

**EXECUTIVE COMMITTEE
COLLEGE OF ENGINEERING
REPORT TO THE RIVERSIDE DIVISION**

To be adopted:

Proposed Changes to Computer Engineering Undergraduate Program

PRESENT:

Major Requirements

1. Lower-division requirements (72 units):

- a) ENGR 001G
- b) CS 010, CS 012, CS 014, CS 061
- c) CS 011/ MATH 011
- d) EE 001A, EE 01LA, EE 001B, EE 020
- e) MATH 008B or MATH 009A, MATH 009B, MATH 009C, MATH 010A, MATH 046
- f) PHYS 040A, PHYS 040B, PHYS 040C
- g) CHEM 001A or ME 010

2. Upper- division requirements (77 units minimum):

- a) ENGR 101G
- b) CS 100, CS 141, CS 153, CS 161, CS 161L
- c) CS 120A/EE 120A, CS 120B/EE 120B; one course from CS 122A or EE 128
- d) CS 111
- e) CS 168/EE 168
- f) ENGR 180W
- g) EE 100A
- h) EE 111
- i) EE 114 or STAT 155
- j) Six courses (at least 24 units) as technical electives from the following set of upper division courses
CS 122A, CS 122B, CS 130, ~~CS 133~~, CS 150, CS 152, CS 160, CS 162, CS 164, CS 165, CS 166, CS 169, CS 170, CS 171, CS 172, CS 175, CS 177, CS 179 (E-Z), CS 180, CS 181, CS 183, CS 193

EE 100B, EE 105, EE 115, EE 123, EE 128, EE 132, EE 133, ~~EE 134~~, EE 135, ~~EE 140~~, EE 141, EE 144, EE 146, EE 147, EE 150, EE 151, EE 152, EE 165, EE 175A, EE 175B, ENGR 160

PROPOSED:

Major Requirements

1. Lower-division requirements (72 units):

- a) No Change
- b) No Change
- c) No Change
- d) No Change
- e) No Change

f) No Change
g) No Change

2. Upper- division requirements (77 units minimum):

- a) No Change
- b) No Change
- c) No Change

d) No Change
e) No Change
f) No Change
g) No Change
h) No Change
i) No Change
j) Six courses (at least 24 units) as technical electives from the following set of upper division courses
CS 122A, CS 122B, CS 130, CS 134, CS 150, CS 152, CS 160, CS 162, CS 164, CS 165, CS 166, CS 169, CS 170, CS 171, CS 172, CS 175, CS 177, CS 179 (E-Z), CS 180, CS 181, CS 182, CS 183, CS 193

EE 100B, EE 105, EE 115, EE 123, EE 128, EE 132, EE 133, EE 135, EE 136, EE 137, EE 141, EE 144, EE 146, EE 147, EE 150, EE 151, EE 152, EE 162, EE 165, EE 175A, EE 175B, ENGR 160

The technical electives selected from h) must include either CS 179 (E-Z) or EE 175A and EE 175B. The technical electives must be distinct from those used to satisfy the upper-division requirements specified in items a) and b) above.

No Change

Students may petition for exceptions to the above degree requirements. Exceptions to Computer Science and Electrical Engineering course requirements must be approved by the Computer Engineering undergraduate faculty advisor or chair. Visit the Student Affairs Office in the College of Engineering or student.engr.ucr.edu for a sample program.

No Change

Justification:

1. CS 133, EE 134 and EE 140 are deleted from the catalog because they no longer exist. These courses were removed by the respective departments. Hence, they need to be also removed from the CEN degree requirements.
2. CS 134 - Video game creation and Design and CS 182 - Software testing and verification are useful courses offered in the CSE department. The CEN students will benefit by taking these courses, so they were voted to be included in the technical electives.
3. EE 136 - Semiconductor Device Processing, EE 137 - Introduction to Semiconductor Optoelectronic Devices, and EE 162 - Introduction to Nanoelectronics. The faculty looked at the course contents of these courses offered by the ECE department and felt that these courses are relevant to CEN. So, they voted to include these courses in the technical electives.

Approvals:

Approved by the faculty of the Department of Computer Engineering:
Approved by the Executive Committee of the College of Engineering:
Approved by the Committee on Educational Policy:

February 22, 2018
April 16, 2018
June 14, 2018