

BS Biology w/Microbiology Concentration 2017-2018

School of Life Sciences

Catalog Year: Fall 2017-2018 ♦ Catalog Expires: Summer 2028 ♦ Graduation: Spring 2021

Biological Sciences majors must complete BIOL 196, BIOL 197, CHEM 121A, 121L, CHEM 122A, 122L, MATH 181 or MATH 127 or MATH 128, ENG 102 or ENG 114 or HON 100 with a C or better (C- is not sufficient) as prerequisites for enrollment in any upper division biology course.		UNLV	College
		120 Total credits	40 credits 300-400 level
General Education	First Year Seminar	2	
	Second Year Seminar	3	
	ENG 101 English Composition I	3	
	ENG 102 English Composition II	3	
	US/NV Constitution HIST 100 or PSC 101	4	
	Humanities Field 1	3	
	Humanities Field 2	3	
	Fine Arts	3	
	Social Science Field 1	3	
	Social Science Field 2	3	
	Social Science Field 3	3	
	Multicultural Δ	0	
	International Δ	0	
	Milestone Experience BIOL 351 in the Biology Core	0	
	Culminating Experience BIOL 415 in the Biology Core	0	
Major	Biology Core:		
	BIOL 196 Modern Biology I	4	
	BIOL 197 Modern Biology II	4	
	BIOL 351 Microbiology	4	4
	BIOL 300 Genetics OR BIOL 304 Molec Genetics	4	4
	BIOL 415 Evolution	3	3
	Biology Upper Division: at least 24 credits		
	A minimum of three courses from: BIOL 405 Molecular Biology, BIOL 409 – Virology, BIOL 418 Microbial Ecology, BIOL 453 – Immunology, BIOL 460 Microbial Physiology, BIOL 464 Bacterial Pathogenesis, BIOL 470 Topics in Applied Microbiology, BIOL 485 Microbial Genetics	9	9
	Remaining credits (to total of 24) selected from course focus lists A - C.	15	15
	<i>Up to 4 credits of BIOL 492 may be used toward concentration total of 24 credits. Up to 2 credits total of BIOL 494 and/or BIOL 499 may be used as electives to satisfy 120 credit total.</i>		
	CHEM121A & 121L General Chemistry I	4	
	CHEM122A & 122L General Chemistry II	4	
	CHEM241L Organic Chemistry I & CHEM241 Organic Chemistry I lab	4	
	CHEM242 Organic Chemistry II & CHEM 242L Organic Chemistry II lab	4	
	CHEM 474 Biochemistry I (CHEM 475 recommended)	3	3
MATH181 Calculus I	4		
PHYS 151/151L General Physics I	4		
PHYS 152/152L General Physics II	4		
STAT 391 - Applied Statistics for Biological Sciences OR STAT 491 - Statistics for Scientists I	3	3	
Elec	General Electives 100-400 level (MATH 182 recommended)	10	
Total Credits:		120	41

Δ A minimum of six (6) credits are required, to be composed of a three-credit multicultural course and a three-credit international course that may simultaneously fulfill other general education requirements. A single course may not simultaneously meet both the multicultural and international requirements. Discuss with your Academic Advisor!

It is strongly recommended that students interested in biomedicine or attending graduate school take additional appropriate upper-division biology courses and research units to meet their elective credit requirements.

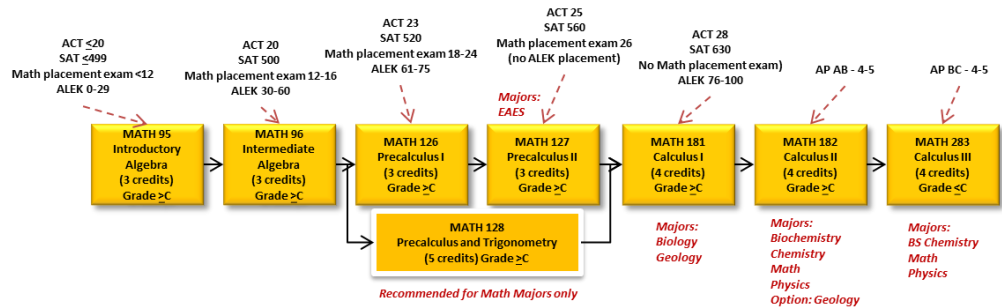
The minimum number of semester credits required for a bachelor's degree for a student graduating under the regulations of the 2016 - 2017 Undergraduate Catalog is 120. At least half of the credits required for a baccalaureate degree at the institution must be earned at a four-year institution.

A candidate for the baccalaureate degree must complete the last 30 UNLV semester credits in uninterrupted resident credit as a declared major in the degree-granting college. A student must declare a major prior to enrolling in their last 30 UNLV resident credits.

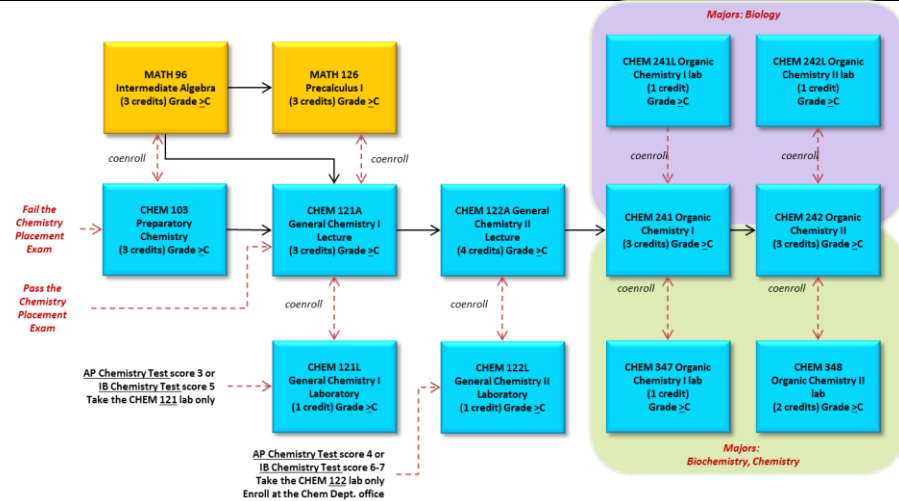
In order to graduate, an undergraduate student must have a minimum cumulative grade point average of 2.00 for the total of all college-level credit attempted at the University of Nevada, Las Vegas (UNLV GPA). College and department GPA requirements must also be met.

LOWER DIVISION PREREQUISITE COURSE SEQUENCES FOR BIOLOGY MAJORS

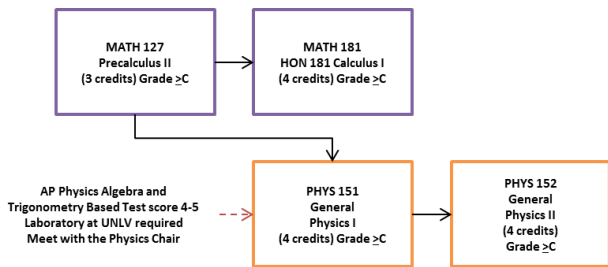
Lower Division Math Sequence



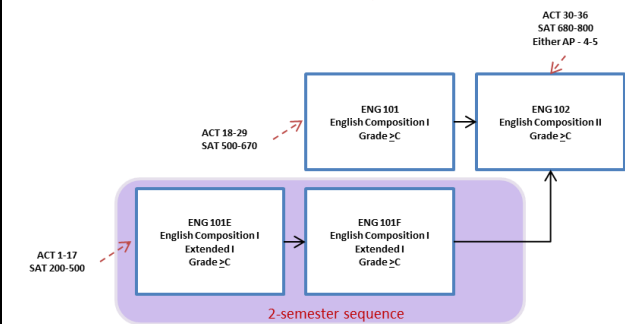
Lower Division Chemistry Sequence



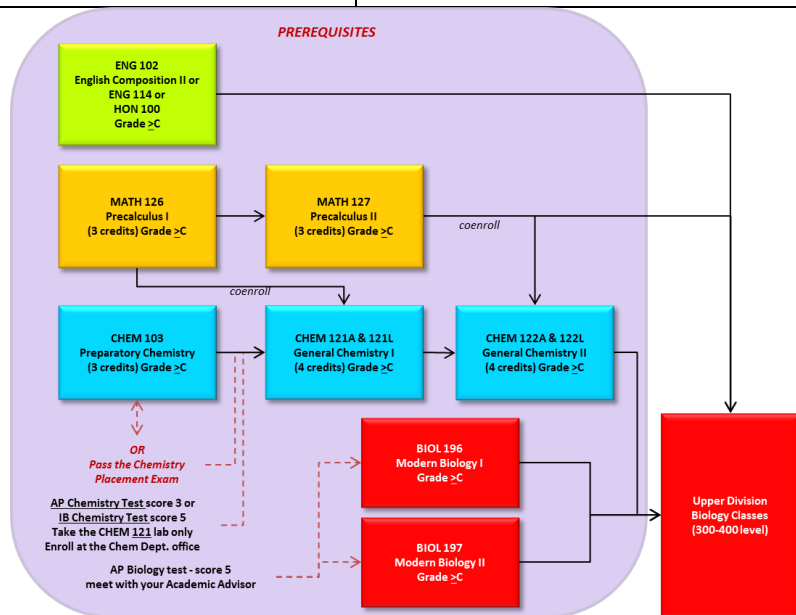
Lower Division Physics Sequence



Lower Division English Sequence



Lower Division Biology Sequence



Read the UNLV Catalog for Upper Division Course Prerequisites <http://catalog.unlv.edu/>