

**EXECUTIVE COMMITTEE  
COLLEGE OF BOURNS COLLEGE OF ENGINEERING**

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

To be adopted:

Proposed Changes to Materials Science and Engineering Undergraduate Program

**PRESENT**

Major Requirements

1. Lower-division requirements (~~68~~ Units)
  - a) CHEM 001A, CHEM 001B, CHEM 001C  
CHEM 01LA, CHEM 01LB, CHEM 01LC
  - b) CS 030
  - c) EE 001A, EE01LA
  - d) MATH 009A, MATH 009B  
MATH 009C, MATH 010A, MATH 010B,  
MATH 046
  - e) ME 010
  - f) MSE 001
  - g) PHYS 040A, PHYS 040B, PHYS 040C
  
2. Upper-division requirements (~~76~~ Units)
  - a) BIEN 140A/CEE140A
  - ~~b) CHEM 112A~~
  - ~~c) CEE 135~~
  - ~~d) CHE 100~~
  - ~~e) EE 138~~
  - ~~f) ENGR 180W~~
  - ~~g) ME 110, ME 114, ME 156~~
  
  - ~~h) MSE 160, MSE 161, MSE 175A, MSE 175B~~
  - ~~i) STAT 155~~
  
  - ~~j) Technical Electives (20 units): chosen from:  
BIEN 140B/CEE 140B, CEE 147, EE 133,  
EE 136, EE 137, EE 139, ME 113, ME 116,  
ME 138, ME 153, ME 180, MSE 197~~

**PROPOSED**

Major Requirements

1. Lower-division requirements (72 Units)
  - a) CHEM 001A, CHEM 001B, CHEM 001C  
CHEM 01LA, CHEM 01LB, CHEM 01LC
  - b) No Change
  - c) No Change
  - d) No Change
  
  - e) No Change
  - f) No Change
  - g) No Change
  - h) CHEM 008A, CHEM 08LA
  
2. Upper-division requirements (72 Units)
  - a) No Change
  - b) CEE 135
  - c) CHE 100
  - d) EE 138
  - e) ENGR 180W
  - f) ME 110, ME 114, ME 156
  - g) MSE 160, MSE 161, MSE 175A, MSE 175B
  - h) STAT 155
  - i) Technical Electives (20 units): chosen from:  
BIEN 140B/CEE 140B, CEE 147, EE 133, EE 136, EE 137, EE 139, ME 113, ME 116, ME 138, ME 153, ME 180, MSE 197

**Justification:**

In conducting our curriculum review for the UCOP initiative to reduce the number of upper division units in each major we identified an 8-unit upper division saving based on proposed changes in the Chemistry Department as well as moving one (4 unit) upper division breadth course to lower division. Specifically,

that the Chemistry Department has proposed changes to organic chemistry (CHEM 112A), moving the upper division units associated with this course to lower division (CHEM 8A). The combined result is an 8-unit reduction in upper division units for the Materials Science and Engineering program. The above changes to the catalog are necessary to accurately reflect the proposed changes from the Chemistry Dept.

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**Approvals:**

Approved by the faculty of the Department of:

November 8, 2016

Approved by the Executive Committee of the College of Engineering:

February 15, 2017

Approved by the Committee on Educational Policy:

May 3, 2017