

# Bachelor of Science in PHYSICS (Astrophysics Option/Fall Start)



**WEBER STATE**  
UNIVERSITY

## Graduation MAP

This is a suggested plan. Meet with an academic advisor to create a specific plan that best fits your academic needs. Remember, taking an average of 15 credit hours per semester facilitates timely graduation.

Catalog Year 2017-2018: MATH 1210 Placement

NAME: \_\_\_\_\_

<input checked="" type="checkbox"/>	Course	Credit Hour	Semester Offered	Milestones & Notes
<b>Freshman (Semester 1)</b>				
	PHYS 2210 PS Physics for Scientists & Engineers I	5	F, Sp	•
	MATH 1210 Calculus I	4	F, Sp, Su	
	MATH 1200 Mathematics Computer Laboratory	1	F, Sp	
	PHYS 2040 Principles of Observational Astronomy	3	F	
	WEB 1504 Information Literacy Comp Exam <b>-or-</b> LIBS 1704 Information Navigator	0.5- 1	F, Sp, Su	
	<b>Total Semester Credits</b>	<b>13.5-14</b>		
<b>Freshman (Semester 2)</b>				
	PHYS 2220 Physics for Scientists & Engineers II	5	F, Sp	•
	MATH 1220 Calculus II	4	F, Sp, Su	
	ENGL 1010 Introductory College Writing	3	F, Sp, Su	
	GE Social Science Elective	3	F, Sp, Su	
	<b>Total Semester Credits</b>	<b>15</b>		
<b>Freshman (Optional)</b>				
				•
	<b>Total Semester Credits</b>			
<b>Sophomore (Semester 3)</b>				
	CHEM 1210 PS Principles of Chemistry I	5	F, Sp, Su	•
	MATH 2210 Calculus III	4	F, Sp, Su	
	PHYS 2710 Modern Physics	3	F	
	ENGL 2010 EN Intermediate College Writing	3	F, Sp, Su	
	<b>Total Semester Credits</b>	<b>15</b>		
<b>Sophomore (Semester 4)</b>				
	CHEM 1220 Principles of Chemistry II <b>-or-</b> *MICR 2054 LS Principles of Microbiology <b>-or-</b> GEO 1110 PS/1115 Dynamic Earth w/Lab	4-5	F, Sp, Su F, Sp F, Sp	• *MICR 2054 will also complete the Life Science Gen Ed requirement (see Semester 7).
	MATH 2280 Ordinary Differential Equations	3	F, Sp	
	GE Humanities Elective	3	F, Sp, Su	
	GE Social Science Elective	3	F, Sp, Su	
	<b>Total Semester Credits</b>	<b>13-14</b>		
<b>Sophomore (Optional)</b>				
				•
	<b>Total Semester Credits</b>			

<input checked="" type="checkbox"/>	Course	Credit Hours	Semester Offered	Milestones & Notes
<b>Junior (Semester 5)</b>				
	PHYS 3500 Analytical Mechanics	3	F	•
	PHYS 3190 Applied Optics <b>-or-</b> PHYS 3410 Electronics for Scientists	3-4	F (odd years only) F	
	PHYS 2300 Computational Physics	3	F	
	GE American Institutions Elective	3	F, Sp, Su	
	GE Creative Arts Elective	3	F, Sp, Su	
	<b>Total Semester Credits</b>	<b>15-16</b>		
<b>Junior (Semester 6)</b>				
	MATH 2270 Elementary Linear Algebra	3	F, Sp, Su	•
	PHYS 3180 Thermal Physics	3	Sp	
	PHYS 3540 Mechanical & Electromagnetic Waves	3	Sp	
	PHYS 3160 Stellar & Planetary Astrophysics <b>-or-</b> PHYS 3170 Galaxies and Cosmology	3	Sp	
	GE Humanities/Creative Arts Elective	3	F, Sp, Su	
	<b>Total Semester Credits</b>	<b>15</b>		
<b>Junior (Optional)</b>				
				•
	<b>Total Semester Credits</b>			
<b>Senior (Semester 7)</b>				
	MATH 3710 Boundary Value Problems	3	F	• *Need 40 Upper Division (3000-level or higher) credit hours to graduate!
	PHYS 3510 Electromagnetic Theory	3	F	
	GE Life Science Elective (if needed)	3-4	F, Sp, Su	
	*Upper Division Electives	6	F, Sp, Su	
	<b>Total Semester Credits</b>	<b>15-16</b>		
<b>Senior (Semester 8)</b>				
	PHYS 4990 Seminars in Physics	1	F, Sp	• *Need 40 Upper Division (3000-level or higher) credit hours to graduate!
	PHYS 4610 Quantum Mechanics	3	Sp	
	PHYS 4400 Advanced Lab	2	Sp	
	PHYS 3160 Stellar & Planetary Astrophysics <b>-or-</b> PHYS 3170 Galaxies & Cosmology	3	Sp	
	PHYS 3540 Mech. And Elec.. Waves	3	F, Sp, Su	
	*Upper Division Electives	3		
	<b>Total Semester Credits</b>	<b>15</b>		
<b>Senior (Optional)</b>				
				•
	<b>Total Semester Credits</b>			
	<b>Total Bachelor Credits</b>	<b>116.5-120*</b>		

**Gen Ed Breadth Requirements (do not duplicate departments)**

<input type="checkbox"/> HU	<input type="checkbox"/> CA	<input type="checkbox"/> HU or CA
<input type="checkbox"/> SS	<input type="checkbox"/> SS	
<input type="checkbox"/> PS	<input type="checkbox"/> LS	<input type="checkbox"/> PS or LS
<input type="checkbox"/> DV (Double dip with Breadth course)		

**Avoid misadvisement!** Consult your academic advisor ([weber.edu/advisors](http://weber.edu/advisors)), the WSU Catalog ([weber.edu/catalog](http://weber.edu/catalog)), and your CatTracks degree evaluation (log into your eWeber Student Portal).

**Revision Date: 4/27/2017**

**Notes:**

- **\*NEED 120 TOTAL CREDIT HOURS TO GRADUATE!**
- **Need 40 Upper Division (3000-level or higher) credit hours to graduate!**