## Major Requirements

- **Required Core - 33 semester hours**
  - 4 CHEM 112/L General Chemistry I/Lab
  - 4 CHEM 114/L General Chemistry II/Lab
  - 4 CHEM 326/L Organic Chemistry I/Lab
  - 4 CHEM 328/L Organic Chemistry II/Lab
  - 4 CHEM 332/L Analytical Chem/Lab
  - 4 CHEM 342/L Physical Chemistry I/Lab
  - 4 CHEM 464/L Biochemistry I/Lab
  - 1 CHEM 490 Senior Seminar
  - 4 MATH 123 Calculus I

- **Take 1 emphasis:**
  - **Chemistry Emphasis - 27-30 semester hours**
    - 4 CHEM 452/L Inorganic Chemistry/Lab
    - 4 MATH 125 Calculus II
    - 5 PHYS 211/L University Physics I/Lab
    - 5 PHYS 213/L University Physics II/Lab
  - **Biochemistry Emphasis - 26-30 semester hours**
    - 4 BIOL 151/L General Biology I/Lab
    - 4 CHEM 465/L Biochemistry I/Lab

- **Required Electives - Take 3 courses and corresponding lab if applicable: 9-12 semester hours**
  - BIOL 343/L Cell & Molecular Biology/Lab
  - CHEM 434/L Instrumental Analysis/Lab
  - CHEM 492 Topics
  - CHEM 498 Research
  - GEO 360 Environmental Geochemistry
  - MATH 225 Calculus III
  - MATH 281 Introduction to Statistics
  - MATH 321 Differential Equations
  - PHYS 331 Modern Physics

- **Biochemistry Emphasis - 26-30 semester hours**
  - 4 BIOL 151/L General Biology I/Lab
  - 4 BIOL 153/L General Biology II/Lab
  - 4 CHEM 465/L Biochemistry I/Lab

  - **Take one of the following groups:**
    - PHYS 111/L Introduction to Physics I/Lab
    - PHYS 113/L Introduction to Physics II/Lab
    - PHYS 211/L University Physics I/Lab
    - PHYS 213/L University Physics II/Lab

  - **Required Electives - Take 2 courses and corresponding lab if applicable: 6-8 semester hours**
    - BIOL 317/L Electron Microscopy/Lab
    - BIOL 325/L Physiology/Lab
    - BIOL 331/L Microbiology/Lab
    - BIOL 343/L Cell & Molecular Biology/Lab
    - BIOL 371/L Genetics/Lab
    - BIOL 381/L Vertebrate Anatomy/Lab
    - CHEM 344/L Physical Chemistry II/Lab
    - CHEM 434/L Instrumental Analysis/Lab
    - CHEM 452/L Inorganic Chemistry/Lab
    - CHEM 492 Topics
    - CHEM 498 Research