Proposed Change to Electrical Engineering Undergraduate Requirements

To be adopted:

**PRESENT:**

**Major Requirements**

1. Lower-division requirements (73 units)
   a. One course in the biological sciences chosen from an approved list
   b. CHEM 001A, CHEM 01LA
   c. CS 010, CS 013, CS 061
   d. EE 001A, EE 01LA, EE 001B, EE 010, EE 020
   e. MATH 008B or MATH 009A, MATH 009B, MATH 009C, MATH 010A, MATH 010B, MATH 046
   f. PHYS 040A, PHYS 040B, PHYS 040C

2. Upper-division requirements (82 units)
   a. EE 100A, EE 100B, EE 105, EE 110A, EE 110B, EE 114, EE 115, EE 116, EE 132, EE 141, EE 175A, EE 175B, EE 175C
   b. CS 120A/EE 120A, CS 120B/EE 120B
   c. ENGR 180W
   d. Twenty (20) units of technical electives (chosen with the approval of a faculty advisor) from CS 122A, CS 130, CS 161, CS 168/EE 168; EE 117, EE 123, EE 128, EE 133, EE 134, EE 135, EE 136, EE 137, EE 138, EE 139, EE 140, EE 144, EE 145/ME 145, EE 146, EE 150, EE 151, EE152, EE 153, EE 155, EE 160, EE 162, EE165, ENGR 160

The choice of technical electives must ensure...
that the upper division requirements include at least one coherent sequence of at least three (3) electrical engineering courses to ensure depth in one area of electrical engineering. Example course sequences are available through the Student Affairs Office in the College of Engineering or student.engr.ucr.edu.

**Justification:**

ECE is proposing a new approach towards improving technical communication. The new approach places more emphasis on technical communication in EE 175B and allows students to take their technical writing course after senior design.

The ECE department also increased the number of EE 175A to properly by one unit to reflect the amount of work required of students. While EE 175C is no longer a requirement, the number of units required remains the same.

**Approvals:**

Approved by the faculty of the Department of Electrical and Computer Engineering: April 1, 2015
Approved by the Executive Committee of Bourns College of Engineering: September 28, 2015
Approved by the Committee on Educational Policy: October 21, 2015