

# Bachelor of Science in Chemistry Degree Requirements

## 1) Mathematics (MATH)

- a) Regular or Honors  
 124 (5)       134 (5)  
 125 (5)       135 (5)  
 126 (5)       136 (5)
- b) Additional Math – one approved 300 level or higher. Recommended:  
 308 (3) or  AMATH 352  
Students who have taken the Honors 134, 135, 136 sequence are exempt from this additional math requirement.

## 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 or Accelerated  
 142 (5)     145 (5)     143 (6)  
 152 (5)     155 (5)     153 (6)  
 162 (5)     165 (5)

## 4) Inorganic Chemistry (CHEM)

- 312 Lecture (3)  
for students who took 142-152-162
- or
- 416 Transition Metals Lecture (3)  
for students who took 145-155-165

## 5) Organic Chemistry (CHEM)

- a) Lecture  
Regular or Honors  
 237 (4)       335 (4)  
 238 (4)       336 (4)  
 239 (4)       337 (4)
- b) Laboratory  
 241 (3) or  346 (3)  
Organic laboratory begins with the second lecture course.

## 6) Physical Chemistry (CHEM)

- Regular  
 455 (3)  
 456 (3)  
 457 (3)

## 7) Chemistry Labs (CHEM)

- a)  **two of the three** labs: Chem 317(4), 321 (5), and 461(3)
- b)  **five** additional credits from the following:  
CHEM 242(3), 317(4), 321(5), 347(3), 426 (3), 428 (3), 461(3), 462(2 or 3), 463(2), 464 (3) 466(3), or BIOC 426(4).

## 8) Science Electives (11 credits)

- 400 level CHEM/BIOC lecture or lab courses
- Students who have a chemistry grade point average of 3.3 can apply up to six credits of CHEM 399 or 499 research
- Math 307 or AMATH 351 or STAT 311 also count as a science elective

*Note: This sheet outlines the degree requirements for the non-ACS certified chemistry degree. An ACS-Certified degree is described in a separate worksheet. For more information see the website: [http://depts.washington.edu/chemugs/degree\\_req.html](http://depts.washington.edu/chemugs/degree_req.html) or e-mail [advisers@chem.washington.edu](mailto:advisers@chem.washington.edu).*