



## UW Bothell Approved Physics 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 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 Physics (B.S.) major requirements

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### Physics Introductory Sequence (3 courses)

B PHYS 121 Mechanics\*^

B PHYS 122 Electromagnetism and Oscillatory Motion\*^

B PHYS 123 Waves\*^

### Classical Mechanics (1 course)

B PHYS 221 Classical Mechanics\*^

### Modern Physics (1 course)

B PHYS 222 Modern Physics\*^

### Thermal Physics (1 course)

B PHYS 224 Thermal Physics\*^

### Physics in Society (1 course)

B PHYS 484 Physics, Society and Industry\*^

### Upper-Division Physics (2 courses - 300-level or higher)

B PHYS 311 Introduction to Astrophysics I\*^

B PHYS 312 Introduction to Astrophysics II\*^

B PHYS 314 Introduction to Cosmology\*^

B PHYS 317 Mathematical Physics\*^

B PHYS 321 Electricity and Magnetism I\*^

B PHYS 322 Electricity and Magnetism II\*^  
B PHYS 323 Electricity and Magnetism III\*^  
B PHYS 324 Quantum Mechanics I\*^  
B PHYS 325 Quantum Mechanics II\*^  
B PHYS 328 Statistical Physics\*^  
B PHYS 431 Experimental Physics Lab: Analog Circuits\*^  
B PHYS 432 Experimental Physics Lab: Digital Circuits and Instrumentation\*^  
B PHYS 441 Condensed Matter Physics I\*^  
B PHYS 442 Condensed Matter II\*  
B PHYS 450 Computational and Theoretical Modeling in Physics\*^

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

B PHYS 499 Undergraduate Research in Physics\*^

### **General Chemistry (1 course)**

B CHEM 143 General Chemistry I^

B CHEM 144 General Chemistry Lab I (concurrent enrollment with B CHEM 143)

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

STMATH 124 Calculus I\*^

STMATH 125 Calculus II\*^

STMATH 126 Calculus III\*^

STMATH 324 Multivariable Calculus\*^ (encouraged for endorsement, but not required)

### **Differential Equations (1 course)**

STMATH 307 Introduction to Differential Equations\*^

**Note:** Depending on topic, Special Topics courses may meet endorsement requirements. Please submit [Endorsement Course Syllabus Review](#) Form to have a course considered for an endorsement area.