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 with, a 2.0 grade or higher, a minimum of 45 credits of college-level coursework 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.

^ Indicates courses that fulfill Chemistry (B.S.) major requirements
* Indicates courses that fulfill Chemistry (B.A.) major requirements

**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)