PROGRAM FOR THE DEGREE OF BACHELOR OF SCIENCE IN CHEMISTRY

A. General Requirements
   Core Areas A, B, C, D, and E ................................................................. 42 hours
   Chemistry majors are required to take MATH 1113 in Core Area A and MATH 1161 in Core Area D
   Area F ........................................................................................................ 18 hours
   CHEM 1211 and 1212 (and labs) - Principles of Chemistry I, II (unless taken to satisfy Area D, in which case
   replace with 8 hours of lower division electives)
   Choose one sequence from:
   PHYS 1111/1111L - Introductory Physics I and
   PHYS 1112/1112L - Introductory Physics II or
   PHYS 2211/2211L - Principles of Physics I and
   PHYS 2212/2212L - Principles of Physics II
   One hour excess for MATH 1161 from Core Area D
   One hour lower division approved elective
   Physical Education ................................................................................... 3 hours

B. Major Field Courses ............................................................................. 38 hours
   CHEM 2101/2101L - Organic Chemistry I
   CHEM 2102/2102L - Organic Chemistry II
   CHEM 2300 - Principles of Chemical Analysis
   CHEM 3200 - Inorganic Chemistry
   CHEM 3300 - Instrumental Analysis
   CHEM 3401 - Physical Chemistry I
   CHEM 3402 - Physical Chemistry II
   CHEM 4500 - Chemistry Seminar
   Two courses from:
   CHEM 3801 - Biochemistry I
   CHEM 4100 - Advanced Organic Chemistry
   CHEM 4200 - Advanced Inorganic Chemistry
   CHEM 4300 - Advanced Analytical Chemistry
   CHEM 4400 - Advanced Physical Chemistry
   Two credit hours from:
   CHEM 2700, 2900, 3801, 3802, 3900, 4100, 4200, 4300, 4400, 4940, 4950, 4960, or 4991/2/3/4

C. Electives ............................................................................................... 22 hours
   15 hours of upper-division courses from within College of Liberal Arts
   7 hours of free electives

Total Semester Hours .................................................................................. 123 hours

D. Regents’ Test and Exit Exam

Proper course selection will allow the student to pursue any one of the following degree options.

Pre-professional/Biochemistry Option:

B. Major Field Courses ............................................................................. 38 hours
   Add CHEM 3801, 3802 - Biochemistry I, II as requirements

C. Related Field Courses ......................................................................... 7 hours
   BIOL 1107 - Principles of Biology I and BIOL 1108 - Principles of Biology II (one hour counted in Area F)

D. Electives ................................................................................................ 15 hours
   Upper-division courses from chemistry or other subjects within the College of Liberal Arts (15 semester hours)

Pre-Graduate Study Option:

Note: PHYS 2211/2211L and PHYS 2212/2212L is the recommended physics sequence.

C. Related Field Courses ......................................................................... 13 hours
   MATH 2072 - Calculus II (one hour counted in Area F) and
   MATH 2083 - Calculus III and
   PHYS 3801/3801L - Optics and Modern Physics as requirements

D. Electives ................................................................................................ 12 hours
   Upper-division courses from chemistry or other subjects within the College of Liberal Arts