To be adopted:

Proposed Changes to Computer Science Major

**PRESENT:**

Major Requirements
Computer Science Major

1. Lower-division requirements (61 units)
   a) ENGR 001
   b) CS 010A, CS 010B, CS 010C, CS 061
   c) CS 011/MATH 011
   d) MATH 008B or MATH 009A, MATH 009B, MATH 009C, MATH 010A, MATH 031 or EE 020
   e) PHYS 040A, PHYS 040B, PHYS 040C
   f) At least 9 additional units. 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 (78 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 105, CS 122A, CS 122B, CS 130, CS 133, CS 135, CS 145, CS 147, CS 160, CS 162, CS 164, CS 165, CS 167, CS 166, CS 168, CS 170, CS 171, CS 172, CS 173, CS 175, CS 177, CS 179 (E-Z) (4 units maximum), CS 180, CS 181, CS 182, CS 183, CS 193 (4 units maximum), MATH 120, MATH 126, MATH 135A, MATH 135B, PHIL 124.

**PROPOSED:**

Major Requirements
Computer Science Major

1. Lower-division requirements (61 units)
   a) [no change]
   b) [no change]
   c) [no change]
   d) MATH 009A, MATH 009B, MATH 009C, MATH 010A, MATH 031 or EE 020
   e) [no change]
   f) [no change]

2. Upper-division requirements (78 units minimum)
   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 105, CS 122A, CS 122B, CS 130, CS 133, CS 135, CS 142, CS 144, CS 145, CS 147, CS 160, CS 162, CS 164, CS 165, CS 167, CS 168, CS 169, CS 170, CS 171, CS 172, CS 173, CS 175, CS 177, CS 179 (E-Z) (4 units maximum), CS 180, CS 181, CS 182, CS 183, CS 193 (4 units maximum), 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.

**Justification:**
EE 020 is being renumbered to EE 020B. CS 142 and CS 144 are two new upper division offerings added to the catalog recently that were always meant to be technical electives. We are merely correcting the catalog to reflect that. They are courses that reflect depth areas of study that students can choose among for credit toward their major requirements. MATH008B has also been removed as the course is no longer being offered.

**Approvals:**
Approved by the faculty of the Department of Computer Science and Engineering: September 21, 2020
Approved by the Executive Committee of the College of Engineering: January 13, 2021
Approved by the Committee on Educational Policy: April 22, 2021