

# BS Mathematics 2016-2017

## Department of Mathematical Sciences

Catalog Year: Fall 2016 - 2017 ♦ Catalog Expires: Summer 2027 ♦ Graduation: Spring 2020

| Requirement   |  | UNLV   | College                  | Dept                             |
|---|--|--|--------------------------|----------------------------------|
|   |  | 120 Total credits  | 40 credits 300-400 level | 80 credits Science & Engineering |
| General Education   | First Year Seminar                             | 2  |                          |                                  |
|   | Second Year Seminar                            | 3  |                          |                                  |
|   | ENG 101 English Composition I                  | 3  |                          |                                  |
|   | ENG 102 English Composition II                 | 3  |                          |                                  |
|   | US/NV Constitution HIST 100 or PSC 101         | 4  |                          |                                  |
|   | Humanities Field 1                             | 3  |                          |                                  |
|   | Humanities Field 2                             | 3  |                          |                                  |
|   | Fine Arts                                      | 3  |                          |                                  |
|   | Social Science Field 1                         | 3  |                          |                                  |
|   | Social Science Field 2                         | 3  |                          |                                  |
|   | Social Science Field 3                         | 3  |                          |                                  |
|   | Multicultural $\Delta$                         | 0  |                          |                                  |
|   | International $\Delta$                         | 0  |                          |                                  |
|   | Milestone Experience                           | 0  |                          |                                  |
|   | Culminating Experience                         | 0  |                          |                                  |
|   | Major  | <i>The program of study must include two one-year 400-level MATH or STAT sequences</i> |                          |                                  |
| MATH181 Calculus I  |  | 4  |                          | 4                                |
| MATH 182 Calculus II  |  | 4  |                          | 4                                |
| MATH 251 Discrete Mathematics I   |  | 3  |                          | 3                                |
| MATH 283 Intermediate Calculus  |  | 4  |                          | 4                                |
| EITHER MATH 330 Linear Algebra OR MATH 365 Computational Linear Algebra |  | 3  | 3                        | 3                                |
| MATH 427 Differential Equations I                                       |  | 3  | 3                        | 3                                |
| MATH 453 Abstract Algebra I   |  | 3  | 3                        | 3                                |
| MATH 457 Introduction to Real Analysis I                                |  | 3  | 3                        | 3                                |
| 400-level MATH or STAT courses  |  | 12   | 12                       | 12                               |
| Science & Engineering from list ♦                                       |  | 5  |                          | 5                                |
| PHYS 180 & 180L Engineering Physics I                                   |  | 4  |                          | 4                                |
| CS 117 Prog for Sci/Eng OR CS 135 Comp Sci I                            |  | 3  |                          | 3                                |
| Electives   | Science or Engineering Electives 100-400 level | 13   |                          | 13                               |
|   | Science or Engineering Electives 300-400 level | 16   | 16                       | 16                               |
|   | General Electives 100-400 level                | 7  |                          |                                  |
| <b>TOTAL CREDITS:</b>   |  | <b>120</b>   | <b>40</b>                | <b>80</b>                        |

$\Delta$ 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. A single course may not simultaneously meet both the multicultural and international requirements. Discuss with your Academic Advisor!

♦ Select five credits from the following: 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 181 and above; CEE courses numbered 241 and above; CS courses numbered 218 and above; CpE courses numbered 300 and above; EE courses numbered 220 and above; ME courses numbered 242 and above.

Every student will be encouraged to take the GRE Advanced Test in Mathematics

The minimum number of semester credits required for a bachelor's degree for a student graduating under the regulations of the 2016 - 2017 Undergraduate Catalog is 120. 80 or more must be in courses offered by the College of Sciences and the College of Engineering. At least half of the credits required for a baccalaureate degree at the institution must be earned at a four-year institution.

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.

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.

## **BS MATHEMATICS, BA MATHEMATICS, BS MATHEMATICS/ACTUARIAL SCIENCE**

### **NSHE Transfers**

Only credits transfer to UNLV from other institutions; grades do not transfer and do not affect GPA at UNLV (this includes other Nevada institutions)

If you receive a passing grade at UNLV and you choose to retake the class, you must do so at UNLV, NOT at CCSN or other NSHE institutions; if you fail a class at UNLV, you may retake the class at CSN or other NSHE institutions.

BIOL 251G (Honors Microbiology) from CSN may fill a requirement for BIOL 351 (BS Biology) at UNLV.

### **Credit Load**

12 semester credits are in many cases the minimum full-time undergraduate credit load required for full time financial aid. However, the university expects students to enroll in 15 credits per semester so the degree can be finished within 4 years. The maximum credits allowed during a regular semester are 17 for freshmen level and 18 for sophomore, junior, and senior levels. Freshmen may not petition for overload. Higher level students may petition only if they have a GPA 3.0 or higher.

### **Student Responsibility for Their Degree**

Students are responsible for knowing and meeting the requirements for graduation. Academic Advisors are available to answer questions that students might have concerning their degree requirements. Students with majors in the College of Sciences are expected to read and understand the following documents.

The UNLV on-line catalog can be located at <http://www.unlv.edu/academics/catalogs>

The students' individualized Degree Audit Report can be found by logging in to MyUNLV.