

Biochemistry and Molecular Biology- Bachelor of Science Total Credits Required: 128

Required Courses

Core Requirements - 67 Credits

Course	Credits
BL 1040 Principles of Biology	4
BL 2200 Genetics	3
BL 3210 General Microbiology	4
BL 3300 Introduction to Genomics	3
BL 4030 Molecular Biology	3
BL4820 Biochemical Laboratory Techniques	2
BL 4840 Molecular Biology Techniques	3
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 3510 Physical Chemistry I	3
CH 3540 Biophysical Chemistry*	3
CS 1121 Intro Computer Science I	3
MA 1160 Calculus I	4
MA 2160 Calculus II	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 Requirements - 26 Credits

Course	Credits
CH 3511 Physical Chemistry Lab I	2
CH 3541 BioPhysical Chemistry Lab II	2
CH 4222 Intro Quant & Instr Analysis	5
CH 4710 Biomolecular Chemistry I	3
CH 4720 Biomolecular Chemistry II	3
CH 4721 Research Methods Biomolec Chem	3
CH 4910 Senior Seminar in Chemistry II	1
CH 4995 Research in Biochemistry	3
MA2321 Elementary Linear Algebra	2
MA3521 Elementary Differential Equations	2

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 - 7 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.