

# ***Bachelor of Science in Chemistry ACS certified Degree Requirements***

## **1) Mathematics (MATH)**

- a) Calculus or Honors Calculus  
 124 (5)                       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:**

- 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)

Calculus-based series is recommended. One credit lab is included in the calculus-based physics series.

- b) One credit of laboratory  
 117, 118, 119 (1)

## **3) General Chemistry (CHEM)**

- Regular or Accelerated or Honors  
 142 (5)     143 (6)     145 (5)  
 152 (5)     153 (6)     155 (5)  
 162 (5)                                       165 (5)

## **4) Analytical Lab (CHEM)**

- 321 (5)  
 426 (3) or 428 (3)

## **5) Inorganic Chemistry (CHEM)**

- 312 Lecture (3)  
 317 Laboratory (4)  
 416 Transition Metals (3)

Students completing 155 and 165 are exempt from CHEM 312.

## **6) Organic Chemistry (CHEM)**

- a) Lecture  
Regular or Honors  
 237 (4)                       335 (4)  
 238 (4)                       336 (4)  
 239 (4)                       337 (4)

- b) Laboratory  
 241 (3)                       346 (3)  
 242 (3)                       347 (3)

## **7) Physical Chemistry (CHEM)**

- 455 (3)  
 456 (3)  
 457 (3)  
 461 (3)

## **8) Biochemistry**

- BIOC 405 or CHEM 432 or CHEM 436

## **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  
 463 Spectroscopy  
 464 Computers in Data Acquisition  
 466 Energy Materials, Devices

- b) Additional 400-level CHEM/BIOC course not previously taken.

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