To be adopted:

PRESENT:

Major Requirements
Computer Science Major
1) Lower-division requirements (56 units)
   a) ENGR 001
   b) CS 010, CS 012 or CS 013, CS 014, CS 061
   c) CS 011/MATH 011
   d) MATH 008B or MATH 009A, MATH 009B, MATH 009C, MATH 010A
   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 (90 units minimum)
   a) ENGR 101
   b) CS 100, CS 141, CS 150, CS 152, CS 153, CS 161, CS 161L, CS 179 (E-Z)
   c) CS 120A/EE 120A, CS 120B/EE120B
   d) CS 111
   e) ENGR 180W
   f) MATH 113
   g) STAT 155
   h) Two courses from MATH 046, MATH 120, MATH 126, PHIL 124
   i) At least 24 units of technical electives to be chosen from an approved list of courses which currently includes CS 100, CS 122A, CS 122B, CS 130, CS 133, CS 134, CS 145, CS 151, CS 160, CS 162, CS 164, CS 165, CS 166, CS 168, CS 170, CS 177, CS 179 (E-Z) (4 units maximum), CS 180, CS 181, CS 183, CS 193 (4 units maximum), EE 140, MATH 120, MATH 135A, MATH 135B. The technical electives selected must be distinct from those used to satisfy the requirements specified in 2.a)-h) above.

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

PROPOSED:

Major Requirements
Computer Science Major
1) Lower-division requirements (56 units)
   a) ENGR 001
   b) CS 010, CS 012 or CS 013, CS 014, CS 061
   c) CS 011/MATH 011
   d) MATH 008B or MATH 009A, MATH 009B, MATH 009C, MATH 010A
   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 (90 units minimum)
   a) ENGR 101
   b) CS 100, CS 141, CS 150, CS 152, CS 153, CS 161, CS 161L, CS 179 (E-Z)
   c) CS 120A/EE 120A, CS 120B/EE120B
   d) CS 111
   e) ENGR 180W
   f) MATH 113
   g) STAT 155
   h) Two courses from MATH 046, MATH 120, MATH 126, PHIL 124
   i) At least 24 units of technical electives to be chosen from an approved list of courses which currently includes CS 100, CS 122A, CS 122B, CS 130, CS 133, CS 134, CS 145, CS 151, CS 160, CS 162, CS 164, CS 165, CS 166, CS 168, CS 170, CS 177, CS 179 (E-Z) (4 units maximum), CS 180, CS 181, CS 183, CS 193 (4 units maximum), EE 140, MATH 120, MATH 135A, MATH 135B. The technical electives selected must be distinct from those used to satisfy the requirements specified in 2.a)-h) above.

Visit the Student Affairs Office in the College of Engineering or student.engr.ucr.edu for a sample program.
JUSTIFICATION:
When CS 169 was first approved as a new course, it was also approved to be an undergraduate technical elective for Computer Science, Computer Engineering, and Business Informatics; it was never processed and is being done so presently. This was to be effective Fall 2010 and was first approved in 2009 with the following justification: “Wireless networks are everywhere. The wireless industry has also taken off (example Qualcomm). Given the opportunities that exist today in the wireless industry, our graduates will be better equipped to handle real-world problems if exposed to this area. Very few aspects of wireless networking are covered in the undergraduate networking course. The course is different from traditionally offered courses in Electrical Engineering since it deals primarily with networking issues. In particular, the focus of the course will be on the link, routing and transport layers. Wireless network security, primarily a computer science topic, will be also covered to some extent.”

APPROVALS:
Approved by the Computer Science and Engineering Department: 02/25/2009
Approved by the BCOE Executive Committee: 04/07/2011
Approved by the Committee on Educational Policy: 4/27/11