



University of Nevada, Las Vegas (UNLV)
 College of Sciences, School of Life Sciences
B.S. Biology - Microbiology Concentration (MB)
2010-2012 Catalog

University Credit 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 Core: Minimum grade passing					
General Education Core Requirements	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		3*	
*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: required ONLY 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 Microbiology Major Course Requirements: Minimum overall BIOLOGY GPA 2.0					
Biology Core Course Requirements: Minimum grade of C- is required in the Biology <u>Core</u> courses					
Biology Microbiology Major Course Requirements	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 \geq C- in BIOL300	3	
	BIOL300/300L Genetics OR BIOL 304 Molecular Biology -- prerequisite: \geq C- BIOL196,197;CHEM241,241L			3 or 4	
	Microbiology Upper Division Course Requirements (Biology 300 and/or 400 level)				
	A minimum of 28-32 upper division Biology credits are required (not incl BIOL 300 & 415) (See lists reverse)				
	Select 7-19 credits from Lists A, B, C, D or E		Select a minimum of three courses from this list: BIOL 405 Molecular Biology, 409 Virology, 418 Microbial Ecology, BIOL 453 Immunology, 460 Microbial Physiology, 464 Bacterial Pathogenesis, 470 Topics in Applied Microbiology, 485 Microbial Genetics		
	(1) List:	4			
	(2) List:	3	(6)	4	
	(3) List:	4	(7)	3	
	(4) List:	3	(8)	3	
(5) List:	3	1 credit from BIOL 492, 493, 494, 495 or 496 can be used toward the above requirements			
		(9)	1		

Related Course Requirements: Minimum Grade passing (but \geq C required for Chemistry minor)				
Related Course Requirements	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 (CHEM 475 Biochemistry II recommended)	3
			Optional Chem minor: additional credits upper division chemistry	9
	CHEM121/121L General Chemistry I	4	Prerequisite \geq C in MATH 127 or 128 for the following:	
	CHEM122/122L General Chemistry II	4	MATH181 Calculus I (MATH 182 Calculus II recommended)	4
	CHEM241 Organic Chemistry I	3	Either STA 391 Appl Stats for Biol Sci OR STA 491 Stats for Sci I	
	CHEM241L Organic Laboratory	1	PHYS151/151L General Physics I	4
	CHEM242 Organic Chemistry II	3	PHYS152/152L General Physics II	4
	CHEM242L Organic Laboratory	1		

UNLV College of Sciences Advising Center MPE-A 130 702-895-2077	School of Life Sciences WHI 101 702-895-3390
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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.