



Office of
Transfer Relations

Catalog: 2026-2027 University of Wyoming Catalog Program:
Physics, B.S.

Wyoming Transfer Alignment Guide (WyoTAG)

Physics, B.S.

The Bachelor of Science in Physics program is intended for students who will pursue a career or a graduate degree in physics or related fields.

University Studies Program

This degree requires that The University Studies Program 2015 requirements are met before graduation. Some of the courses required for this major fulfill USP requirements, but not all. Students should check their degree evaluations and consult with their assigned academic advisor to discuss their specific course plan.

Course Name	Credits	UW Course in Major	AA/AS/AB/ADN satisfies this USP
C 1-Communication 1 (COM1)	3		X
C 2-Communication 2 (COM2)	3		X
C 3-Communication 3 (COM3)	3	(Must be completed at UW)	X
Q-Quantitative Reasoning (Q)	3		X
PN-Physical and Natural World (1) (PN)	3		X
PN-Physical and Natural World (2) (PN)	3		X
H-Human Culture (1) (H)	3		X
H-Human Culture (2) (H)	3		X
V-US & WY Constitution (V)	3		X
FYS or USP Elective-Any 3-credit hour of FYS or 3-credit hours of USP electives	3		X

Note: FYS courses have been paused. 3 hours from any additional USP designated courses is still required.

Requirement for Major in Physics

Students in the Bachelor of Science in Physics major program are required to complete 120 credits, 42 of which are upper-division credits, and the following courses:

Course Name	Credits	Casper	CWC	EWC	LCCC	NWCCD	Northwest	Western
PHYS 1210 - Engineering Physics I PN OR PHYS 1310 - College Physics I PN	4	X	X	X	X	X	X	X
PHYS 1220 - Engineering Physics II PN OR PHYS 1320 - College Physics II PN	4	X	X	X	X	X	X	X
PHYS 2310 - Physics III: Waves and Optics	4	X						
PHYS 2320 - Physics IV: Modern Physics	3	X					X	
MATH 2200 - Calculus I Q	4	X	X	X	X	X	X	X
MATH 2205 - Calculus II Q	4	X	X	X	X	X	X	X
MATH 2210 - Calculus III	4	X	X	X	X	X	X	X
MATH 2250 - Elementary Linear Algebra	3	X	X	X	X	X	X	X
MATH 2310 - Applied Differential Equations I	3	X	X		X	X	X	X

Requirement for Major in Physics Continued

Course Name	Credits	
PHYS 3000 - Methods of Physics	4	UW Course
PHYS 3640 - Modern Electronics and Experimental Techniques	4	UW Course
PHYS 3650 - Advanced Lab in Modern Physics and Electronics (C3)	4	UW Course
PHYS 4210 - Classical Mechanics I	3	UW Course
PHYS 4310 - Quantum Mechanics	3	UW Course
PHYS 4410 - Electricity and Magnetism	3	UW Course
PHYS 4510 - Thermodynamics and Statistical Mechanics	3	UW Course
PHYS 4420 - Electricity and Magnetism II	3	UW Course
PHYS 4830 - Mathematical and Computational Physics I	3	UW Course
PHYS 4840 - Mathematical and Computational Physics II	4	UW Course

Electives

Students are required to take at least 3 hours of electives from any PHYS 4000 or 5000 level course.

Additional Requirements

Course sequencing may need to be altered if ACT, SAT or Math Placement scores require a student to take pre-college courses before taking required math or English courses. Not all courses are offered every semester and some electives may have prerequisites. Students should review course descriptions and consult with their academic advisor to plan accordingly.

A major requires 42 hours of upper-division (3000 level or above) coursework, 30 of which must be from the University of Wyoming.

Students must have a minimum cumulative GPA of 2.0 to graduate. At least 30 hours in the major subject must be completed with a grade of C or better. Courses must be taken for a letter grade unless offered only for S/U.

University Studies Program (USP) Human Culture (H) and Physical & Natural World (PN) courses must be taken outside of the major subject, but can be cross-listed with the major.

For declared physics majors, the prerequisite of MATH 2200 for PHYS 1210 is waived and concurrent enrollment is approved.

For declared physics majors, the prerequisite of MATH 2205 for PHYS 1220 is waived and concurrent enrollment is approved.

If intending to apply to graduate school, students should take the physics GRE by fall semester of the senior year.

Students with specific additional interests (e.g. pre-med or another pre-professional program) may wish to move their V/H/C2 courses to alternate semesters so as to take the necessary required courses (e.g. LIFE 1010, MOLB 3000 etc.)

Notes

COURSE SUBSTITUTIONS: WyoTAGs reflect published equivalencies. UW academic departments occasionally arrange for course substitutions when indirect equivalencies exist. Please contact your UW Academic Advisor for details.

EFFECTIVE DATE: This document is in effect as of the 2026-2027 catalog year; it reflects the published UW curriculum as of that date. Any changes to the UW curriculum or the WYCC course equivalents will require this document to be updated. To request an updated document, faculty should contact transfer@uwyo.edu via email.