



# Astronomy & Astrophysics, BS

## FALL

## SPRING

Course Number	Course Title	USP	Credit	Min Grade	Grade	Course Number	Course Title	USP	Credit	Min Grade	Grade
<b>FRESHMAN YEAR</b>											
MATH 2200	Calculus I	Q	4	C		MATH 2205	Calculus II	Q	4	C	
Prerequisite: C in Math 1405 or 1450, MPE 5, Math ACT 27 or MATH SAT 640						Prerequisite: C in Math 2200					
PHYS 1210	Engineering Physics I	PN	4	D		PHYS 1220	Engineering Physics II	PN	4	D	
Prerequisite: C in MATH 2200 -Concurrent in MATH 2205						Prerequisite: C in MATH 2205 -Concurrent in MATH 2210					
	USP: Communications I	C1	3	C			USP: Communications II	C2	3	C	
Prerequisite: C in C1						Prerequisite: PHYS 1210, MATH 2200					
ASTR 1050	Survey of Astronomy		4	C		ASTR 2310	General Astronomy I		4	D	
Prerequisite: MATH 1400, 1405, or 1450, MPE 2, Math ACT 21, SAT MATH 600						Prerequisite: PHYS 1210, MATH 2200					
<b>Total</b>						<b>Total</b>					
15						15					

<b>SOPHOMORE YEAR</b>											
MATH 2210	Calculus III		4	D		MATH 2250	Elementary Lin. Algebra		3	D	
Prerequisite: C in MATH 2205						Prerequisite: C in MATH 2200					
PHYS 3000	Methods of Physics		4	D		PHYS 2320	Physics IV: Modern Physics		3	D	
Prerequisite: PHYS 1220						Prerequisite: PHYS 1220					
PHYS 2310	Physics III: Waves & Optics		4	D		PHYS 4210	Classical Mechanics I		3	D	
Prerequisite: PHYS 1220						Prerequisite: PHYS 2310 and MATH 2210					
	USP Human Culture	H	3	D		ASTR 2320	General Astronomy II		4	D	
						USP US & WY Constitutions V 3 D					
<b>Total</b>						<b>Total</b>					
15						16					

<b>JUNIOR YEAR</b>											
MATH 2310	Applied Diff. Equations I		3	D		PHYS 3650	Adv. Lab/Mod. Phys. & Elec.	C3	4	C	
Prerequisite: C in MATH 2205						Prerequisite: C in C2, PHYS 2310 or PHYS 2320					
PHYS 3640	Modern Elec. & Exper Techniques		4	D		PHYS 4420	Elec. And Magnetism II		3	D	
Prerequisite: PHYS 2320						Prerequisite: PHYS 4410					
PHYS 4310	Quantum Mechanics		3	D		PHYS 4840	Math. & Comp. Physics II		4	D	
Prerequisite: PHYS 4210						Prerequisite: MATH 2210, PHYS 2320 and PHYS 3000					
PHYS 4410	Electricity and Magnetism I		3	D			Diversity or General Elective		3	D	
Prerequisite: PHYS 2310 and MATH 2210											
	USP Human Culture	H	3	D							
<b>Total</b>						<b>Total</b>					
16						14					

<b>SENIOR YEAR</b>											
PHYS 4510	Thermodyn. & Stat. Mechanics		3	D		ASTR 4610	Intro to Astrophysics		3	D	
Prerequisite: C in PHYS 4310						Prerequisite: ASTR 2310, PHYS 2310, concurrent PHYS 4210, PHYS 4410					
	Global or General Elective		3	D			General Elective		3	D	
						Prerequisite: Varies					
	General Elective		3	D			General Elective		3	D	
						Prerequisite:					
	General Elective		3	D			Upper Division General Elective		3	D	
	Upper Division General Elective		3	D			Upper Division General Elective		2	D	
<b>Total</b>						<b>Total</b>					
15						14					

**Total Program Credits: 120**

**Fall only or spring only course**

- A minimum of 120 hours is required. • A minimum of 42 hours must be upper division. 30 hours of upper division must be completed at UW.
- For PHYS 1210 the prerequisite of MATH 2200 is waived and concurrent enrollment is approved for Physics Majors.
- For PHYS 1220, the prerequisite of MATH 2205 is waived and concurrent enrollment is approved for Physics Majors.
- Degree candidates must meet the academic requirements of the university, and must have a minimum GPA of 2.0
- Students may not take a course for S/U credit to satisfy any requirement, unless the course is offered for S/U credit only.
- ASTR 4610 offered every two years.