BIOCHEMISTRY (B.S.)

Biochemistry (B.S.) majors complete a minimum of 120 credits to earn a bachelor's degree: 49–51 credits of core courses (https://catalog.salve.edu/undergraduate/curriculum-degree-programs/) and 80–81 credits (22–24 courses) in their major:

Code	Title	Credits
Required Courses	s (Chemistry)	
CHM-113	General Chemistry I	4
CHM-114	General Chemistry II	4
CHM-301	Analytical Chemistry	4
CHM-205	Organic Chemistry I	4
CHM-206	Organic Chemistry II	4
CHM-305	Physical Chemistry I	4
CHM-408	Inorganic Chemistry	4
CHM-410	Topics in Chemistry and Research Capstone	3
Undergraduate Re	esearch:	4
CHM-497	Undergraduate Research I	
or BIO-497	Undergraduate Research	
Required Courses	s (Biology)	
BIO-112	General Biology II	4
BIO-220	Cell Biology and Chemistry	4
BIO-253	Genetics: Classical, Molecular and Population	4
Required Courses	s (Biochemistry)	
BCH-403	Biochemistry	4
BCH-404	Advanced Biochemistry	4
Mathematics	· ·	
MTH-195	Calculus I	4
MTH-196	Calculus II	4
Physics		
PHY-205	Principles of Physics I	4
PHY-206	Principles of Physics II	4
Additional Requir	ed Courses	
Select two of the	following:	6
CHM-425	Chemistry of Proteins	
CHM-430	Molecular Spectroscopy of Bio-Macromolecules	S
CHM-435	Biophysical Chemistry	
CHM-440	Chemical and Enzyme Kinetics	
CHM-445	Medicinal Natural Products	
CHM-450	Total Synthesis of Natural Products	
CHM-455	Organic Chemistry of Drug Design and Drug Addition	
CHM-460	Bioinorganic Chemistry	
CHM-465	Metals in Cells	
Electives		
Select one elective from Additional R	re (3-4 credits) from the following or one course requirements:	3-4
CHM-306	Physical Chemistry II	
CHM-309	Instrumental Analysis	
CHM-407	Advanced Organic Chemistry	
CHM-498	Undergraduate Research II	
BCH-410	Pharmacology and Toxicology	

Total Credits		80-81
BIO-425	Neuroscience	
BIO-420	Immunology	
BIO-399	Special Topics	
BIO-370	Molecular Biology	

Degree Plan for Biochemistry (B.S.)

Course	Title	Credits
First Year		
Fall		
UNV-101	University Seminar	4
& FYT-101	and First Year Studio	
CHM-113	General Chemistry I	4
MTH-195	Calculus I	4
Core Course		3
	Credits	15
Spring		0
Core Course	Hadisənsibə Osasılın və II	3
UNV-102	University Seminar II	3
BIO-112 CHM-114	General Biology II	4
MTH-196	General Chemistry II Calculus II	4
WITTETEO	Credits	18
Second Year	Credits	10
Fall		
RTS-225	The Quest for the Ultimate: Dialogue with Global	3
or PHL-225	Religious Traditions ¹	J
	or Quest for the Good Life	
BIO-220	Cell Biology and Chemistry	4
CHM-205	Organic Chemistry I	4
Core Course		3
Core Course		3
	Credits	17
Spring		
RTS-225	The Quest for the Ultimate: Dialogue with Global	3
or PHL-225	Religious Traditions ¹ or Quest for the Good Life	
Core Course	or quest for the good Life	3
Core Course		3
BIO-253	Genetics: Classical, Molecular and Population	4
CHM-206	Organic Chemistry II	4
	Credits	17
Third Year		
Fall		
CHM-301	Analytical Chemistry	4
BCH-403	Biochemistry	4
PHY-205	Principles of Physics I	4
CHM-497	Undergraduate Research I	1-4
Core Course		3
	Credits	16-19
Spring		
CHM-497	Undergraduate Research I	1-4
Core Course		3
Core Course		3
PHY-206	Principles of Physics II	4
BCH-404	Advanced Biochemistry	4
	Credits	15-18
Fourth Year		
Fall	Dhariad Obarriata	
CHM-305	Physical Chemistry I	4
CHM-410	Topics in Chemistry and Research Capstone	3

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	Credits	17
CHM Elective		4
CHM-408	Inorganic Chemistry	4
CHM Elective		3
CHM-465	Metals in Cells	
CHM-460	Bioinorganic Chemistry	
CHM-455	Organic Chemistry of Drug Design and Drug Addition	
CHM-450	Total Synthesis of Natural Products	
CHM-445	Medicinal Natural Products	
CHM-440	Chemical and Enzyme Kinetics	
CHM-435	Biophysical Chemistry	
CHM-430	Molecular Spectroscopy of Bio-Macromolecules	
CHM-425	Chemistry of Proteins	
Select one CHM Req	uirement:	3
Spring Elective		3
	Credits	16
CHM Elective		3
CHM-465	Metals in Cells	
CHM-460	Bioinorganic Chemistry	
CHM-455	Organic Chemistry of Drug Design and Drug Addition	
CHM-450	Total Synthesis of Natural Products	
CHM-445	Medicinal Natural Products	
CHM-440	Chemical and Enzyme Kinetics	
CHM-435	Biophysical Chemistry	
CHM-430	Molecular Spectroscopy of Bio-Macromolecules	
CHM-425	Chemistry of Proteins	
Select one CHM Req	uirement:	3
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¹ One each semester.