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

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 40 credits of core courses (https://catalog.salve.edu/undergraduate/curriculum-degree-programs/) (see page 46) and 51 credits of major courses. The remaining 29 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.

Courses required of all chemistry majors (51 credits):

Code	Title	Credits
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
CHM-410	Topics in Chemistry and Research Capstone	3
PHY-205	Principles of Physics I	4
PHY-206	Principles of Physics II	4
MTH-195	Calculus I	4
MTH-196	Calculus II	4
Total Credits		**51**

Modified core curriculum required of all dual-degree students (40 credits):

Code	Title	Credits
FYT-100	First Year Transitions	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
Nine additional core courses, including 6 themed courses in 4 themes		27
Capstone course may be completed at Washington University		
Total Credits		**40**

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

Code	Title	Credits
BIO-111	General Biology I	4
MTH-203	Calculus III	4
MTH-213	Differential Equations	3

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

Course	Title	Credits
First Year		
Fall		
UNV-101 & FYT-100	University Seminar and First Year Transitions	4
CHM-113	General Chemistry I	4
MTH-195	Calculus I	4
Foreign Language [1]		3
Art Core Course		3
	Credits	**18**
Spring		
Foreign Language [1]		
UNV-102	University Seminar II	3
CHM-114	General Chemistry II	4
MTH-196	Calculus II	4
History Core Course		3
	Credits	**14**
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
CSC-103	Computer Programming I	3
CHM-408	Inorganic Chemistry	4
	Credits	**15**
Third Year		
Fall		
CHM-305	Physical Chemistry I	4
MTH-211	Linear Algebra	3
BIO-111	General Biology I [2]	4
RTS-225	The Quest for the Ultimate: Dialogue with Global Religious Traditions	3
PHL-225	Quest for the Good Life	3
	Credits	**17**
Spring		
CHM-310	Environmental Chemistry	4
MTH-213	Differential Equations	3
BIO-112	General Biology II [2]	4
Religion Core Course		3
Philosophy Core Course		3
	Credits	**17**
Fourth Year		
Fourth Year at Washington University		
	Credits	**0**
Fifth Year		
Fifth Year at Washington University		
	Credits	**0**
	Total Credits	**97**

[1]

One course each semester.

[2]

Chemical Engineering track require BIO-112 General Biology II only while the Biomedical Engineering track require a one year sequence of biology, BIO-111 General Biology I and BIO-112 General Biology II.

Fourth and Fifth Year at Washington University

- Minimum of 120 credits required for undergraduate degree conferral.
- Chemistry (B.A.) 3+2 Pre-Engineering students earn 100 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
- NB: Chemical Engineering track requires BIO-112 General Biology II only while the Biomedical Engineering track requires a one-year sequence of biology, BIO-111 General Biology I and BIO-112 General Biology II.