

Astronomy, BS



University of Wyoming

Freshman Fall Semester		Hrs	Min Grade	Notes
*	PHYS 1210 College Physics I	4		
*#	MATH 2200 Calculus I	4	C	USP Q
‡	elective USP course	4		USP PN
†	First Year Seminar	3	C	USP FYS
Credit hours subtotal:		15		

Freshman Spring Semester		Hrs	Min Grade	Notes
SS*	ASTR 2310 General Astronomy	4		Prereqs PHYS 1210, MATH 2200
*	PHYS 1220 College Physics II	4		Prereq PHYS 1210
*	MATH 2205 Calculus II	4	C	USP Q; Prereq MATH 2200
#	Communication 1	3	C	USP COM1
Credit hours subtotal:		15		

Sophomore Fall Semester		Hrs	Min Grade	Notes
F*	PHYS 2310 College Physics III - Waves and Optics	4		Prereq PHYS 1220
*	MATH 2210 Calculus III	4		Prereq MATH 2205
	COSC 1010 Computer Science I	4		
‡	elective USP course	3	C	USP COM2
Credit hours subtotal:		15		

Sophomore Spring Semester		Hrs	Min Grade	Notes
SS*	ASTR 2320 General Astronomy	4		Prereqs PHYS 1210, MATH 2200
S*	PHYS 2320 College Physics IV - Modern Physics	3		Prereqs PHYS 1220
S	PHYS 4210 Classical Mechanics I	3		Prereqs PHYS 2310
	MATH 2250 Elementary Linear Algebra	3		Prereqs MATH 2200
‡	elective USP course	3		USP H, ASD
Credit hours subtotal:		16		

Notes:

*Not finishing this class by the listed semester may greatly delay degree completion
 # the university suggests that this USP requirement should be completed in freshman year
 † the university advises that this USP requirement must be completed in freshman year
 S,F only offered in the Spring, Fall semester SS only offered every other Spring semester
 ‡ USPs except FYS & COM must be taken outside of our department. The scheduling of USPs is interchangeable but you must ultimately take 6 credits of H & PN and 3 each of V, COM1, COM2, COM3, FYS & Q. You must also take 3 credits each of the A&S Core required courses (ASD and ASG). Note that to limit to close to 120 total credit hours requires "doubling up" on some requirements (easiest may be ASD and ASG with H)

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Junior Fall Semester		Hrs	Min Grade	Notes
F	PHYS 3640 Modern Electronics & Exper Technique	4		Prereqs PHYS 1220
F	PHYS 4410 Electricity and Magnetism I	3		Prereqs PHYS 4210
F	PHYS 4310 Quantum Mechanics I	3		Prereqs PHYS 4210
	MATH 2310 Applied Differential Equations	3		Prereqs MATH 2205
‡	elective USP course	3		USP H, ASG
Credit hours subtotal:		16		

Junior Spring Semester		Hrs	Min Grade	Notes
SS	ASTR 4610, if offered, or Upper division elective	3		Prereqs ASTR 2310, PHYS 4410
SS	PHYS 4840, if offered, or Upper division elective	3		Prereq COSC 1010
S ‡	PHYS 3650 Advanced Lab Modern Physics	4	C	USP COM3; Prereq PHYS 2320
S	PHYS 4420 Electricity and Magnetism II	3		Prereq PHYS 4410
‡	elective USP course	3		USP V
Credit hours subtotal:		16		

Senior Fall Semester		Hrs	Min Grade	Notes
F	PHYS 4510 Thermodynamics & Statistical Mechanic	3		Prereq PHYS 4310
	Upper division elective (3000 level or higher)	3		
	Upper division elective (3000 level or higher)	3		
	Upper division elective (3000 level or higher)	3		
‡	elective USP course	3		USP PN
Credit hours subtotal:		15		

Senior Spring Semester		Hrs	Min Grade	Notes
SS	ASTR 4610, if not taken, or Upper division elective	3		Prereqs ASTR 2310, PHYS 4410
SS	PHYS 4840, if not taken, or Upper division elective	3		Prereq COSC 1010
SS	Upper division elective, e.g. PHYS 4350	3		
SS	Upper division elective, e.g. PHYS 4830	3		
Credit hours subtotal:		12		

TOTAL CREDIT HOURS: 120

Notes:

** if intending to apply to grad school, take the physics GRE by Fall Semester of the Senior Year

*** A&S requires at least 120 credits and the university requires at least 48 credits at 3000+ level

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