

**EXECUTIVE COMMITTEE
COLLEGE OF ENGINEERING
REPORT TO THE RIVERSIDE DIVISION
MAY 29, 2018**

To be adopted:

Proposed Change to the Computer Science & Engineering Undergraduate Program

PRESENT:

Major Requirements

Computer Science Major

1. Lower-division requirements (61 units)
 - a) ENGR 001-I
 - b) CS 010 or CS 010V, CS 012 or CS 012V, CS 014, CS 061
 - c) CS 011/MATH 011
 - d) MATH 008B or MATH 009A, MATH 009B, MATH 009C, MATH 010A, MATH 031
 - e) PHYS 040A, PHYS 040B, PHYS 040C
 - f) One course of 4 or more units in an engineering discipline outside the field of computer science to be selected in consultation with a faculty advisor. (Either a lower-division or an upper-division course may be used to satisfy this requirement.)

2. Upper-division requirements (86 units minimum)
 - a) ENGR 101-I
 - b) CS 100, CS 141, CS 150, CS 152, CS 153, CS 161, CS 179 (E-Z)
 - c) CS 120A/EE 120A, CS 120B/EE 120B
 - d) CS 111/MATH 111
 - e) ENGR 180W
 - f) STAT 155
 - g) At least 28 units of technical electives to be chosen from an approved list of courses which currently includes CS 122A, CS 122B, CS 130, CS 134, CS 145, CS 160, CS 162, CS 164, CS 165, CS 166, CS 168, CS 169, CS 170, CS 171, CS 172, CS 175, CS 177, CS 179 (E-Z) (4 units maximum), CS 180, CS 181, CS 182, CS 183, CS 193 (4 units maximum), EE 140, MATH 120, MATH 126, MATH 135A, MATH 135B, PHIL 124.

The technical electives selected must be distinct from those used to satisfy the requirements specified in 2.a)–f) above, with at least half of the units selected from Computer Science courses.

PROPOSED:

Major Requirements

Computer Science Major

1. Lower-division requirements (61 units)
 - a) No Change
 - a) No Change
 - c) No Change
 - d) No Change
 - e) No Change
 - f) No Change

2. No Change
 - a) No Change
 - b) No Change
 - c) No Change
 - d) No Change
 - e) No Change
 - f) No Change
 - g) At least 28 units of technical electives to be chosen from an approved list of courses which currently includes CS 122A, CS 122B, CS 130, CS 133, CS 134, CS 135, CS 145, CS 160, CS 162, CS 164, CS 165, CS 166, CS 168, CS 169, CS 170, CS 171, CS 172, CS 175, CS 177, CS 179 (E-Z) (4 units maximum), CS 180, CS 181, CS 182, CS 183, CS 193 (4 units maximum), EE 140, MATH 120, MATH 126, MATH 135A, MATH 135B, PHIL 124.

The technical electives selected must be distinct from those used to satisfy the requirements specified in 2.a)–f) above, with at least half of the units selected from Computer Science courses.

Visit the Student Affairs Office in the College of Engineering or student.engr.ucr.edu for a sample program.

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Justification:

The faculty approved to add CS 133 and CS 135 to the list of technical elective courses for CS majors. CS 133 (Computational Geometry) and 135 (Virtual Reality) are new courses. They are new specialized topics in computer science, and thus suit perfectly as a technical elective for our CS undergraduate students.

Approvals:

Approved by the faculty of the Department of Computer Science & Engineering: February 14, 2018

Approved by the Executive Committee of the College of Engineering: March 19, 2018

Approved by the Committee on Educational Policy: April 11, 2018