

**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	MTH 131 (4)
Natural Science	CHM 121 (4)
Social Science	3
Theology 200 Level	3
Theology 300 Level	3
Intensive Writing I Proficiency	3
Intensive Writing II Proficiency	BIO 200 (3)
Oral Communication Proficiency	CHM 382 (2)
Diversity Proficiency	3
Civic Engagement Proficiency	3
Free Electives	

Major Requirements	Credits
CHM 121/122 - Intro Chemistry w/ Lab I and II	8
CHM 221/222 - Org. Chemistry w/ Lab I and II	8
CHM 309/312 - Biochemistry I and II	6
CHM 310L - Biochemistry Lab	3
CHM 321/321L - Physical Chemistry I w/ Lab	4
CHM 331 - Adv. Analytical Chemistry w/ Lab	4
CHM 381/481/482 - Chemistry Seminar	3
MTH 131/132 - Calc & Analytical Geometry I and II	8
BIO 103/104 - General Biology w/ Lab I and II	8
BIO 200 - Cellular and Molecular Biology	3
BIO 308 - Modern Genetics w/ Lab	4
EPS 101/102 - General Physics w/ Lab I and II	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	Total Year 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		
			CHM 132	Intro to Biochemistry	1		
TOTAL		16	TOTAL		17	33	

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		
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	Total Year 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		
				CORE / FREE ELECTIVE	3		
TOTAL		14	TOTAL		15	29	

SENIOR YEAR							
FALL			SPRING				
Course #	Class	Credits	Course #	Class	Credits	Total Year 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	28	
TOTAL PROGRAM OF STUDY CREDITS						120	