



Biology Program's Recommended Course Sequences

Associate of Science Degree – Biology Studies (for transfer to UCSD)

First Year

Fall Term			Spring Term			Summer Term	
		Units			Units		Units
Biol 210A	Intro to Biological Sciences I	4.0	Biol 210B	Intro to Biological Sciences II	4.0		
Chem 200	General Chemistry I	3.0	Math 150	Calculus w Analytic Geometry	5.0		
Chem 200L	General Chemistry I Lab	2.0	GE Area	1B (IGETC)	3.0		
GE Area	1A (IGETC)	3.0	GE Area	4 (IGETC)	3.0		
GE Area	3A (IGETC)	3.0					
Total Units		15.0	Total Units		15.0	Total Units	

Second Year

Fall Term			Spring Term			Summer Term	
		Units			Units		Units
Math 151	Calculus w/ Analytic Geom II^	4.0	Math 119	Elementary Statistics^	3.0		
Chem 201	General Chemistry II^	3.0	Chem 231	Organic Chemistry I^	3.0		
Chem 201L	General Chemistry II Lab^	2.0	Chem 231L	Organic Chemistry I Lab^	2.0		
GE Area	4 (IGETC)	3.0	GE Area	3A or 3B (IGETC)	3.0		
GE Area	3B (IGETC)	3.0	GE Area	4 (IGETC)	3.0		
			ExSc	Or any elective for 60 units total for A.S. degree	1.0		
Total Units		15.0	Total Units		15	Total Units	

* This course sequence assumes student has taken all needed pre-requisites (or achieved college-level placement via assessment) for college composition. It also assumes that student has completed all needed prerequisite courses for college calculus and general chemistry and biological sciences. Please see pre-requisite courses listed below.

<u>Course</u>		<u>Prerequisite Course</u>
Biol 210A	Intro to Biological Sciences I	Math 096 (or score of M50 on math assessment for college-level math) AND Chemistry 152+152L (or successfully passing the Chem 152 Challenge Exam)
Chem 200	General Chemistry I	Math 096 (or score of M50 on math assessment for college-level math) AND Chemistry 152+152L (or successfully passing the Chem 152 Challenge Exam)
Math 150	Calculus w Analytic Geometry	Math 141 (Precalculus) or successfully passing Math 141 Challenge Exam – Math 104 (Trigonometry) is prerequisite for Math 141. See math course sequence chart for math pathway.

*If student places below college level, additional math & English pre-requisites will be needed. Student who has passed an AP Calculus exam and other AP exams may already have math and other GE credits; these students should consult a counselor prior to their first semester of study. In addition, student may choose one of two math pathways for UCSD Transfer: 1) 150 & 151 (shown above) OR 2) Math 121-122.

Student may opt to complete all GE requirements on IGETC or follow a 7-Course pattern (to include Areas 1A, 1B, 2A, plus 4 more GE courses from at least two other GE areas). The above educational plan is a complete IGETC pattern with the exception of Area 6A (Language Other Than English), which students may have already completed with 2 years of high school foreign language courses. See a counselor for details.

^These courses are not necessarily required for the Biology Studies A.S. degree; however, they are either required or strongly recommended by UCSD. In addition, student should also try to complete the Organic Chemistry sequence (Chem 233 + 233L) at Miramar College prior to transfer to UCSD.

IMPORTANT: This education plan is an example only. Students who also plan to apply to other universities (such as the CSU system or private & out-of-state institutions) may need to choose specific math, science, and GE courses not shown above. Students need to work with a counselor to identify the most suitable education plan for their needs and goals.