B.S. Biochemistry and Molecular Biology Degree

A Four Year Outline

FALL		SPRING	
FIRST YEAR			
CH1150 University Chemistry I AND CH1151 University Chemistry Lab I AND CH1153 University Chemistry I Recitation OR	3 1 1	CH1160 University Chemistry II AND CH1161 University Chemistry Lab II AND CH1163 University Chemistry II Recitation OR	3 1 1
CH1112 University Chem-Studio Lab I CH1130 Orientation BL1040 Principles of Biology MA1160 Calculus with Technology I UN1001 Perspectives on Inquiry	5 1 4 4 3	CH1122 University Chem-Studio Lab II MA2160 Calculus with Technology II PH1100 Physics by Inquiry I PH2100 University Physics I-Mechanics UN1002 World Cultures	5 4 1 3 4
TOTAL	17	TOTAL	17
SECOND YEAR			
CH2410 Organic Chemistry I CH2411 Organic Chemistry Lab I PH1200 Physics by Inquiry II PH2200 University Physics II – E&M CS1121 Intro to Programming I UN2002 Institutions General Education Distribution	3 1 1 3 3 3	CH2420 Organic Chemistry II CH2421 Organic Chemistry Lab II MA2321 Elementary Linear Algebra MA3521 Elementary Differential Equations UN2001 Composition General Education Distribution	3 2 2 2 3 3
TOTAL	17	TOTAL	15
THIRD YEAR			
CH3510 Physical Chemistry I CH3511 Physical Chemistry Lab I CH4710 Biomolecular Chemistry I CH4222 Bioanalytical Chemistry General Education Distribution	3 2 3 5 3	CH3540 Biophysical Chemistry CH3541 Biophysical Chemistry Lab CH4720 Biomolecular Chemistry II CH4721 Research Methods Biomolecular Chem BL2200 Genetics General Education Distribution	3 2 3 3 3
TOTAL	16	TOTAL	17
FOURTH YEAR			
BL3210 General Microbiology BL3300 Introduction to Genomics BL4030 Molecular Biology CH4995 Undergrad Research in Biochemistry** General Education Distribution	4 3 3 3 3	CH4910 Chemistry Seminar CH4995 Undergrad Research in Biochemistry** Free Electives	1 3 9
TOTAL	16	TOTAL	13
GRAND TOTAL = 128 Credits			

^{**}Concentration Requirements: 6 credits of CH4995 OR BL4840 AND 3 credits of CH or BL 3000-4000 course(s).

NOTE: 3 Units of co-curricular activities are required (P.E. courses are taught in 0.5 unit classes. Thus, 6 of these are needed for 3 units). It is highly recommended that students take at least one P.E. class during each semester of their first year, if possible.