To be adopted:

Proposal for an Applied Mathematics, Chemistry option for the Bachelor of Science Degree in Mathematics

Present: Proposed:

MAJOR REQUIREMENTS FOR THE BACHELOR OF SCIENCE DEGREE

1. Lower-division requirements (52 units-55 units)
   a) MATH 009A-MATH 009B-MATH 009C,MATH 010A-MATH 010B, MATH 046
   b) CHEM 001A-CHEM 001B-CHEM 001C
   c) either PHYS 040A-PHYS 040B-PHYS 040C (preferred)
      or PHYS 002A-PHYS 002B-PHYS 002C
   d) CS 010, (CS 012 is recommended)

2. Upper-division mathematics requirement (36 units)
   a) MATH 131, MATH 132, MATH 146A-MATH146B-MATH146C
   b) Four courses from
      MATH 120, MATH 135A-MATH 135B, MATH 149A-MATH 149B-MATH 149C,
      MATH 165A-MATH 165B

3. Upper-division chemistry requirement (20 units)
   a) CHEM 110A-CHEM 110B, CHEM 111, CHEM 113
   b) Four (4) additional upper-division units

Justification:

This proposed track within the Bachelor of Science degree program is along the lines of the existing options. It is intended to provide a formalized framework for those students seeking to find applications for mathematics in chemistry. The chemistry courses selected for this option are those with a high concentration of mathematics.

Approved by the Mathematics Faculty on January 13, 1999
Approved by CNAS Executive Committee on April 14, 1999
Approved by Committee on Educational Policy on May 12, 1999