

CHEMISTRY (B.A.) LEADING TO CHEMICAL OR BIOMEDICAL ENGINEERING (B.S.) AT WASHINGTON UNIVERSITY

Students enrolled in the 3+2 engineering dual degree and majoring in chemistry complete a minimum of 120 credits to earn a bachelor's degree. While enrolled at Salve Regina University, students complete a minimum of 41 credits of core courses (<https://catalog.salve.edu/undergraduate/curriculum-degree-programs/>) and 55 credits of major courses. The remaining 24 credits are completed after transfer to Washington University. Before conferral of the B.A. in Chemistry from Salve Regina University, the student must request that Washington University forward transcripts to verify completion of all required course work. See Engineering Dual Degree (<https://catalog.salve.edu/undergraduate/academic-programs/engineering-32-dual-degree/>) for more information.

Code	Title	Credits
Courses required of all chemistry majors		
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-310	Environmental Chemistry	4
CHM-408	Inorganic Chemistry	4
PHY-205	Principles of Physics I	4
PHY-206	Principles of Physics II	4
MTH-195	Calculus I	4
MTH-196	Calculus II	4
Courses required for the pre-engineering pathway		
MTH-203	Calculus III	4
MTH-213	Differential Equations	3
CSC-103	Computer Programming I	3
BIO-220	Cell Biology and Chemistry	4
Total Credits		62

Modified core curriculum required of all dual-degree students (34 credits):

Code	Title	Credits
FYT-101	First Year Studio	1
UNV-101	University Seminar	3
UNV-102	University Seminar II	3
PHL-225	Quest for the Good Life	3
RTS-225	The Quest for the Ultimate: Dialogue with Global Religious Traditions	3
Seven additional core courses, including 6 themed courses in 4 themes		21
Capstone course may be completed at Washington University		
Total Credits		34

Depending on the choice of engineering degree, students should also consider taking:

Code	Title	Credits
CHM-306	Physical Chemistry II	4

Degree Plan for Chemistry (B.A.) Leading to Chemical or Biomedical Engineering (B.S.) at Washington University

Course	Title	Credits
First Year		
Fall		
UNV-101 & FYT-101	University Seminar and First Year Studio	4
CHM-113	General Chemistry I	4
MTH-195	Calculus I	4
Foreign Language ¹		3
Core Course		3
Credits		18
Spring		
Foreign Language ¹		3
UNV-102	University Seminar II	3
CHM-114	General Chemistry II	4
MTH-196	Calculus II	4
Core Course		3
Credits		17
Second Year		
Fall		
PHY-205	Principles of Physics I	4
MTH-203	Calculus III	4
CHM-205	Organic Chemistry I	4
CHM-301	Analytical Chemistry	4
Credits		16
Spring		
PHY-206	Principles of Physics II	4
CHM-206	Organic Chemistry II	4
CHM-408	Inorganic Chemistry	4
Core Course		3
Credits		15
Third Year		
Fall		
CHM-305	Physical Chemistry I	4
CSC-103	Computer Programming I	3
RTS-225	The Quest for the Ultimate: Dialogue with Global Religious Traditions	3
PHL-225	Quest for the Good Life	3
Core Course		3
Credits		16
Spring		
CHM-310	Environmental Chemistry	4
MTH-213	Differential Equations	3
BIO-220	Cell Biology and Chemistry	4
Core Course		3
Credits		14
Fourth Year		
Fourth Year at Washington University		
Credits		0
Fifth Year		
Fifth Year at Washington University		
Credits		0
Total Credits		96

¹ One course each semester.

- Minimum of 120 credits required for undergraduate degree conferral.
- Chemistry (B.A.) 3+2 Pre-Engineering students earn 96 credits at Salve.
- CHM-301 Analytical Chemistry is offered in Odd year fall semesters, CHM-408 Inorganic Chemistry & CHM-309 Instrumental Analysis are offered in even year spring semesters.
- CHM-305 Physical Chemistry I is offered in even year fall semester, CHM-310 Environmental Chemistry is offered in odd year spring semesters.