

College: **College of Sciences**  
 Department: **Chemistry Department**

Requirements for entering terms: **Fall 2014 - Spring 2015**

Catalog Expires (10 yrs): **August 2025**

Graduation: **Spring 2018 - Spring 2019**



|                       | <i>Credit Range</i> |            |
|-----------------------|---------------------|------------|
|                       | <i>Min</i>          | <i>Max</i> |
| General Education:    | 33                  | 42         |
| Chemistry:            | 43                  | 43         |
| Related:              | 19                  | 19         |
| Electives:            | 25                  | 16         |
| <b>Total Credits:</b> | <b>120</b>          | <b>120</b> |



University of Nevada, Las Vegas (UNLV)  
**Chemistry Department**  
 Chemistry Building (CHE-106)  
 702-895-3510  
[www.unlv.edu/chemistry](http://www.unlv.edu/chemistry)

|                         | <i>Course</i>   | <i>Min</i> - <i>Max</i> | <i>Course</i>                                     | <i>Min</i> - <i>Max</i> |
|-------------------------|---|-------------------------|---|-------------------------|
| General Education       | First Year Seminar  | 2 - 3                   | Social Science Field 1                            | 3 - 3                   |
|                         | Second Year Seminar   | 3 - 3                   | Social Science Field 2                            | 3 - 3                   |
|                         | ENG 101 English Composition I   | 3 - 3                   | Social Science Field 3                            | 3 - 3                   |
|                         | ENG 102 English Composition II  | 3 - 3                   | Multicultural**                                   | 0 - 3                   |
|                         | HIST 100 or PSC 101 US/NV Constitution  | 4 - 6                   | International**                                   | 0 - 3                   |
|                         | Humanities Field 1  | 3 - 3                   | Milestone Experience                              | 0 - 0                   |
|                         | Humanities Field 2  | 3 - 3                   | Culminating Experience                            | 0 - 0                   |
|                         | Fine Arts   | 3 - 3                   |   |                         |
| Chemistry               | CHEM121/121L General Chemistry  | 4 - 4                   | CHEM421 Physical Chemistry I                      | 3 - 3                   |
|                         | CHEM122/122L General Chemistry II   | 4 - 4                   | CHEM 455 Instrumental Analysis                    | 3 - 3                   |
|                         | CHEM241 Organic Chemistry I   | 3 - 3                   | CHEM474 Biochemistry I                            | 3 - 3                   |
|                         | CHEM347 Laboratory Techniques of Organic Chemistry  | 1 - 1                   | CHEM 489 Senior Poster Seminar                    | 3 - 3                   |
|                         | CHEM242 Organic Chemistry II  | 3 - 3                   | Choose 9 credits of chemistry including at least  | 9 - 9                   |
|                         | CHEM348 Laboratory Techniques of Organic Chemistry  | 2 - 2                   | 2 credits of advanced laboratory*                 |                         |
|                         | CHEM355 Quantitative Analysis   | 3 - 3                   |   |                         |
|                         | CHEM355L Quantitative Analysis Laboratory   | 2 - 2                   |   |                         |
| Related                 | CS 117 Programming for Sci & Engr OR<br>CS 135 Computer Science I   | 3 - 3                   | PHYS 151 General Physics I                        | 4 - 4                   |
|                         |   |                         | PHYS 152 General Physics II                       | 4 - 4                   |
|                         | MATH181 Calculus I  | 4 - 4                   |   |                         |
|                         | MATH 182 Calculus II  | 4 - 4                   |   |                         |
| Electives               | Upper Division Credits in the Major (300 or 400 level):   | 29 - 29                 | Electives (any level):                            | 14 - 5                  |
|                         | Upper Division Credits Required for the Degree:   | 40 - 40                 | <i>Number of Electives (any level) depends on</i> |                         |
|                         | Upper Division Elective Credits to Complete:  | 11 - 11                 | <i>other course choices</i>                       |                         |
| Notes                   | *Choose 9 credits of chemistry including at least 2 credits of advanced laboratory: CHEM 312 Introduction to Radiochemistry, CHEM 422 Physical Chemistry II, CHEM 423 Physical Chemistry Laboratory, CHEM 428 Quantum Chemistry, CHEM 431 Advanced Inorganic Chemistry, CHEM 442 Advanced Organic Chemistry, CHEM 447 Advanced Synthesis Laboratory, CHEM 455L Instrumental Analysis Laboratory, CHEM 472 Biochemistry Laboratory, CHEM 475 Biochemistry II, CHEM 490 Senior Independent Study in Chemistry, or CHEM 492 Advanced Topics in Chemistry |                         |   |                         |
| University Requirements | **A minimum of six (6) credits are required, to be composed of a three-credit <b>multicultural</b> course and a three-credit <b>international</b> course that <i>may simultaneously fulfill other general education requirements</i> (General Education Requirements are Italized). A single course may not simultaneously meet both the multicultural and international requirements. Discuss with your Academic Advisor!  |                         |   |                         |
|                         | <b>Resident Credit:</b> 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. (Special examination, physical education activity courses, or Distance/ online credits are exempted.)   |                         |   |                         |
|                         | <b>Minimum Credits for Graduation:</b> The minimum number of semester credits required for a bachelor's degree for a student graduating under the regulations of the 2012 - 2014 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.   |                         |   |                         |
|                         | <b>Minimum University Grade Point Average for Graduation:</b> 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.  |                         |   |                         |