

**EXECUTIVE COMMITTEE
BOURNS COLLEGE OF ENGINEERING**

**REPORT TO THE RIVERSIDE DIVISION
MAY 23, 2017**

To be adopted:

PROPOSED CHANGE TO BIOENGINEERING UNDERGRADUATE REQUIREMENTS

PRESENT:

**Bioengineering
Undergraduate Program
Major Requirements**

- 1) Lower-division requirements (~~76~~ units)
 - a) BIEN 001, BIEN 010
 - b) BIOL 005A, BIOL 05LA, BIOL 005B
 - c) CHEM 001A, CHEM 001B, CHEM 001C, CHEM 01LA, CHEM 01LB, CHEM 01LC
 - d) CS 010
 - e) EE 001A, EE 01LA
 - f) MATH 009A, MATH 009B, MATH 009C, MATH 010A, MATH 010B, MATH 046
 - g) PHYS 040A, PHYS 040B, PHYS 040C

- 2) Upper-division requirements (~~78~~-units)
 - a) BIEN 101
 - b) BIEN 105, BIEN 110, BIEN 120, BIEN 125, BIEN 130, BIEN 130L, BIEN 135, BIEN 140A/CEE 140A, BIEN 155, BIEN 175A, BIEN 175B, BIEN 175C
 - c) BIEN 115
 - d) ~~CHEM 112A, CHEM 112B~~
 - e) ~~STAT 155~~

PROPOSED:

**Bioengineering
Undergraduate Program
Major Requirements**

- 1) Lower-division requirements (84 units)
 - a) No Change
 - b) No Change
 - c) CHEM 001A, CHEM 001B, CHEM 001C, CHEM 01LA, CHEM 01LB, CHEM 01LC (or CHEM 01HA, CHEM 01HB, CHEM 01HC, CHEM 1HLA, CHEM 1HLB, CHEM 1HLC, CHEM 008A, CHEM 008B, CHEM 08LA, CHEM 08LB, (or CHEM 08HA, CHEM 08HB, CHEM 08HLA, CHEM 08HLB))
 - d) No Change
 - e) No Change
 - f) MATH 009A, MATH 09B, MATH 009C (or MATH 09HA, MATH 09HB, MATH 09HC)
MATH 010A, MATH 010B, MATH 046,
 - g) No Change

- 2) Upper-division requirements (70 units)
 - a) No Change
 - b) No change.
 - c) No Change
 - d) STAT 155
 - e) Technical electives (16 units):
BIEN 136/MSE 136, BIEN 137,

BIEN 138, BIEN 140B/CEE 140B,
BIEN 142, BIEN 159/CEE 159,
BIEN 160, BIEN 165, BIEN 166,
BIEN 167

f) ~~Technical electives (16 units):~~
~~BIEN 136/MSE 136, BIEN 137,~~
~~BIEN 138, BIEN 140B/CEE~~
~~140B, BIEN 142, BIEN 159/CEE~~
~~159, BIEN 160, BIEN 165, BIEN~~
~~166.~~

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

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JUSTIFICATION:

Students who are a part of or are eligible to take Honors levels for General Chemistry, Organic Chemistry and Calculus are welcome to also use those courses to fulfill the requirements of the major and this change will allow this to automatically cover those requirements.

The Chemistry Department has renumbered their Organic Chemistry series and has added a lab component to the course. We have added this and the Honors version along with the changes in lower-division and upper-division unit requirements.

A technical elective that was added to the curriculum in a prior academic year had not been added to our approved list of offerings to fulfill the requirement so we are adding this to the list of courses that will fulfill our technical elective requirement.

APPROVALS:

By the faculty of the Department of Bioengineering:
By the BCOE Executive Committee:
By the Committee on Educational Policy:

December 19, 2016
February 15, 2017
May 3, 2017