

Chemistry - Bachelor of Science (SCH5)
Chemistry/Environmental: ACS Certified

Total Credits Required: 128

Required Courses

Department Core Requirements - 50 Credits

Course	Credits
CH 1150 University Chemistry I AND	3
CH 1151 University Chemistry Lab I AND	1
CH 1153 University Chemistry I Recitation	1
OR	
CH 1112 University Chemistry-Studio Lab I	5
CH 1160 University Chemistry II AND	3
CH 1161 University Chemistry Lab II AND	1
CH 1163 University Chemistry II Recitation	1
OR	
CH 1122 University Chemistry-Studio Lab II	5
CH 1130 Orientation	1
CH 2410 Organic Chemistry I	3
CH 2411 Organic Chemistry Lab I	1
CH 2420 Organic Chemistry II	3
CH 2421 Organic Chemistry Lab II	2
CH 2212 Quantitative Analysis	5
CH 3510 Physical Chemistry I	3
CH 3511 Physical Chemistry Lab I	2
CH 3520 Physical Chemistry II	3
CH 3521 Physical Chemistry Lab II	2
CH 4212 Instrumental Analysis	5
CH 4710 Biomolecular Chemistry I	3
CH 4310 Inorganic Chemistry I	3
CH 4311 Inorganic Chemistry Lab I	2
CH 4900 Senior Seminar in Chemistry I	1
CH 4910 Senior Seminar in Chemistry II	1

Math/Science Requirements - 24 Credits

MA 1160 Calculus I	4
MA 2160 Calculus II	4
MA 2321 & MA 3521 Elm Lin Alg & Dif Eq OR	
MA 2320 & MA 3520 Intro Lin Alg & Dif Eq	4
MA 3160 Multivariable Calculus	4
PH 1100 Physics by Inquiry I	1
PH 2100 Univ Physics I-Mechanics	3
PH 1200 Physics by Inquiry II	1
PH 2200 Univ Physics II-Electricity and Mag	3

Concentration Requirement - 17 Credits

Course	Credits
BL 1040 Principles of Biology	4
BL 3310 Environmental Microbiology	3
CH 4515 Atmospheric Chemistry	3
OR	
CH 4519 Transport/Transform Org Pollutants	3
FW 3330 Soil Science	4
GE 3200 Geochemistry	3

General Education Requirements - 28 Credits

UN 1001 Perspectives on Inquiry	3
UN 1002 World Cultures*	4
UN 2001 Revisions	3
UN 2002 Institutions	3
Distribution Courses**	15

Free Electives - 9 Credits

Co-Curricular Activities - 3 Units***

* Two semesters of a single modern language (6 credits) plus UN1003 (1 credit) may be substituted for UN1002

** From HASS Distribution Course Lists: 6 of the 15 credits must be 3XXX or 4XXX level courses.

*** P. E. courses are taught as 0.5 unit classes. Thus 6 of these are needed for 3 units.