



University of Nevada, Las Vegas (UNLV)
College of Sciences, School of Life Sciences
B.S. Biology - Cell & Molecular Biology Concentration (CAM)
2010-2012 Catalog

University and College Requirements for Graduation

40	A minimum of 40 Upper Division Credits required (ANY 300-400 level course) including credits shown above
124	A minimum of 124 Total Credits required (ANY 100-400 level course) including credits shown above
62	A minimum of 62 credits must be earned at a four-year institution
30	The last 30 credits must be completed in uninterrupted residence as a DECLARED major in the degree-granting college.

Requirement	Required Course	Credits	Required Course	Credits
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General Education Requirements	General Education Core: Minimum grade passing				
	English Composition:		DISTRIBUTION REQUIREMENTS		
	English Composition: ENG 101	3	Humanities and Fine Arts: (see course choices in the catalog--Academic Policies)		
	English Composition: ENG 102	3	Humanities: 2 courses in two different fields	6	
	Literature: Either ENG 231 or 232 (World Literature I or II)	3	Fine Arts: 1 appreciation or introductory course	3	
	United States and Nevada Constitution		Life & Physical Sciences and Analytical Thinking: Exempt		
	<i>One Course Option (fills both US and NV):</i> EITHER HIS 100 or PSC 101		4	Social Sciences: 3 courses in three different fields	
	<i>Two Course Option:</i>		see course choices in the catalog--Academic Policies		
	US Constitution: HIST 101,106,401,412, PSC 304,330,409c, PUA 241	3	Multicultural Requirement: (Multicultural issues within the United States only)		
	NV Constitution: HIST 102,217,402,417A, PSC 100,401D	3	see course choices www.unlv.edu/committees/gec	3*	
Transfer students--see the Advising Center regarding Constitution		International Requirement: (International issues outside the United States only)			
Mathematics: filled by major requirement MATH 181 Calculus I	below	see course choices www.unlv.edu/committees/gec			
		*Courses may simultaneously fill the Humanities, Fine Arts or Social Science requirements, but a single course may not simultaneously meet the Multicultural and International requirements			

Electives	SCI 101 Student Orientation (REQUIRED for all first time freshmen who matriculate Fall 2007 forward)	1
	UNLV electives: 16 credits or enough to reach 124 total credits (these can be ANY 100-400 level courses offered at UNLV)	
	UNLV Upper Division electives: required ONLY to reach 40 Upper Division credits (these can be ANY 300-400 level courses offered at UNLV)	

Biology Cell & Molecular Major Course Requirements	Biology Cell & Molecular Major Course Requirements: Minimum overall BIOLOGY GPA 2.0; minimum 39 credits			
	Biology Core Course Requirements: Minimum grade of C- is required in the Biology Core courses; minimum 19 credits			
	BIOL196/196L Biology I	4	BIOL 351 Microbiology - Prerequisite grade > C- BIOL 196, 197; CHEM 121	3
	BIOL197/197L Biology II	4	BIOL415 Evolution -- prerequisite: grade ≥ C- in BIOL300	3
	BIOL300/300L Genetics OR BIOL 304/304D Molecular Genetics -- prerequisite: ≥C- BIOL196,197;CHEM241,241L			4
	CAM Upper Division Course Requirements (Biology 300 and/or 400 level) A minimum of 5 courses AND 20 upper division Biology credits are required (not incl BIOL 300 & 415) (See lists reverse)			
	(1) BIOL 405 Molecular Biology	3	Select remaining courses from Lists A,B,C,D or E	
	(2) BIOL 425 Genomics	3	(4) List:	4
	(3) BIOL 445 Cell Physiology	3	(5) List:	3
				Additional Biology Upper Division electives to reach 20 UD Biology credits :
			4	

Related Course Requirements	Related Course Requirements: Minimum Grade passing (but ≥C required for Chemistry minor)			
	CHEM 121/121L: Corequisite MATH 127 or 128; prerequisite > C in CHEM 103; or pass Chem Pretest; see-- http://sciences.unlv.edu/Chemistry/policy.htm		CHEM474 Biochemistry I	3
			CHEM475 Biochemistry II	6
	CHEM121/121L General Chemistry I	4	Optional Chem minor: additional credits upper division chemistry	
	CHEM122/122L General Chemistry II	4	Prerequisite ≥C in MATH 127 or 128 for the following:	
	CHEM241 Organic Chemistry I	3	MATH181 Calculus I (MATH 182 also recommended)	4
	CHEM241L Organic Laboratory	1	Either STA 391 Appl Stats for Biol Sci OR STA 491 Stats for Sci I	
	CHEM242 Organic Chemistry II	3	PHYS151/151L General Physics I	4
	CHEM242L Organic Laboratory	1	PHYS152/152L General Physics II	4

UNLV College of Sciences Advising Center
MPE-A 130 702-895-2077

School of Life Sciences
WHI 101 702-895-3390

This worksheet is provided as a reference starting point and is not a substitute or replacement for the requirements of the UNLV 2008-2010 catalog. If there are any conflicts with the UNLV catalog or omissions or inclusions different from the appropriate catalog within this worksheet, the appropriate catalog shall control. There shall be no exceptions to this policy. All students are responsible for and expected to know the requirements of the appropriate catalog as applied to their particular status.