

Name:		
ID:		

Catalog 2024-25

Physics (Solid State), 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

Code	Semester 1 - FRESHMAN YEAR	Credit	NOTES	Code	Semester 2 - FRESHMAN YEAR	Credit	NOTES
ENGL 101	English Composition (SGE) ⁰¹⁰	3	C or better	ENGL 299	Intro to Research Writing (SGE) ⁰¹⁰	3	C or Better
UGS 150	Gorilla Gateway (SGE) ⁰⁷⁰	2		Bucket 050	Social & Behaviorial Science (SGE)	3	
CHEM 215	General Chemistry I (SGE) ⁰⁴⁰ Suggested	3		CHEM 225	General Chemistry II	3	
CHEM 216	General Chemistry I Laboratory (SGE) ⁰⁴⁰ Suggested	2		CHEM 226	General Chemistry II Laboratory	2	
MATH 150	Calculus I (SGE) ⁰³⁰ Suggested	5		MATH 155	Calculus II	5	
	TOTAL CREDIT HOURS	15		•	TOTAL CREDIT HOURS	16	
	Semester 3 - SOPHOMORE YEAR	Credit			Semester 4 - SOPHOMORE YEAR	Credit	
COMM 207	Speech Communication (SGE) ⁰²⁰	3		Bucket 050	Social & Behaviorial Science (SGE) ⁰⁵⁰	3	
PHYS 104	Engineering Physics I	4		Bucket 060	Arts & Humanities (SGE) ⁰⁶⁰	3	
PHYS 130	Elementary Physics Laboratory I	1		Bucket 070	Institutionally Designated (SGE) ⁰⁷⁰	1	
DSIS 230	Introduction to Programming (or PHYS 302)	3		PHYS 105	Engineering Physics II	4	
MATH 253	Calculus III	3		PHYS 131	Elementary Physics Laboratory II	1	
				Bucket 060	Arts & Humanities (SGE) ⁰⁶⁰	3	
	TOTAL CREDIT HOURS	14			TOTAL CREDIT HOURS	15	
	Semester 5 - JUNIOR YEAR	Credit			Semester 6 - JUNIOR YEAR	Credit	
PHYS 532	Solid State Electronic Devices (or PHYS 504)	3		300+	Physics Elective	3	
MATH 553	Differential Equations	3		Bucket 070	Institutionally Designated (SGE) ⁰⁷⁰	3	
PHYS 500	Mathematical Physics	3		PHYS 516	Modern Physics I	3	
PHYS 510	Analytical Mechanics	3		PHYS 530	Intermediate Physics Laboratory	3	
PHYS 512	Electrictiy and Magnetism	3		PHYS 714	Statistical Thermodynamics	3	
	TOTAL CREDIT HOURS 15			TOTAL CREDIT HOURS	15	1	
	Semester 7 - SENIOR YEAR	Credit	1		Semester 8 - SENIOR YEAR	Credit	
PHYS 691	Senior Research Project	2		PHYS 699	Senior Review and Assessment	1	
PHYS 716	Introductory Quantum Mechanics	3		300+	Minor Course	3	
PHYS 742	Solid State Physics	3		100+	Open Elective	3	
300+	Minor Course	3		100+	Open Elective	3	
100+	Minor Course	3		300+	Minor Course	3	
				100+	Minor Course	3	
	TOTAL CREDIT HOURS	14			TOTAL CREDIT HOURS	16	

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

Systemwide General Education (SGE) Key

010 English 050 S 020 Communications 060 A

030 Math & Statistics 040 Natural & Physical Sciences 050 Social & Behavioral Sciences 060 Arts & Humanities

070 Institutionally Designated