# UNLV BS Mathematics w/Actuarial Concentration in Four Years [2014-2015]

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**

| | *Credits* |
|---|---|
| 1st Year : | 30 |
| 2nd Year : | 31 |
| 3rd Year : | 30 |
| 4th Year : | 29 |
| **Total :** | **120** |

*Take 15 credits per semester to graduate in 4 years*

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

## 1st Year

### First Semester

| *Course* | *Credits* |
|---|---|
| *ENG 101 English Composition I* | *3* |
| MATH 181 Calculus I | 4 |
| *Choose First Year Seminar (SCI-101 recommended)* | 2 |
| *HIST 100 or PSC 101 US NV Consitution* | 4 |
| *Choose Social Science Field 1*** | 3 |
| **Total First Semester:** | **16** |

### Second Semester

| *Course* | *Credits* |
|---|---|
| *ENG 102 Composition II* | *3* |
| CS 117 Programming for Scientists and Engineers OR CS 135 Computer Science i | 4 |
| MATH 182 Calculus II | 4 |
| ECON 102 Principles of Microeconomics | 3 |
| **Total Second Semester:** | **14** |

## 2nd Year

### Third Semester

| *Course* | *Credits* |
|---|---|
| MATH 283 Calculus III | 4 |
| MATH 330 Linear Algebra OR MATH 365 Computational Linear Algebra | 3 |
| MATH 251 Discrete Mathematics I | 3 |
| *Choose Second Year Seminar* | 3 |
| ECON 103 Principles of Macroeconomics | 3 |
| **Total Third Semester:** | **16** |

### Fourth Semester

| *Course* | *Credits* |
|---|---|
| MATH 320 Mathematics of Interest | 3 |
| MATH 427 Differential Equations I | 3 |
| Related science course$\Delta$ | 3 |
| Related science course$\Delta$ | 3 |
| *Choose Humanities Field 1*** | 3 |
| **Total Third Semester:** | **15** |

## 3rd Year

### Fifth Semester

| *Course* | *Credits* |
|---|---|
| MATH 463 Advanced Matrix Theory or MATH 466 Numerical methods I | 3 |
| MATH 471 Actuarial Mathematics I | 3 |
| MATH OR STAT from 400-level | 3 |
| FIN 321 Corporate Risk Managaement | 3 |
| *Choose Fine Arts*** | 3 |
| **Total Fifth Semester:** | **15** |

### Sixth Semester

| *Course* | *Credits* |
|---|---|
| MATH 472 Actuarial Mathematrics II | 3 |
| MATH OR STAT from 400-level | 3 |
| MATH OR STAT from 400-level | 3 |
| *Choose Social Science Field 2*** | *3* |
| *Choose Humanities Field 2*** | *3* |
| **Total Sixth Semester:** | **15** |

## 4th Year

### Seventh Semester

| *Course* | *Credits* |
|---|---|
| STAT 411 Statistical Methods I | 3 |
| STAT 467 Introduction to Mathematical Statistics | 3 |
| STAT 488 Senior Research Project in Statistics | 3 |
| Elective (any level) | 3 |
| Elective (any level) | 3 |
| **Total Seventh Semester:** | **15** |

### Eighth Semester

| *Course* | *Credits* |
|---|---|
| STAT 412 Statistical Methods II | 3 |
| Elective (any level) | 2 |
| Related science course$\Delta$ | 3 |
| MATH OR STAT from 400-level | 3 |
| *Choose Social Science Field 3*** | *3* |
| **Total Eighth Semester:** | **14** |

## Notes

**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 (General Educaton Requirements are Italized). A single course may not simultaneously meet both the multicultural and international requirements. Discuss with your Academic Advisor!

$\Delta$Select nine (9) credits, including a LAB course, from BIOL courses numbered 189 and above; CHEM courses numbered 121 and above except CHEM 201, 203; GEOL courses numbered 220 and above; GEOG courses numbered 300 and above: PHYS courses numbered 180 and above; CEE courses numbered 300 and above; CS courses numbered 218 and above; all CpE courses; EE courses numbered 220 and above; all ME courses.