Physics, BA





The Bachelor of Arts (BA) in Physics degree program provides a pathway for more students to major in physics, as a second major to physical chemistry, mathematics, and engineering, for example.

Freshman Fall Semester				Hrs	Min Grade	Notes
		USP First-Year Seminar		3	С	FY
CHEM	1020	General Chemistry I *		4		PN
MATH	2200	Calculus I ** ***		4	С	Q
PHYS	1310	College Physics I *** ^		4		Can substitute PHYS 1210 (Engineering Physics I).
			C 191 1441	15		

Credit hours subtotal: 15

Freshman Spring Semester	Hrs	Min Grade	Notes
USP Communication 1	3	С	C1
USP Physical & Natural World	4		PN
MATH 2205 Calculus II ***	4	С	
PHYS 1320 College Physics II *** ^^	4		Can substitute PHYS 1220 (Engineering Physics II).

Credit hours subtotal: 15

Sophomore Fall Semester			Hrs	Min Gra	de	Notes
		USP Communication 2	3	С	C2	
COSC	1010	Computer Science I	4			
MATH	2210	Calculus III ***	4			
PHYS	2310	College Physics III: Waves and Optics ***	4		Offe	ered fall semester.
		Credit hours subtotal:	15			

Sophomore Spring Semester			Hrs	Min Grade	Notes
		USP Human Culture ****	3		Н
		A&S Core Global Awareness	3		ASG
PHYS	2320	College Physics IV: Modern Physics ***	3		Offered spring semester.
PHYS	4210	Classical Mechanics I	3		Offered spring semester.
		Elective	3		
		Credit hours subtotal:	<u>15</u>		

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).

Physics BA Program Notes:

- * Requires MATH ACT \geq 23, MATH SAT \geq 600, or Math Placement Exam \geq 3.
- ** Requires MATH ACT > 27, MATH SAT > 600, Math Placement Exam > 5, or > C in MATH 1405 or 1450.
- *** Not finishing this class in the listed semester may greatly delay degree completion.

Physics, BA

Senior Fall Ser

4510

PHYS



Upper Division Electives

Elective



Junior Fall Semester	Hrs	Min Grade	Notes
USP Human Culture	3	Н	
A&S Core Diversity in the US	3	ASD	
MATH 2310 Applied Differential Equations	3		
PHYS 4310 Quantum Mechanics	3	Offered fall semester.	
PHYS 4410 Electricity and Magnetism I	3	Offered fall semester.	

Credit	hours	subtotal	l.	15
Credit	nours	Subtota	1:	13

Junior Spring Semester			Min Grade	Notes
	USP US & Wyoming Constitutions	3		V
PHYS	3650 Advanced Lab/Modern Physics & Electronics	4	С	C3; offered spring semester.
				Recommend PHYS 4830 (Mathematical & Computational Physics I);
	Upper Division Physics Elective	3		offered spring semester.
	Upper Division Elective	3		
	Elective	3		
	Credit hours subtotal:	16		

mester	Hrs	Min Grade	Notes
rmodynamics and Statistical Methods	3		Offered fall only.
			Recommend PHIL 3140 (Philosophy of Science); may take this
er Division Elective	3		semester or another based on course offereing.

Cwadit	house	subtotal:	10
Crean	nones	SHDTOTAL:	15

Senior Spring Semester	Hrs	Min Grade	Notes
			Recommend PHYS 4350 (Advanced Quantum Mechanics); offered
Upper Division Physics Elective	3		spring semester.
Upper Division Electives	9		
Elective	3		
Credit hours subtotal:	<u>15</u>		

Physics BA Program Notes con't:

**** Students are strongly encouraged to enroll in Human Culture requirement courses that correspond to the College of Arts & Sciences Core required US Diversity (ASD) and Global Awareness (G) electives or else they will have to take separate ASD and ASG courses. A list of ASD & ASG courses that transfer is available.

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

TOTAL CREDIT HOURS: 121

[^] For declared physics majors, the <u>prerequisite</u> of Math 2200 is waived and <u>concurrent</u> enrollment is approved.

^{^^} For declared physics majors, the <u>prerequisite</u> of Math 2205 is waived and <u>concurrent</u> enrollment is approved.