



College of Engineering
and Physical Sciences

Physics, BS

FALL

SPRING

Course Number	Course Title	USP	Credit	Min Grade	Grade	Course Number	Course Title	USP	Credit	Min Grade	Grade
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FRESHMAN YEAR

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, Math, or SAT 640					Prerequisite:	C in Math 2200				
PHYS 1210	Engineering Physics I		4	D		PHYS 1220	Engineering Physics II		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	
	USP: Physical/Nat. World	PN	4	D		Prerequisite:	C in C1				
Prerequisite:	Varies						USP: Physical/Nat. World	PN	4	D	
						Prerequisite:	Varies				
Total			15			Total			15		

SOPHOMORE YEAR

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	C	
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				
PHYS 4830	Math. & Compu. Physics I		3	D			USP Human Culture	H	3	C	
Prerequisite:	PHYS 2310 or PHYS 2320 and MATH 2210, MATH 2250, MATH 2310						USP US & WY Constitutions	V	3	C	
Total			15			Total			15		

JUNIOR YEAR

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		Total			14		
Total			16			Total			14		

SENIOR YEAR

PHYS 4510	Thermodyn. & Stat. Mechanics		3	D		PHYS	Upper Div Physics Elective		3	D	
Prerequisite:	C in PHYS 4310					Prerequisite:	Varies				
	Global or General Elective		3	D			General Elective		3	D	
	General Elective		3	D		Prerequisite:	Varies				
	General Elective		3	D			General Elective		3	D	
	General Elective		3	D		Prerequisite:					
	Upper Division General Elective		3	D			General Elective		4	D	
						Prerequisite:					
							Upper Division General Elective		2	D	
Total			15			Total			15		

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.
- CHEM 1020 is recommended for a PN course. If 3-credit PN courses are selected, additional General Electives hours will be required.
- 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.