead of EE 378/EE 278* (before CSE 379/380 in junior spring)
- CSE 250 (4 credits) – fall and spring, instead of EAS 230 (before CSE 442 in senior fall)

Add:

- MAE 204 (3 credits) spring only –OR– EAS 207 (3 credits) fall and spring
 - 2 additional CSE 4xx TE's(one of these CSE 4xx TE's can count as 6th TE required in EE curriculum prior to Fall 2011)
 - 1 additional CSE TE

** Note 1: EE 378 as required in both CEN and EE was offered Fall 2011. In Fall 2012 EE 378 will become EE 278 for all EE majors. CEN majors and double majors (EE) will be required to take CSE 241 to satisfy this requirement at that time. If you are an EE student who didn't add the CEN double major until after taking EE 378/278 you will be required to complete the 1 credit hour lab component of CSE 241.*

Note 2: EE 303 as required in both CEN and EE will no longer be offered after Spring 2012 and will become EE 205, offered in spring only beginning Spring 2013.

Note 3: EE 352 satisfies the EE 312 requirement in CEN. EE students and double majors (CEN) should take EE 352 instead of EE 312. Students cannot earn credit for both.

Advisement Summary for CEN Students:

(beginning fall 2011)

Follow all requirements for CEN major.

Add:

- PHY 207/257 Physics III w/Lab (5 credits total) – spring only
- EE 311 Electronic Devices and Circuits II (3 credits) - spring only
 - EE 353 Electronic Circuits Lab (3 credits) - spring only
 - EE 324 Electromagnetic Theory (4 credits) - fall only
- EE 383 Communications Systems (3 credits) - spring only
 - EE 408 Senior Seminar (1 credit) - fall only
- EE 409 Senior Design Implementation (2 credits) – spring only
 - EE 436 Energy Systems (3 credits) – fall only
 - Complete EE 352 instead of EE 312*– fall only

(prior to fall 2011)

Follow all requirements for CEN major.

Add:

- PHY 207/257 Physics III w/Lab (5 credits total) – spring only
- EE 203 Circuits II (4 credits) - fall or spring (no longer offered after spring 2012)
 - EE 311 Electronic Devices and Circuits II (3 credits) - spring only
 - EE 353 Electronic Circuits Lab (3 credits) - spring only
- EE 324 Electromagnetic Theory (4 credits) - fall or spring (until Fall 2013, then Fall only)
 - EE 408 Senior Seminar (1 credit) - fall only
 - Complete EE 352 instead of EE 312*– fall only

Note 1: CSE 115, 116, 191, and 250 from CEN satisfy the EAS 140, EAS 202, EAS 230, free elective, and EE 101 requirements in EE. CSE 321, 341, 442, 453, MTH 309, and CSE 4xx TE's from CEN can satisfy the appropriate technical electives in EE.

Note 2: EE 378 as required in both CEN (prior to fall 2011) and EE was offered Fall 2011. In Fall 2012 EE 378 will become EE 278 for all EE majors. CEN majors and double majors (EE) will be required to take CSE 241 to satisfy this requirement at that time.

Note 3: EE 303 as required in both CEN and EE will no longer be offered after Spring 2012 and will become EE 205, offered in spring only beginning Spring 2013.

** Note 4: EE 352 satisfies the EE 312 requirement in CEN. EE students and double majors (CEN) should take EE 352 instead of EE 312. Students cannot earn credit for both. If you are a CEN student who didn't add the EE double major until after taking EE 312, you will be required to complete the lab component of EE 352.*