



Office of
Transfer Relations

Catalog: 2026-2027 University of Wyoming Catalog
Program: Astronomy and Astrophysics, B. S.

Wyoming Transfer Alignment Guide (WyoTAG)

Astronomy and Astrophysics, B. S.

The Bachelor of Science in Astronomy & Astrophysics program prepares students for graduate school, or a career in astronomy/astrophysics or a related field.

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 (U5C1) (COM1)	3		X
C 2-Communication 2 (U5C2) (COM2)	3		X
C 3-Communication 3 (U5C3) (COM3)	3	(Must be completed at UW)	
Q-Quantitative Reasoning (U5Q)	3	MATH 2200	
PN-Physical and Natural World (1) (U5PN)	3	PHYS 1310	
PN-Physical and Natural World (2) (U5PN)	3	PHYS 1320	
H-Human Culture (1) (U5H)	3		X
H-Human Culture (2) (U5H)	3		X
V-US & WY Constitution (U5V)	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.

Degree Requirement

Students in the Bachelor of Science in Astronomy 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
ASTR 1050 - Survey of Astronomy	4	X	X			X	X	
ASTR 2310 - General Astronomy I	4							
ASTR 2320 - General Astronomy II	4							
ASTR 4610 - Introduction to Astrophysics	3							
PHYS 1210 - Engineering Physics I PN OR PHYS 1310 - College Physics I PN	4	NOTE 1	NOTE 1	NOTE 1	NOTE 1	NOTE 1	NOTE 1	NOTE 1
PHYS 1220 - Engineering Physics II PN OR PHYS 1320 - College Physics II PN	4	NOTE 2	NOTE 2	NOTE 2	NOTE 2	NOTE 2	NOTE 2	NOTE 2
PHYS 2310 - Physics III: Waves and Optics	4	X						
PHYS 2320 - Physics IV: Modern Physics	3	X					X	
PHYS 3000 - Methods of Physics	4							
PHYS 3640 - Modern Electronics and Experimental Techniques	4							
PHYS 3650 -Advanced Lab in Modern Physics and Electronics C3	4							
PHYS 4210 - Classical Mechanics I	3							
PHYS 4310 - Quantum Mechanics	3							
PHYS 4410 - Electricity and Magnetism I	3							
PHYS 4420 - Electricity and Magnetism II	3							
PHYS 4510 - Thermodynamics and Statistical Mechanics	3							
PHYS 4840 - Mathematical and Computational Physics II	4							
MATH 2200 - Calculus I	4	X	X	X	X	X	X	X
MATH 2205 - Calculus II	4	X	X	X	X	X	X	X

Degree Requirements continued

Course Name	Credits	Casper	CWC	EWC	LCCC	NWCCD	Northwest	Western
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

Additional Description

See the “Prerequisite and MPE Cut Score Reference Chart” on the Math Placement website for the most up-to-date math placement equivalencies: <http://www.uwyo.edu/mathstats/math-placement/>.

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

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

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

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 in the University Catalog and consult with their academic advisor to plan accordingly.

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

The Bachelor of Science degree in astronomy and astrophysics is administered by the Department of Physics and Astronomy faculty. Please see the Physics and Astronomy listing in this Catalog for more information.

Notes:

Note 1 = PHYS 1310

Note 2 = PHYS 1320

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.