



Name: \_\_\_\_\_

ID: \_\_\_\_\_

## Physics (Polymer Physics), 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
ENGL 101	English Composition (SGE) <sup>010</sup>	3	C or better
UGS 150	Gorilla Gateway (SGE) <sup>070</sup>	2	
CHEM 215	General Chemistry I (SGE) <sup>040</sup> Suggested	3	
CHEM 216	General Chemistry I Lab (SGE) <sup>040</sup> Suggested	2	
MATH 150	Calculus I (SGE) <sup>030</sup>	5	
<b>TOTAL CREDIT HOURS</b>		<b>15</b>	

Code	Semester 2 - FRESHMAN YEAR	Credit	NOTES
ENGL 299	Intro to Research Writing (SGE) <sup>010</sup>	3	C or Better
DSIS 230	Introduction to Programming (Or PHYS 302)	3	
CHEM 225	General Chemistry II	3	
CHEM 226	General Chemistry II Laboratory	2	
MATH 155	Calculus II	5	
<b>TOTAL CREDIT HOURS</b>		<b>16</b>	

	Semester 3 - SOPHOMORE YEAR	Credit	
COMM 207	Speech Communication (SGE) <sup>020</sup>	3	
PHYS 104	Engineering Physics I (or PHYS 100)	4	
PHYS 130	Elementary Physics Laboratory I	1	
Bucket 050	Social & Behavioral Science (SGE) <sup>050</sup>	3	
CHEM 360	Introduction to Polymer Science and Technology	3	
<b>TOTAL CREDIT HOURS</b>		<b>14</b>	

	Semester 4 - SOPHOMORE YEAR	Credit	
CHEM 625	Polymer Synthesis and Characterizations	3	
CHEM 626	Polymer Synthesis and Characterizations Lab	2	
Bucket 070	Institutionally Designated (SGE) <sup>070</sup>	1	
PHYS 105	Engineering Physics II (or PHYS 101)	4	
PHYS 131	Elementary Physics Laboratory II	1	
Bucket 060	Arts & Humanities (SGE) <sup>060</sup>	3	
<b>TOTAL CREDIT HOURS</b>		<b>14</b>	

	Semester 5 - JUNIOR YEAR	Credit	
PHYS 516	Modern Physics I	3	
CHEM 680	Physical Properties of Polymers	3	
Bucket 060	Arts & Humanities (SGE) <sup>060</sup>	3	
Bucket 050	Social & Behavioral Science (SGE) <sup>050</sup>	3	
500+	Physics Elective	3	
<b>TOTAL CREDIT HOURS</b>		<b>15</b>	

	Semester 6 - JUNIOR YEAR	Credit	
PHYS 500	Mathematical Physics	3	
PHYS 530	Intermediate Physics Laboratory	3	
500+	Physics Elective	3	
300+	Minor Course	3	
300+	Minor Course	3	
<b>TOTAL CREDIT HOURS</b>		<b>15</b>	

	Semester 7 - SENIOR YEAR	Credit	
PHYS 510	Analytical Mechanics	3	
300+	Minor Course	3	
300+	Minor Course	3	
Bucket 070	Institutionally Designated (SGE) <sup>070</sup>	3	
100+	Minor Course	3	
<b>TOTAL CREDIT HOURS</b>		<b>15</b>	

	Semester 8 - SENIOR YEAR	Credit	
PHYS 699	Senior Review and Assessment	1	
PHYS 512	Electricity and Magnetism	3	
100+	Minor Course or Open Elective	3	
100+	Minor Course or Open Elective	3	
100+	Minor Course or Open Elective	3	
100+	Open Elective	3	
<b>TOTAL CREDIT HOURS</b>		<b>16</b>	

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

### Systemwide General Education (SGE) Key

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