



## Approved Chemistry Endorsement Courses

Washington state teachers must be certified to teach *and* must hold an endorsement in a teaching subject. To be eligible for an endorsement, applicants must complete college-level coursework--with a 2.0/C grade or higher--in their endorsement subject to demonstrate their knowledge and understanding of various topics in the discipline. Specific endorsement competency areas are outlined by the [State of Washington Professional Educator Standards Board](#).

### **Chemistry General Introductory Sequence (3 courses)**

B CHEM 143 + B CHEM 144 General Chemistry I with Laboratory

B CHEM 153 + B CHEM 154 General Chemistry II with Laboratory

B CHEM 163 + B CHEM 164 General Chemistry III with Laboratory

### **Organic Chemistry with Laboratory (2 courses)**

B CHEM 237 + B CHEM 241 Organic Chemistry I

B CHEM 238 + B CHEM 242 Organic Chemistry II with Laboratory

### **Qualitative Chemistry (1 course)**

B CHEM 315 Quantitative Environmental Analysis

### **Chemistry in Society (1 course)**

B CHEM 294 Chemistry Seminar (1-2 cr)

### **Biochemistry with Laboratory (1 course)**

B CHEM 364 + B CHEM 366 Biochemistry I with Laboratory

### **Physical Chemistry (1 course)**

B CHEM 401 Physical Chemistry I (4 cr)

### **Upper-Division Chemistry Courses (2 courses; 1 must be lab)**

B CHEM 310 Molecular Modeling

B CHEM 312 Inorganic Chemistry I (3 cr)

B CHEM 313 Inorganic Chemistry II (3 cr)

B CHEM 315 Quantitative Environmental Analysis

B CHEM 350 Atmospheric Chemistry & Air Pollution

B CHEM 364 + B CHEM 366 Biochemistry I with Laboratory  
B CHEM 365 Biochemistry II  
B CHEM 375 Molecular Biology  
B CHEM 401 Physical Chemistry I (4 cr)  
B CHEM 402 Physical Chemistry II (4 cr)  
B CHEM 403 Physical Chemistry III (4 cr)  
B CHEM 426 Instrumental Analysis

## **Faculty-Mentored Research in Chemistry or Chemistry Education (1 course)**

B CHEM 495 Investigative Chemistry I (3 cr)  
B CHEM 498 Independent Study in Chemistry  
B CHEM 499 Undergraduate Research in Chemistry

## **Physics Introductory Sequence (3 Courses)**

B PHYS 114 + B PHYS 117 General Physics with Laboratory  
B PHYS 115 + B PHYS 118 General Physics with Laboratory  
B PHYS 116 + B PHYS 119 General Physics with Laboratory  
B PHYS 121 Mechanics  
B PHYS 122 Electromagnetism and Oscillatory Motion  
B PHYS 123 Waves

## **Calculus Sequence (3 courses)**

STMATH 124 Calculus I  
STMATH 125 Calculus II  
STMATH 126 Calculus III  
STMATH 324 Multivariable Calculus (encouraged, but not required)