



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	
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		
						Prerequisite: C in C1						
	USP: Physical/Nat. World	PN	4	D			USP: Physical/Nat. World	PN	4	D		
Prerequisite: Varies						Prerequisite: Varies						
Total			15	Total 15								

SOPHOMORE YEAR

MATH 2210	Calculus III	4	D
Prerequisite: C in MATH 2205			
PHYS 3000	Methods of Physics	4	D
Prerequisite: PHYS 1220			
PHYS 2310	Physics III: Waves & Optics	4	D
Prerequisite: PHYS 1220			
PHYS 4830	Math. & Compu. Physics I	3	D
Prerequisite: PHYS 2310 or PHYS 2320 and MATH 2210, MATH 2250, MATH 2310			
Total		15	

MATH 2250	Elementary Lin. Algebra	3	D	
Prerequisite: C in MATH 2200				
PHYS 2320	Physics IV: Modern Physics	3	C	
Prerequisite: PHYS 1220				
PHYS 4210	Classical Mechanics I	3	D	
Prerequisite: PHYS 2310 and MATH 2210				
USP Human Culture		H	3	C
USP US & WY Constitutions		V	3	C
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			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	
						Prerequisite: Varies					
	General Elective		3	D			General Elective		3	D	
						Prerequisite:					
	General Elective		3	D			General Elective		4	D	
						Prerequisite:					
	Upper Division General Elective		3	D			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.