



University of Nevada, Las Vegas (UNLV)  
College of Sciences, Chemistry Department  
**B.S. Chemistry**  
**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	<b>English Composition:</b>		<b>DISTRIBUTION REQUIREMENTS</b>	
	English Composition: ENG 101	3	<b>Humanities and Fine Arts:</b> (see course choices in the catalog--Academic Policies)	
	English Composition: ENG 102	3	Humanities: 2 courses in two different fields	6
	<b>Literature:</b> Either ENG 231 or 232 (World Literature I or II)	3	Fine Arts: 1 appreciation or introductory course	3
	<b>United States and Nevada Constitution</b>		<b>Life &amp; Physical Sciences and Analytical Thinking:</b> Exempt	
	<i>One Course Option (fills both US and NV):</i> EITHER HIS 100 or PSC 101	4	<b>Social Sciences:</b> 3 courses in three different fields a single course may not simultaneously meet the Multicultural and International requirements	
	<i>Two Course Option:</i>		see course choices in the catalog--Academic Policies	9
	US Constitution: HIST 101,106,401,412, PSC 304,330,409c, PUA 241	3	<b>Multicultural Requirement:</b> (Multicultural issues within the United States only)	
	NV Constitution: HIST 102,217,402,417A, PSC 100,401D	3	see course choices <a href="http://www.unlv.edu/committees/gec">www.unlv.edu/committees/gec</a>	3*
	Transfer students--see the Advising Center regarding Constitution		<b>International Requirement:</b> (International issues outside the United States only)	
<b>Mathematics:</b> filled by major requirement MATH 181 Calculus I	below	see course choices <a href="http://www.unlv.edu/committees/gec">www.unlv.edu/committees/gec</a>	3*	
<small>*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</small>				

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

**Chemistry Major Course Requirements**

**No more than one grade of "D" in any Chemistry Course**

Chemistry Major Course Requirements	CHEM 121/121L: Corequisite MATH 127 or 128; prerequisite > C in CHEM 103; or pass Chem Pretest: see-- <a href="http://sciences.unlv.edu/Chemistry/policy.htm">http://sciences.unlv.edu/Chemistry/policy.htm</a>		CHEM423 Physical Chemistry Lab	2
			CHEM428 Quantum Chemistry	3
	CHEM121/121L General Chemistry I	4	CHEM431 Advanced Inorganic Chemistry	3
	CHEM122/122L General Chemistry II	4	CHEM447 Advanced Synthesis Laboratory	2
	CHEM241 Organic Chemistry I	3	CHEM455 Instrumental Analysis Laboratory	3
	CHEM347 Laboratory Techniques of Organic Chemistry I	1	CHEM455L Instrumental Analysis Laboratory	2
	CHEM242 Organic Chemistry II	3	CHEM474 Biochemistry I	3
	CHEM348 Laboratory Techniques of Organic Chemistry II	2	CHEM491 Senior Seminar in Chemistry	1
	CHEM355 Quantitative Analysis	3	CHEM493 Senior Research I	1
	CHEM355L Quantitative Analysis Laboratory	2	CHEM494 Senior Research II	2
	CHEM402 Scientific Software for the Microcomputer	1	Two courses selected from: CHEM 312, 442, 472, 475, 476, and 492	
	CHEM421 Physical Chemistry I	3	(1)	3
	CHEM422 Physical Chemistry II	3	(2)	3

**Related Course Requirements: Minimum Grade passing**

Related Course Requirements	Required Course	Credits	Required Course	Credits
	MATH 181 Calculus I	4	PHYS 180/180L Engineering Physics I	4
	MATH 182 Calculus II	4	PHYS 181/181L Engineering Physics II	4
	MATH 283 Intermediate Calculus	3	PHYS 182/182L Engineering Physics III	4
	MATH 431 Mathematics for Scientists and Engineers I	3	Statistics Requirement:	
			STAT 152, or 411-412, or 491-492	3

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

Department of Chemistry  
CHE 106 702-895-3510

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.