

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 (4)</i>	
Natural Science	<i>CHM 101 (4)</i>	
Social Science		3
Theology 200 Level		3
Theology 300 Level		3
Intensive Writing I Proficiency		3
Intensive Writing II Proficiency	<i>EPS 202 (4)</i>	
Oral Communication Proficiency	<i>EPS 201 (4)</i>	
Diversity Proficiency		3
Civic Engagement Proficiency		3
Free Electives		

Major Requirements		Credits
EPS 101 - General Physics I w/ Lab		4
EPS 102 - General Physics II w/ Lab		4
EPS 131 - Intro to Engineering		1
EPS 201 - Intro to Modern Physics w/ Lab		4
EPS 202 - Electronics w/ Lab		4
EPS 221 - Scientific Programming		3
EPS 301 - Mechanics		3
EPS 302 - Electromagnetism		3
EPS 401 - Classical Dynamics		3
EPS 430 - Thermodynamics		3
EPS 448 - Applied Quantum Physics		3
EPS 495/496 - Research <i>OR</i> EPS 450 - Internship		6
MTH 131 - Calc & Analytical Geometry I		4
MTH 132 - Calc & Analytical Geometry II		4
MTH 223 - Calc & Analytical Geometry III		4
MTH 304 - Differential Equations		3
MTH 318 - Topics in Applied Math		3
CHM 101 - General Chemistry I w/ Lab (Natural Science)		4
CHM 102 - 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
DWC 101	Development of Western Civilization I	4	DWC 102	Development of Western Civilization II	4
MTH 131	Calc & Analytical Geom. I (Quant. Reasoning)	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		CORE	3
	CORE	3		CORE	3
TOTAL		16	TOTAL		18
					34

SOPHOMORE YEAR					
FALL			SPRING		
Course #	Class	Credits	Course #	Class	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 (Oral Communication)	4	EPS 301	Mechanics	3
	CORE	3		CORE	3
	CORE	3		CORE / FREE ELECTIVE	3
TOTAL		18	TOTAL		16
					34

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

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