EXECUTIVE COMMITTEE
COLLEGE OF ENGINEERING
REPORT TO THE RIVERSIDE DIVISION
May 18, 2004

To be adopted:

Proposed Change in B.S. Degree in Computer Engineering

Present

1. Lower-division requirements (67 units)
ea) MATH 009A, MATH 009B, MATH 009C, MATH 010A, MATH 010B, MATH 46
b) CS 010, CS 012, CS 014, CS 61
c) EE 001A, EE 011A, EE 001B
d) PHY 040A, PHY 040B, PHY 040C
e) One course of four or more units in Chemistry to be selected in consultation with a faculty advisor

2. Upper-division requirements (83 units minimum)
a) MATH 112, MATH 113
b) STAT 155
c) CS 120A/EE 120A, CS 120B/EE 120B; one course from CS 122A or EE 128
d) CS 141, CS 161, CS 180; one course from CS 153 or CS 160
e) EE 100A, EE 100B, EE 110A, EE 110B, EE 141

f) Five courses (at least 20 units) as technical electives from the following set of Computer Science and Engineering, and Electrical Engineering upper-division courses

CS 100, CS 121, CS 122A, CS 122B, CS 130, CS 133, CS 150, CS 152, CS 153, CS 160, CS 162, CS 164, CS 165, CS 166, CS 168, CS 170, CS 171, CS 177, CS 179 (E-Z), CS 180, CS 181, CS 183, CS 193

EE 102, EE 105, EE 115, EE 128, EE 132, EE 144, EE 146, EE 150, EE 151, EE 152, EE 175A, EE 175B

The technical electives selected from f) must include either CS 179 (E-Z) or both EE 175A and EE 175B. The selection of the remaining technical electives must be planned, in consultation with a faculty advisor, to include at least one coherent sequence of two classes from either Computer Science and Engineering or Electrical Engineering. The technical electives must be distinct from those used to satisfy the upper-division requirements specified in items c)-e) listed previously.

Proposed

1. Lower-division requirements (71 units)
a) CS 010, CS 012, CS 014, CS 61
b) CS 011/MATH 011
c) EE 001A, EE 011A, EE 001B
d) MATH 009A, MATH 009B, MATH 009C, MATH 010A, MATH 010B, MATH 46
e) PHY 040A, PHY 040B, PHY 040C
f) One course of four or more units in Chemistry to be selected in consultation with a faculty advisor

2. Upper-division requirements (88 units minimum)
a) CS 141, CS 161, CS 161L, CS 180; one course from CS 153 or CS 160
b) CS 120A/EE 120A, CS 120B/EE 120B; one course from CS 122A or EE 128
c) CS 111/MATH 111
d) EE 100A, EE 100B, EE 110A, EE 110B, EE 141
e) ENGR 180
f) MATH 113
g) STAT 155
h) Five courses (at least 20 units) as technical electives from the following set of Computer Science and Engineering, and Electrical Engineering upper-division courses

CS 100, CS 121, CS 122A, CS 122B, CS 130, CS 133, CS 150, CS 152, CS 153, CS 160, CS 162, CS 164, CS 165, CS 166, CS 168, CS 170, CS 171, CS 177, CS 179 (E-Z), CS 180, CS 181, CS 183, CS 193

EE 102, EE 105, EE 115, EE 128, EE 132, EE 144, EE 146, EE 150, EE 151, EE 152, EE 175A, EE 175B

The technical electives selected from f) must include either CS 179 (E-Z) or both EE 175A and EE 175B. The selection of the remaining technical electives must be planned, in consultation with a faculty advisor, to include at least one coherent sequence of two classes from either Computer Science and Engineering or Electrical Engineering. The technical electives must be distinct from those used to satisfy the upper-division requirements specified in items c)-e) listed previously.
Justification:

1) Course requirements reordered for alphabetical consistency.
2) Math 112 is replaced by a 2-course sequence, CS/Math 11 and CS/Math 111.
3) CS 161 has been split into CS 161 and CS 161L in order to give additional instruction in the laboratory segment.
4) ENGR 180 Technical Communications is designed to enhance the oral and written skills necessary to succeed in the capstone senior design course.
5) CS 180 was inadvertently left listed as a Technical Elective even after being made a major requirement. This corrects the error.

Effective: Fall 2004

Approved by the Executive Committee, College of Engineering on April 7, 2004
Approved by the Committee on Education Policy on __________________