



# 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	
<i>Prerequisite: C in Math 1405 or 1450, MPE 5, Math ACT 27, Math, or SAT 640</i>					
PHYS 1210	Engineering Physics I		4	D	
<i>Prerequisite: C in MATH 2200 -Concurrent in MATH 2205</i>					
	USP: Communications I	C1	3	C	
	USP: Physical/Nat. World	PN	4	D	
<i>Prerequisite: Varies</i>					
<b>Total</b>			<b>15</b>		

MATH 2205	Calculus II	Q	4	C	
<i>Prerequisite: C in Math 2200</i>					
PHYS 1220	Engineering Physics II		4	D	
<i>Prerequisite: C in MATH 2205 -Concurrent in MATH 2210</i>					
	USP: Communications II	C2	3	C	
<i>Prerequisite: C in C1</i>					
	USP: Physical/Nat. World	PN	4	D	
<i>Prerequisite: Varies</i>					
<b>Total</b>			<b>15</b>		

### SOPHOMORE YEAR

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

MATH 2250	Elementary Lin. Algebra		3	D	
<i>Prerequisite: C in MATH 2200</i>					
PHYS 2320	Physics IV: Modern Physics		3	C	
<i>Prerequisite: PHYS 1220</i>					
PHYS 4210	Classical Mechanics I		3	D	
<i>Prerequisite: PHYS 2310 and MATH 2210</i>					
	USP Human Culture	H	3	C	
	USP US & WY Constitution	V	3	C	
<b>Total</b>			<b>15</b>		

### JUNIOR YEAR

MATH 2310	Applied Diff. Equations I		3	D	
<i>Prerequisite: C in MATH 2205</i>					
PHYS 3640	Modern Elec. & Exper Techniques		4	D	
<i>Prerequisite: PHYS 2320</i>					
PHYS 4310	Quantum Mechanics		3	D	
<i>Prerequisite: PHYS 4210</i>					
PHYS 4410	Electricity and Magnetism I		3	D	
<i>Prerequisite: PHYS 2310 and MATH 2210</i>					
	USP Human Culture	H	3	D	
<b>Total</b>			<b>16</b>		

PHYS 3650	Adv. Lab/Mod. Phys. & Ele	C3	4	C	
<i>Prerequisite: C in C2, PHYS 2310 or PHYS 2320</i>					
PHYS 4420	Elec. And Magnetism II		3	D	
<i>Prerequisite: PHYS 4410</i>					
PHYS 4840	Math. &Comp. Physics II		4	D	
<i>Prerequisite: MATH 2210, PHYS 2320 and PHYS 3000</i>					
	Diversity or General Elective		3	D	
<b>Total</b>			<b>14</b>		

### SENIOR YEAR

PHYS 4510	Thermodyn. & Stat. Mechanics		3	D	
<i>Prerequisite: C in PHYS 4310</i>					
	Global or General Elective		3	D	
	General Elective		3	D	
	General Elective		3	D	
	Upper Division General Elective		3	D	
<b>Total</b>			<b>15</b>		

PHYS	Upper Div Physics Elective		3	D	
<i>Prerequisite: Varies</i>					
	General Elective		3	D	
<i>Prerequisite: Varies</i>					
	General Elective		3	D	
<i>Prerequisite:</i>					
	General Elective		4	D	
<i>Prerequisite:</i>					
	Upper Division General Elective		2	D	
<b>Total</b>			<b>15</b>		

**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.