EXECUTIVE COMMITTEE
COLLEGE OF ENGINEERING

REPORT TO THE RIVERSIDE DIVISION
May 31, 2001

To be adopted:

Proposed Change in B.S. Degree
Chemical Engineering

Present

Course Requirements:

2. Upper-division requirements: (72 units)
   a) CHEM 110B, CHEM 112A-CHEM 112B-
      CHEM 112C
   b) CHE 110, CHE 117, CHE 118, CHE 120,
      CHE 122, CHE 160B, CHE 160C, CHE 175A,
      CHE 175B
   c) CHE 130/ENVE 130, CHE 160A/ENVE 160A
   d) ENGR 100, ENGR 115, ENGR 116, ENGR 118

Proposed

Course Requirements:

2. Upper-division requirements: (73 units)
   a) CHEM 110B, CHEM 112A-CHEM 112B-
      CHEM 112C
   b) CHE 100, CHE 110A, CHE 110B, CHE 114,
      CHE 116, CHE 117, CHE 118, CHE 120,
      CHE 122, CHE 160B, CHE 160C, CHE 175A,
      CHE 175B
   c) CHE 130/ENVE 130, CHE 160A/ENVE 160A
   d) ENGR 118

Justification

1. Instructional experience has shown that the content of CHE 110 (Chemical process Analysis) is
   best delivered if presented over two quarters, the first devoted to the principles of process analysis
   and the second to their application to Chemical Engineering. Consequently, the course CHE 110
   has been split into two (3 unit) courses, CHE 110A and CHE 110B.

2. The new upper-division unit count (73) also reflects a change in the number of units for CHE 175B
   from 5 to 4, previously approved.

3. Each of the majors of Chemical Engineering, Environmental Engineering, and Mechanical
   Engineering has requirements for core courses in thermodynamics, heat transfer, and fluid
   mechanics. However, the specific needs vary by discipline. As a compromise, when these
   programs were in their initial stages, such courses were taught collaboratively under the general
   designations of ENGR 100, ENGR 116, and ENGR 115. This compromise was never entirely
   satisfactory, and now that the programs have matured, the faculty feels the need to teach these
   subjects in a manner more appropriate and specific to their disciplines. Thus CHE 100, CHE 114,
   CHE 116 are now to replace ENGR 100, ENGR 115, ENGR 116, respectively, as Chemical
   Engineering major requirements.

Approved by the Chemical and Environmental Engineering Faculty on 2/2/01
Approved by the Executive Committee, College of Engineering on 2/14/01.
Approved by the Committee on Educational Policy on 4/19/01.