

**Providence College - Physics B.S.**  
**Class of 2029**

Core Requirements	Credits
Development of Western Civilization (4)	16
Ethics	3
Philosophy	3
Fine Arts	3
Quantitative Reasoning	<i>MTH 131</i> (4)
Natural Science	<i>CHM 101</i> (4)
Social Science	3
Theology 200 Level	3
Theology 300 Level	3
Intensive Writing I Proficiency	3
Intensive Writing II Proficiency	<i>EPS 202</i> (4)
Oral Communication Proficiency	<i>EPS 201</i> (4)
Diversity Proficiency	3
Civic Engagement Proficiency	3
Free Electives	

Major Requirements	Credits
<b>EPS 101</b> - General Physics I w/ Lab	4
<b>EPS 102</b> - General Physics II w/ Lab	4
<b>EPS 131</b> - Intro to Engineering	1
<b>EPS 201</b> - Intro to Modern Physics w/ Lab	4
<b>EPS 202</b> - Electronics w/ Lab	4
<b>EPS 221</b> - Scientific Programming	3
<b>EPS 301</b> - Mechanics	3
<b>EPS 302</b> - Electromagnetism	3
<b>EPS 401</b> - Classical Dynamics	3
<b>EPS 430</b> - Thermodynamics	3
<b>EPS 448</b> - Applied Quantum Physics	3
<b>EPS 495/496</b> - Research <b>OR</b> <b>EPS 450</b> - Internship	6
<b>MTH 131</b> - Calc & Analytical Geometry I	4
<b>MTH 132</b> - Calc & Analytical Geometry II	4
<b>MTH 223</b> - Calc & Analytical Geometry III	4
<b>MTH 304</b> - Differential Equations	3
<b>MTH 318</b> - Topics in Applied Math	3
<b>CHM 101</b> - General Chemistry I w/ Lab	4
<b>CHM 102</b> - General Chemistry II w/ Lab	4

Graduation Requirements / Degree Notes
- Students at Providence College must complete 120 credits, which includes both their core and major requirements.
- Students at PC need a minimum GPA of 2.0 to graduate.
- PHY major fulfill the Quantitative Reasoning and Natural Science Cores, as well as the Intensive Writing II and Oral Communication Proficiencies.

FRESHMAN YEAR						
FALL			SPRING			
Course #	Class	Credits	Course #	Class	Credits	Total Year Credits
DWC 101	Development of Western Civilization I	4	DWC 102	Development of Western Civilization II	4	
MTH 131	Calc & Analytical Geom. I ( <b>Quant. Reasoning</b> )	4	MTH 132	Calc & Analytical Geometry II	4	
EPS 101	General Physics w/ Lab	4	EPS 102	General Physics II w/ Lab	4	
EPS 131	Intro to Engineering	1		<i>CORE</i>	3	
	<i>CORE</i>	3		<i>CORE</i>	3	
TOTAL		16	TOTAL		18	34

SOPHOMORE YEAR						
FALL			SPRING			
Course #	Class	Credits	Course #	Class	Credits	Total Year Credits
DWC 201	Development of Western Civilization III	4	DWC 202	Development of Western Civilization IV	4	
MTH 223	Calc & Analytical Geometry III	4	MTH 304	Differential Equations	3	
EPS 201	Intro to Modern Physics w/ Lab ( <b>Oral Communication</b> )	4	EPS 301	Mechanics	3	
	<i>CORE</i>	3		<i>CORE</i>	3	
	<i>CORE</i>	3		<i>CORE / FREE ELECTIVE</i>	3	
TOTAL		18	TOTAL		16	34

JUNIOR YEAR						
FALL			SPRING			
Course #	Class	Credits	Course #	Class	Credits	Total Year Credits
MTH 318	Topics in Applied Math	3	EPS 202	Electronics w/ Lab ( <b>Intensive Writing II</b> )	4	
EPS 221	Scientific Programming	3	EPS 430	Thermodynamics	3	
CHM 101	General Chemistry I w/ Lab ( <b>Natural Science</b> )	4	CHM 102	General Chemistry II w/ Lab	4	
	<i>CORE</i>	3		<i>CORE</i>	3	
	<i>CORE</i>	3		<i>CORE / FREE ELECTIVE</i>	3	
TOTAL		16	TOTAL		17	33

SENIOR YEAR						
FALL			SPRING			
Course #	Class	Credits	Course #	Class	Credits	Total Year Credits
EPS 302	Electromagnetism	3	EPS 448	Applied Quantum Physics	3	
EPS 401	Classical Dynamics	3	EPS 496 <b>or</b> 450	Research <b>or</b> Internship	3	
EPS 495 <b>or</b> 450	Research <b>or</b> Internship	3		<i>FREE ELECTIVE</i>	3	
	<i>FREE ELECTIVE</i>	3		<i>FREE ELECTIVE</i>	3	
	<i>FREE ELECTIVE</i>	3		<i>FREE ELECTIVE</i>	3	
TOTAL		15			15	30
<b>TOTAL PROGRAM OF STUDY CREDITS</b>						<b>131</b>