UNIVERSITY of WASHINGTON | BOTHELL

SCHOOL OF EDUCATIONAL STUDIES

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 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.

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.