Bachelor of Science in Chemistry- ACS Certified Degree Requirements
(For students declaring chemistry as their major Spring quarter 2010 or later)

1) Mathematics (MATH)
   a) Calculus or Honors Calculus
      □ 124 (5 credits) □ 134 (5)
      □ 125 (5) □ 135 (5)
      □ 126 (5) □ 136 (5)
   b) Two additional math courses above the 200 level are required if the regular calculus sequence is taken. Recommended are:
      □ 307 (3) or □ AMATH 351 (3)
      □ 308 (3) or □ AMATH 352 (3)

2) Physics (PHYS)
   a) Calculus-based or Algebra-based
      □ 121 (5) □ 114 (4)
      □ 122 (5) □ 115 (4)
      □ 123 (5) □ 116 (4)
      The calculus-based series is recommended. NOTE: One credit lab is included with each course in the calculus-based physics series.
   b) One credit of laboratory
      □ 117, 118, 119 (1)

3) General Chemistry (CHEM)
   Regular or Advanced or Honors
   □ 142 (5) □ 144 (5) □ 145 (5)
   □ 152 (5) □ 154 (5) □ 155 (5)
   □ 162 (5) □ 164 (5) □ 165 (5)

4) Analytical Laboratory (CHEM)
   □ 321 Quantitative Analysis (5)
   □ 426 Instrumental Analysis (3)

5) Inorganic Chemistry (CHEM)
   □ 312 Lecture (3)
   □ 317 Laboratory (4)
   □ 416 Transition Metals Lecture (3)
   Students completing 155 and 165 are exempt from CHEM 312.

6) Organic Chemistry (CHEM)
   a) Regular or Honors
      □ 237 (4) □ 335 (4)
      □ 238* (4) □ 336 (4)
      □ 239 (3) □ 337 (4)
   b) Laboratory
      □ 241 (3) □ 346 (3)
      □ 242 (3) □ 347 (3)
      *Organic laboratory begins with 2nd organic lecture.

7) Physical Chemistry (CHEM)
   □ 455 (3)
   □ 456 (3)
   □ 457 (3)
   □ 461 (3)

8) Biochemistry (BIOC)
   □ 405 (3)*

9) Advanced Chemistry
   The two parts of this requirement must total a minimum of 5 credits:
   a) □ Choose one 400 level lab from the following:
      ___ 462 Organic Synthesis (2 or 3)
      ___ 463 Spectroscopy (2)
      ___ 465 Computations in Chemistry (3)
   b) □ Additional 400-level CHEM/BIOC courses (EXCEPT CHEM 498), not previously mentioned, taken for a numerical grade.

   Honors students only may apply Chem 399 or 499 for Part B.

*Students should contact chemistry advising regarding prerequisite alternatives for BIOC 405.