

Bachelor of Science in Chemistry- ACS Certified Degree Requirements

(For students declaring chemistry as their major winter quarter 2008 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 Honors
 142 (5) 145 (5)
 152 (5) 155 (5)
 162 (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)
___ 464 Computers in Data Acquisition and Analysis (3)
___ 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.*