To be adopted:

Proposed changes to the major requirements for the B.S. degree in Chemistry

1. **Present**

**MAJOR REQUIREMENTS**

The major requirements for the B.A. and the B.S. degree in Chemistry are as follows:

**For the Bachelor of Arts**

1. Lower-division requirements (45-48 units)...
2. Upper-division requirements (38 units)...

**For the Bachelor of Science**

1. Lower-division requirements (61 units)
   a) CHEM 001A, CHEM 001B...
   b) MATH 009A,....
   c) PHYS 040A,....
2. Upper-division requirements (50 units)
   a) CHEM 110A, CHEM 110B, CHEM 111, CHEM 112A-CHEM 112B-CHEM 112C, CHEM 113, CHEM 125, CHEM 150A, CHEM 191, and three courses, two of which must contain laboratory, from the group CHEM 140, CHEM 150B, CHEM 166, BCH 102, BCH 110A, ENSC 135/CHEM 135

Major Requirements for the Bachelor of Science in Chemistry with a Chemical Physics option are as follows:

Students must consult the ....

1. Lower-division requirements (57 units)
   a) CHEM 001A-CHEM 001B....
   b) MATH 009A-MATH 009B-....
   c) PHYS 040A, PHYS 040B,....

1. **Proposed**

**MAJOR REQUIREMENTS**

The major requirements for the B.A. and the B.S. degree in Chemistry are as follows:

**For the Bachelor of Arts**

1. No change
2. No change

**For the Bachelor of Science**

1. Lower-division requirements (61 units)
   a) No change
   b) No change
   c) No change
2. Upper-division requirements (50 units)
   a) CHEM 110A, CHEM 110B, CHEM 111, CHEM 112A-CHEM 112B-CHEM 112C, CHEM 113, CHEM 125, CHEM 150A, CHEM 191
   b) Two laboratory courses from the group CHEM 140, CHEM 166, BCH 102
   c) One course from the group CHEM 150B, ENSC 135/CHEM 135, ENSC 136/CHEM 136, BCH 110A

Major Requirements for the Bachelor of Science in Chemistry with a Chemical Physics option are as follows:

No change

1. Lower-division requirements (61 units)
   a) No change
   b) No change
   c) No change
2. Upper-division requirements (74 units)
   a) CHEM 110A, CHEM 110B, ....
   b) Twenty-four (24) units of upper-division course work (CHEM 110 or above) in Mathematics or Physics (excluding 190 series)
   c) Nine (9) additional ....

Undergraduate research is ....

2. Upper-division requirements (74 units)
   a) No change
   b) Twenty-four (24) units of upper-division course work (110 or above) in Mathematics or Physics (excluding 190 series)
   c) No change

Major Requirements for the Bachelor of Science in Chemistry with an Environmental Chemistry option are as follows:

Students must consult with the Undergraduate Advisor before electing this option.

1. Lower-division requirements (73 units)
   a) CHEM001A-CHEM001B-CHEM001C (or CHEM01HA-CHEM01HB-CHEM01HC), CHEM005
   b) MATH009A-MATH009B-MATH009C, MATH010A-MATH010B, and MATH046
   c) PHYS040A-PHYS040B-PHYS040C-PHYS040D
   d) BIOL005A-BIOL005B-BIOL005C

2. Upper-division requirements (65-67 units)
   a) CHEM110A, CHEM110B, CHEM111, CHEM112A-CHEM112B-CHEM112C, CHEM113, CHEM125, CHEM135, CHEM136, CHEM140, CHEM150A, CHEM166, CHEM191
   b) One course from GEO137 or SLSC104
   c) Two additional courses from the group CHEM150B, (4 units of CHEM197 or CHEM199), ENSC140, ENSC142, ENSC155, ENSC163, ENTX101, GEO137, GEO158, GEO160A, SLSC104
**Justification:**

Inclusion of the newly approved CHEM 136 (cross-listed ENSC 136) as an optional course for the B.S. degree in Chemistry.

Environmental Option to the B.S. degree in Chemistry has been designed to utilize the expertise of the UCR faculty and existing Environmental courses. The proposed course of study includes the complete B.S. degree in Chemistry with additional lower division courses in Biology and additional upper division courses relevant to environmental studies.

Approved by the Chemistry Department faculty: March 26, 1998
Approved by the CNAS Executive Committee: April 8, 1998
Approved by the Committee on Educational Policy: April 20, 1998