

Astronomy, BS



University of Wyoming, 2016-17

Freshman Fall Semester			Hrs	Min Grade	Notes
		USP First-Year Seminar	3	C	FY
		USP Human Culture	3		H
MATH	2200	Calculus I * **	4	C	Q
PHYS	1310	College Physics I ^ **	4		Can substitute PHYS 1210 (Engineering Physics I).
Credit hours subtotal:			14		

Freshman Spring Semester			Hrs	Min Grade	Notes
		USP Communication 1	3	C	C1
ASTR	2310	General Astronomy I **	4		
MATH	2205	Calculus II **	4	C	
PHYS	1320	College Physics II ^^ **	4		Can substitute PHYS 1220 (Engineering Physics II).
Credit hours subtotal:			15		

Sophomore Fall Semester			Hrs	Min Grade	Notes
		USP Communication 2	3	C	C2
COSC	1010	Introduction to Computer Science I	4		
MATH	2210	Calculus III **	4		
PHYS	2310	Physics III: Waves and Optics **	4		
Credit hours subtotal:			15		

Sophomore Spring Semester			Hrs	Min Grade	Notes
		A&S Core Diversity in the US	3		ASD
ASTR	2320	General Astronomy II **	4		Offered every other spring semester.
MATH	2250	Elementary Linear Algebra	3		
PHYS	2320	Physics IV: Modern Physics **	3		
PHYS	4210	Classical Mechanics I	3		
Credit hours subtotal:			16		

This is a guide for course work in the major; actual course sequence may vary by student. Please refer to the online student degree evaluation, and consult with an academic advisor. • Not all courses are offered every semester and some electives may have prerequisites. Students should review the course descriptions in the *University Catalog* and consult with their academic advisor to plan accordingly.

University of Wyoming requirements:

Students must have a minimum cumulative GPA of 2.0 to graduate. • Students must complete 42 hours of upper division (3000-level or above) coursework, 30 of which must be from the University of Wyoming. • 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.

College of Arts and Sciences requirements:

Students must take two "core" courses in addition to the USP requirements: Diversity in the United States (ASD) and Global Awareness (ASG). • No more than 60 hours in the major subject may be used toward the 120 credit hours required for graduation. • At least 30 hours in the major subject must be completed with a grade of C or better (the major may require more).

Astronomy Program Notes:

* Requires MATH ACT ≥ 27 , MATH SAT ≥ 600 , Math Placement Exam ≥ 5 , or $\geq C$ in MATH 1405 or 1450.

** Not finishing this class in the listed semester may greatly delay degree completion.

^ For declared physics majors, the prerequisite of Math 2200 is waived and concurrent enrollment is approved.

^^ For declared physics majors, the prerequisite of Math 2205 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.

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Junior Fall Semester			Hrs	Min Grade	Notes
MATH	2310	Applied Differential Equations I	3		
PHYS	3640	Modern Electronics & Exper Technique	4		
PHYS	4310	Quantum Mechanics	3		
PHYS	4410	Electricity and Magnetism I	3		
		Upper Division Elective	3		Recommend PHYS 4830 (Mathematical & Computational Physics).
Credit hours subtotal:			16		

Junior Spring Semester			Hrs	Min Grade	Notes
		USP US & Wyoming Constitutions	3		V
ASTR	4610	Introduction to Astrophysics	3		Can substitute another upper division elective.
PHYS	3650	Advanced Lab/Modern Physics & Electronics	4	C	C3
PHYS	4420	Electricity and Magnetism II	3		
PHYS	4840	Mathematical and Computational Physics II	3		Offered every other spring semester; can substitute another upper division elective.
Credit hours subtotal:			16		

Senior Fall Semester			Hrs	Min Grade	Notes
		USP Human Culture	3		H
		USP Physical & Natural World	3		PN
PHYS	4510	Thermodynamics and Statistical Mechanics	3		
		Upper Division Electives	6		
Credit hours subtotal:			15		

Senior Spring Semester			Hrs	Min Grade	Notes
		USP Physical & Natural World	3		PN
		A&S Core Global Awareness	3		ASG
		Upper Division Elective	3		Recommend PHYS 4350 (Advanced Quantum Mechanics).
		Upper Division Electives	6		Recommend ASTR 4610 (Intro to Astrophysics) and/or PHYS 4840 if not taken junior spring semester.
Credit hours subtotal:			15		

TOTAL CREDIT HOURS: 122