

Physics, 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
	CHEM 1020 General Chemistry I	4		USP PN
†	First-Year Seminar	3	C	USP FYS
Credit hours subtotal:		15		

Freshman Spring Semester		Hrs	Min Grade	Notes
*	PHYS 1220 College Physics II	4		PHYS 1210
*	MATH 2205 Calculus II	4	C	USP Q; Prereq MATH 2200
#	Communication 1	3	C	USP COM1
‡	elective USP course	4		USP PN
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	C	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
S*	PHYS 2320 College Physics IV - Modern Physics	3		Prereq PHYS 1220
S	PHYS 4210 Classical Mechanics I	3		Prereq PHYS 2310
	MATH 2250 Elementary Linear Algebra	3		Prereq MATH 2200
‡	elective USP course	3		USP H, ASD
‡	elective USP course	3		USP V
Credit hours subtotal:		15		

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		Prereq PHYS 1220
F	PHYS 4410 Electricity and Magnetism I	3		Prereq PHYS 4210
F	PHYS 4310 Quantum Mechanics I	3		Prereq PHYS 4210
	MATH 2310 Applied Differential Equations	3		
‡	elective USP course	3		USP H, ASG
Credit hours subtotal:		16		

Junior Spring Semester		Hrs	Min Grade	Notes
‡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
SS	PHYS 4840, if offered, or Upper division elective	3		Prereq COSC 1010
SS	Upper division elective, PHYS 4350, PHYS 4830	3		
	Upper division elective (3000 level or higher)	3		
Credit hours subtotal:		16		

Senior Fall Semester		Hrs	Min Grade	Notes
F	PHYS 4510 Thermodynamics & Statistical Mechanic	3		Prereq PHYS 4310
F	MATH 4440 Partial Differential Equations I	3		Prereq MATH 2210
	Upper division elective (3000 level or higher)	3		
	Upper division elective (3000 level or higher)	3		
	elective (A&S suggests 4-credit Foreign Language)	4		
Credit hours subtotal:		16		

Senior Spring Semester		Hrs	Min Grade	Notes
S	MATH 4230 Introduction to Complex Analysis	3		Prereq MATH 2210
SS	PHYS 4840 if not taken, or Upper division elective	3		Prereq COSC 1010
SS	Upper division elective, PHYS 4350, PHYS 4830	3		
	elective (A&S suggests 4-credit Foreign Language)	4		
Credit hours subtotal:		13		

TOTAL CREDIT HOURS: 121

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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