

Name:

ID:

Catalog 2024-25

Physics (Astrophysics), Bachelor of Science

This academic degree map is a term-by-term course schedule designed for you to graduate in four years. The sample schedule below serves as a general guideline to building a full-time schedule for each term. Earning a degree requires that you complete (1) the required General Education courses, (2) the course requirements of your major and (3) any requirements PSU has designated for a Bachelor degree. Courses and special notes are specified to keep you on track to graduate in four years. Where open elective is listed, it means that you may take a course of your choosing, perhaps a course in an area outside of your major, but be sure to discuss this with your advisor.

This map is not a substitute for academic advisement – contact your advisor if you have any questions throughout the term and as you begin planning for the next. The University Catalog is also available as a resource with a complete list of requirements for all degrees offered at PSU.

Recommended 4-years to graduation plan

Minor Course or Open Elective

2

14

TOTAL CREDIT HOURS

Code	Semester 1 - FRESHMAN YEAR	Credit	NOTES	Code	Semester 2 - FRESHMAN YEAR		NOTES
ENGL 101	English Composition (SGE) ⁰¹⁰	3	C or better	ENGL 299	Intro to Research Writing (SGE) ⁰¹⁰	3	C or Bette
UGS 150	Gorilla Gateway (SGE) ⁰⁷⁰	2		PHYS 104	Engineering Physics I (or PHYS 100)	4	
CHEM 215	General Chemistry I (SGE) ⁰⁴⁰ Suggested	3		PHYS 130	Elementary Physics Laboratory I	1	
CHEM 216	General Chemistry I Laboratory (SGE) ⁰⁴⁰ Suggested	1 2		MATH 155	Calculus II	5	
MATH 150	Calculus I (SGE) ⁰³⁰	5		Bucket 050	Social & Behaviorial Sciences (SGE) ⁰⁵⁰	3	
	TOTAL CREDIT HOURS	15			TOTAL CREDIT HOURS	16	
			-				
r	Semester 3 - SOPHOMORE YEAR	Credit			Semester 4 - SOPHOMORE YEAR	Credit	
MATH 212	Matrix Algebra	2		MATH 553	Differential Equations	3	
CHEM 225	General Chemistry II	3		COMM 207	Speech Communication (SGE) ⁰²⁰	3	
CHEM 226	General Chemistry II Laboratory	2		DSIS 230	Introduction to Programming (or PHYS 302)	3	
PHYS 105	Engineering Physics II (or PHYS 101)	4		Bucket 060	Arts & Humanities (SGE) ⁰⁶⁰	3	
PHYS 131	Elementary Physics Laboratory II	1		PHYS 500	Mathematical Physics	3	
MATH 253	Calculus III	3		Bucket 070	Institutionally Designated (SGE)070	1	
	TOTAL CREDIT HOURS	15			TOTAL CREDIT HOURS	16	
	Semester 5 - JUNIOR YEAR	Credit			Semester 6 - JUNIOR YEAR	Credit	1
PHYS 516	Modern Physics I	3		PHYS 502	Computational Physics (or PHYS 518)	3	
PHYS 510	Analytical Mechanics	3		PHYS 530	Intermediate Physics Laboratory	3	
Bucket 050	Social & Behaviorial Sciences (SGE) ⁰⁵⁰	3		PHYS 575	Introductory Astrophysics	3	
300+	Minor Course	3		PHYS 512	Electricity & Magnetism	3	
300+	Minor Course	3		300+	Minor Course	3	
<u>1</u> ,	TOTAL CREDIT HOURS				TOTAL CREDIT HOURS	-	
			_				
	Semester 7 - SENIOR YEAR	Credit			Semester 8 - SENIOR YEAR	Credit	
300+	Minor Course	3		PHYS 716	Introductory Quantum Mechanics	3	
300+	Upper Division Elective by Advisement	2		PHYS 699	Senior Review and Assessment	1	
300+	Minor Course	3		PHYS 691	Senior Research Project	2	
Bucket 060	Arts & Humanities (SGE) ⁰⁶⁰	3		PHYS 775	Advanced Astrophysics	3	
100+	Minor Course or Open Elective	3		Bucket 070	Institutionally Designated (SGE) ⁰⁷⁰	3	
		1				1	1

100+

Writing to Learn: Typically one from general education and one in major coursework.

TOTAL CREDIT HOURS

Systemwide General Education (SGE) Key

010 English 020 Communications 030 Math & Statistics 040 Natural & Physical Sciences 050 Social & Behavioral Sciences 060 Arts & Humanities 070 Institutionally Designated

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