

CHEMISTRY (B.S.)

Chemistry (B.S.) majors complete a minimum of 120 credits to earn a bachelor's degree, including 41–44 credits of core courses (<https://catalog.salve.edu/undergraduate/curriculum-degree-programs/>) and 76–78 credits (20 courses) in their major.

Code	Title	Credits
Major Requirements		
CHM-113	General Chemistry I	4
CHM-114	General Chemistry II	4
CHM-205	Organic Chemistry I	4
CHM-206	Organic Chemistry II	4
CHM-301	Analytical Chemistry	4
CHM-305	Physical Chemistry I	4
CHM-306	Physical Chemistry II	4
CHM-309	Instrumental Analysis	4
CHM-408	Inorganic Chemistry	4
CHM-410	Topics in Chemistry and Research Capstone	3
CHM-497	Undergraduate Research I (four credits)	4
BCH-403	Biochemistry	4
Mathematics		
MTH-195	Calculus I	4
MTH-196	Calculus II	4
MTH-203	Calculus III	4
Physics		
PHY-205	Principles of Physics I	4
PHY-206	Principles of Physics II	4
Electives		
Select 3 courses from the following:		9-11
BIO-113	Biology I	
BIO-114	Biology II	
BIO-220	Cell Biology and Chemistry	
BCH-404	Advanced Biochemistry	
CHM-310	Environmental Chemistry	
CHM-407	Advanced Organic Chemistry	
CHM-425	Chemistry of Proteins	
CHM-430	Molecular Spectroscopy of Bio-Macromolecules	
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	
CHM-498	Undergraduate Research II	
STA-173	Statistical Methods	
MTH-211	Linear Algebra	
MTH-213	Differential Equations	
Total Credits		76-78

Degree Plan for Chemistry (B.S.)

Course	Title	Credits
First Year		
Fall		
FYT-101	First Year Studio	1
UNV-101	University Seminar	3
CHM-113	General Chemistry I	4
MTH-195	Calculus I	4
Core Course		3
		Credits
		15
Spring		
UNV-102	University Seminar II	3
CHM-114	General Chemistry II	4
MTH-196	Calculus II	4
Core Course		3
Core Course		3
		Credits
		17
Second Year		
Fall		
GST-098	Sophomore Studio ¹	1
RTS-225 or PHL-225	The Quest for the Ultimate: Dialogue with Global Religious Traditions ² or Quest for the Good Life	3
CHM-205	Organic Chemistry I	4
PHY-205	Principles of Physics I	4
MTH-203	Calculus III	4
		Credits
		16
Spring		
RTS-225 or PHL-225	The Quest for the Ultimate: Dialogue with Global Religious Traditions ² or Quest for the Good Life	3
CHM-206	Organic Chemistry II	4
PHY-206	Principles of Physics II	4
Core Course		3
Core Course		3
		Credits
		17
Third Year		
Fall		
CHM-301	Analytical Chemistry	4
BCH-403	Biochemistry	4
CHM-497	Undergraduate Research I	1-4
Core Course		3
Core Course		3
		Credits
		15-18
Spring		
CHM-309	Instrumental Analysis	4
CHM-408	Inorganic Chemistry	4
CHM-497	Undergraduate Research I	1-4
Core Course		3
		Credits
		12-15
Fourth Year		
Fall		
CHM-305	Physical Chemistry I	4
CHM-410	Topics in Chemistry and Research Capstone	3
CHM-498	Undergraduate Research II	1-6
CHM Elective		4
		Credits
		12-17
Spring		
CHM-306	Physical Chemistry II	4
CHM-498	Undergraduate Research II	1-6
CHM Elective		4

2 Chemistry (B.S.)

CHM Elective	4
Credits	13-18
Total Credits	120-132

¹ This weekend workshop may be taken in either the fall or spring semester of sophomore year.

² One each semester.