

Providence College - Biochemistry 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 121 (4)</i>	
Social Science		3
Theology 200 Level		3
Theology 300 Level		3
Intensive Writing I Proficiency		3
Intensive Writing II Proficiency	<i>BIO 200 (3)</i>	
Oral Communication Proficiency	<i>CHM 382 (2)</i>	
Diversity Proficiency		3
Civic Engagement Proficiency		3
Free Electives		

Major Requirements		Credits
<i>CHM 121/122 - Intro Chemistry w/ Lab I and II</i>		8
<i>CHM 221/222 - Org. Chemistry w/ Lab I and II</i>		8
<i>CHM 309/312 - Biochemistry I and II</i>		6
<i>CHM 310L - Biochemistry Lab</i>		3
<i>CHM 321L - Physical Chemistry I w/ Lab</i>		4
<i>CHM 331 - Adv. Analytical Chemistry w/ Lab</i>		4
<i>CHM 381/481/482 - Chemistry Seminar</i>		3
<i>MTH 131/132 - Calc & Analytical Geometry I and II</i>		8
<i>BIO 103/104 - General Biology w/ Lab I and II</i>		8
<i>BIO 200 - Cellular and Molecular Biology</i>		3
<i>BIO 308 - Modern Genetics w/ Lab</i>		4
<i>EPS 101/102 - General Physics w/ Lab I and II</i>		8

Graduation Requirements / Degree Notes		
- Students at Providence College must complete 120 credits, which includes both their core and major requirements.		
- For study abroad: fall of the junior year consultation with department chair should take place, provided one finds equivalent courses to take abroad.		
- Note: CHM 310L and CHM 312 are offered in alternative years.		
- Chemistry Elective may be any 300 or 400 level CHM course, however, if CHM 401 is chosen, students will receive ACS certification.		
- Students at PC need a minimum GPA of 2.0 to graduate.		

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 Geometry I (Quantitative Reasoning)	4	MTH 132	Calc & Analytical Geometry II	4
CHM 121	Intro Chemistry I w/ Lab (Natural Science)	4	CHM 122	Intro Chemistry II w/ Lab	4
BIO 103	General Biology I w/ Lab	4	BIO 104	General Biology II w/ Lab	4
TOTAL		16	CHM 132	Intro to Biochemistry	1
			TOTAL		17
					33

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
CHM 221	Organic Chemistry I w/ Lab	4	CHM 222	Organic Chemistry II w/ Lab	4
EPS 101	General Physics w/ Lab	4	EPS 102	General Physics II w/ Lab	4
BIO 200	Cellular and Molecular Biology (Intensive Writing II)	3		CORE	3
TOTAL		15	TOTAL		15
					30

JUNIOR YEAR					
FALL			SPRING		
Course #	Class	Credits	Course #	Class	Credits
CHM 309	Biochemistry	3	CHM 321	Physical Chemistry I	3
CHM 331	Advanced Analytical Chemistry I w/ Lab	4	CHM 321L	Physical Chemistry I w/ Lab	1
CHM 381	Chemistry Seminar	1	CHM 312	Biochemistry II	3
	CORE	3	CHM 382	Chemistry Seminar (Oral Communication)	2
	CORE / FREE ELECTIVE	3		CORE	3
TOTAL		14		CORE / FREE ELECTIVE	3
			TOTAL		15
					29

SENIOR YEAR					
FALL			SPRING		
Course #	Class	Credits	Course #	Class	Credits
	Chemistry Elective	4	CHM 310L	Biochemistry Lab	3
CHM 481	Chemistry Seminar	2	CHM 482	Chemistry Seminar	0
BIO 308	Modern Genetics w/ Lab	4		CORE / FREE ELECTIVE	3
	CORE	3		CORE / FREE ELECTIVE	3
	CORE	3		CORE	3
TOTAL		16			12
				TOTAL PROGRAM OF STUDY CREDITS	120