

CHEMISTRY (B.A.) LEADING TO BIOMEDICAL ENGINEERING (B.S.) AT UMASS DARTMOUTH

Students majoring in chemistry complete a minimum of 120 credits to earn a bachelor's degree. While enrolled at Salve Regina University, students complete 43 credits of core courses (<https://catalog.salve.edu/undergraduate/curriculum-degree-programs/>) and 61–62 credits of major courses. Up to 30 credits are completed after transfer to UMass Dartmouth. Before conferral of the B.A. in Chemistry from Salve Regina University, the student must request that UMass Dartmouth forward transcripts to verify completion of all required coursework. 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-408	Inorganic Chemistry	4
One CHM elective at or above the 300 level:		3-4
CHM-310	Environmental Chemistry (recommended)	
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-211	Linear Algebra	3
MTH-213	Differential Equations	3
BIO-113	Biology I	4
Total Credits		61-62

Modified core curriculum required of all dual-degree students:

Code	Title	Credits
FYT-101	First Year Studio	1
GST-098	Sophomore 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
Nine additional core courses. Includes MTH and CHM core courses taken in the major.		29
Total Credits		43

Degree Plan for Chemistry (B.A.) Leading to Biomedical Engineering (B.S.) at UMass Dartmouth

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
Foreign Language ¹		3
Credits		15
Spring		
UNV-102	University Seminar II	3
CHM-114	General Chemistry II	4
MTH-196	Calculus II	4
Foreign Language ¹		3
Art Core Course		3
Credits		17
Second Year		
Fall		
GST-098	Sophomore Studio ²	1
PHY-205	Principles of Physics I	4
MTH-203	Calculus III	4
CHM-205	Organic Chemistry I	4
CHM-301 or CHM-305	Analytical Chemistry ³ or Physical Chemistry I	4
Credits		17
Spring		
PHY-206	Principles of Physics II	4
CHM-206	Organic Chemistry II	4
Select one of the following: ⁴		3-4
CHM-408	Inorganic Chemistry	
Approved CHM Elective 300-level or above		
Literature Core Course		3
Credits		14-15
Third Year		
Fall		
CHM-301 or CHM-305	Analytical Chemistry ³ or Physical Chemistry I	4
MTH-211	Linear Algebra	3
RTS-225	The Quest for the Ultimate: Dialogue with Global Religious Traditions	3
PHL-225	Quest for the Good Life	3
BIO-113	Biology I	4
Credits		17
Spring		
MTH-213	Differential Equations	3
Select one of the following: ⁴		3-4
CHM-408	Inorganic Chemistry	
Approved CHM Elective (300-level or above)		
History Core Course		3
Social Science Core Course		3
Social Science Core Course		3
Credits		15-16
Fourth Year		
Fourth Year at UMass Dartmouth		
Credits		0

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Fifth Year

Fifth Year at UMass Dartmouth	
Credits	0
Total Credits	96-97

¹ One course each semester.

² This weekend workshop may be taken in either the fall or spring semester of sophomore year.

³ CHM-301 Analytical Chemistry is offered in ODD year fall semesters. CHM-305 Physical Chemistry I is offered in EVEN year fall semesters.

⁴ CHM-310 Environmental Chemistry is offered in ODD year spring semesters. CHM-408 Inorganic Chemistry is offered in EVEN year spring semesters.

Minimum of 120 credits required for undergraduate degree conferral. Chemistry (B.A.) 3+2 Pre-Engineering students earn 96–97 credits at Salve.