

Bachelor of Science in PHYSICS (Computational 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
Freshman (Semester 1)				
	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	
	WEB 1504 Information Literacy Comp Exam -or- LIBS 1704 Information Navigator	0.5-1	F, Sp, Su	
	ENGL 1010 Introductory College Writing	3	F, Sp, Su	
	Total Semester Credits	13.5-14		
Freshman (Semester 2)				
	PHYS 2220 Physics for Scientists & Engineers II	5	F, Sp	•
	MATH 1220 Calculus II	4	F, Sp, Su	
	CS 1410 Object Oriented Programming	4	F, Sp, Su	
	ENGL 2010 EN Intermediate College Writing	3	F, Sp, Su	
	Total Semester Credits	16		
Freshman (Optional)				
				•
	Total Semester Credits			
Sophomore (Semester 3)				
	MATH 2210 Calculus III	4	F, Sp, Su	•
	PHYS 2300 Computational Physics	3	F	
	PHYS 2710 Modern Physics	3	F	
	GE Social Science Elective	3	F, Sp, Su	
	Electives	3	F, Sp, Su	
	Total Semester Credits	16		
Sophomore (Semester 4)				
	PHYS 3180 Thermal Physics -or- PHYS 3300 Advanced Computational Physics	3	Sp Sp (even years only)	• *If 4-credit hour Life Science class taken, will not need another PS/LS course (see Semester 7)
	MATH 2270 Elementary Linear Algebra	3	F, Sp, Su	
	MATH 2280 Ordinary Differential Equations	3	F, Sp	
	GE Humanities Elective	3	F, Sp, Su	
	*GE Life Science Elective	3-4	F, Sp, Su	
	Total Semester Credits	15-16		
Sophomore (Optional)				
				•
	Total Semester Credits			

<input checked="" type="checkbox"/>	Course	Credit Hours	Semester Offered	Milestones & Notes
Junior (Semester 5)				
	PHYS 3500 Analytical Mechanics	3	F	<ul style="list-style-type: none"> *If Junior Fall (Semester 5) is even year, move to Senior Fall (Semester 7)
	PHYS 3410 Electronics for Scientists	4	F	
	*MATH 4610 Numerical Analysis I	3	F (even only)	
	GE American Institutions Elective	3	F, Sp, Su	
	GE Creative Arts Elective	3	F, Sp, Su	
	Total Semester Credits	16		
Junior (Semester 6)				
	PHYS 3180 Thermal Physics -or- PHYS 3300 Advanced Computational Physics	3	Sp Sp (even years only)	<ul style="list-style-type: none"> *If Junior Spring (Semester 6) is even year, move to Senior Spring (Semester 8)
	PHYS 4400 Advanced Physics Lab	2	Sp	
	*MATH 4610 Numerical Analysis II	3	Sp (odd years only)	
	GE Social Science Elective	3	F, Sp, Su	
	GE Humanities/Creative Arts Elective	3	F, Sp, Su	
	Total Semester Credits	14		
Junior (Optional)				
				<ul style="list-style-type: none">
	Total Semester Credits			
Senior (Semester 7)				
	MATH 3710 Boundary Value Problems	3	F	<ul style="list-style-type: none"> *Need 40 Upper Division (3000-level or higher) credit hours to graduate!
	PHYS 3510 Electromagnetic Theory	3	F	
	CS 2420 Introduction to Data Structures & Algorithms	4	F, Sp, Su	
	GE Physical/Life Science Elective (if needed)	3	F, Sp, Su	
	*Upper Division Elective	3	F, Sp, Su	
	Total Semester Credits	16		
Senior (Semester 8)				
	PHYS 4990 Seminars in Physics	1	F, Sp	<ul style="list-style-type: none"> *Need 40 Upper Division (3000-level or higher) credit hours to graduate!
	PHYS 3540 Mechanics & Electromagnetic Waves -or- PHYS 4610 Quantum Mechanics	3	Sp	
	PHYS 4400 Advanced Lab	2	Sp	
	*Upper Division Electives	6	F, Sp, Su	
	Total Semester Credits	12		
Senior (Optional)				
				<ul style="list-style-type: none">
	Total Semester Credits			
	Total Bachelor Credits	118.5-120*		

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), the WSU Catalog (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!**