

NEVADA STATE COLLEGE

SCHOOL OF LIBERAL ARTS & SCIENCES

MATHEMATICS, B.S.

COLLEGE CORE CURRICULUM (33-44 CREDITS)

Unless otherwise noted, please refer to the NSC catalog for full list of core requirements. Note: A single course cannot be used to fulfill both a major and core curriculum requirement. Additionally, a single course cannot fulfill more than one core requirement.

 ENGLISH **3-8 CREDITS**

NSC students can be placed into English courses by submitting ACT or SAT scores, or by completing the Directed Self Placement questionnaire. Students who complete Composition II will satisfy the Core Curriculum requirement. Typically, students take Composition I during their first semester at the college and Composition II during the second semester.

- English Composition I (ENG 100, 101, or 116) 3-5
 English Composition II 3

 STUDY AND TECHNOLOGY SKILLS **0-3 CREDITS**

Transfer students with 30 or more transferrable college credits or students who complete the Nepantla Summer Bridge Program with an average GPA of 3.0 or greater will be able to waive the Study and Technology Skills Core Requirement.

 MATHEMATICS **4 CREDITS**

NSC students can directly self-place into Mathematics, however it is recommended that students place according to their ACT/SAT scores or complete EdReady to better guide their placement. All degree programs require MATH 120 or higher to fulfill the Mathematics Core Curriculum (please see your degree outline for specific course requirements).

The following is required as a Mathematics major within the Core Mathematics requirement:

- MATH 181** | Calculus I 4

 NATURAL SCIENCES **8 CREDITS**

The following is required as a Mathematics major within the Core Natural Science requirement. Please complete 8 credits, from 1 of the following combinations:

- BIOL 190** + | Intro to Cell and Molecular Biology 4
 BIOL 191 + | Intro to Organismal Biology 4

OR

- CHEM 121** + | General Chemistry I 4
 CHEM 122** + | General Chemistry II 4

OR

- PHYS 151** + | General Physics I 4
 PHYS 152** + | General Physics II 4

 SOCIAL SCIENCES **3 CREDITS** FINE ARTS **3 CREDITS** HUMANITIES **6 CREDITS**

- Humanities Core 3
 Humanities Core 3

 CONSTITUTION **3-6 CREDITS**

Completion of US and NV Constitutions required. Complete either one US Constitution course and one NV Constitution course or complete one course that fulfills both US and NV Constitutions (CH 203 or PSC 101).

- Nevada Constitution 0-3
 United States Constitution 0-3

 CULTURAL DIVERSITY **3 CREDITS**

For a full breakdown of requirements for the Mathematics major, please refer to accompanying "Major Degree Checklist"

MAJOR REQUIREMENTS (47 CREDITS)

ADDITIONAL GENERAL ELECTIVES (29-40 CREDITS)

TOTAL CREDITS FOR DEGREE (120 CREDITS)

Check box when requirement is satisfied

**Indicates a prerequisite and/or corequisite is required. Please refer to the catalog or speak to an advisor about these requirements.

This sample degree checklist is a planning tool intended for the current academic year. Each student's situation is unique and your degree may differ from the sample presented here. It is recommended that current NS students review the Academic Requirements report in their Student Center to monitor progress toward their degree and graduation requirements. It is also strongly recommended that you meet regularly with your Academic Advisor to verify degree progression.



SCAN HERE FOR MORE
INFORMATION ON THE COLLEGE
CORE CURRICULUM INCLUDING A
FULL LIST OF ELIGIBLE COURSES

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MATHEMATICS, B.S.

All courses used to fulfill major requirements must be completed with a minimum C-. Grades below a C- carry no credit towards major requirements.

MAJOR REQUIREMENTS (47 CREDITS)

MATH CORE 35 CREDITS

- | | | |
|-------------------------------------|--|---|
| <input type="checkbox"/> CS 135** | Computer Science I | 3 |
| <input type="checkbox"/> MATH 182** | Calculus II | 4 |
| <input type="checkbox"/> MATH 283** | Calculus III | 4 |
| <input type="checkbox"/> MATH 301** | Introduction to Proofs: Logic, Sets, and Functions | 3 |
| <input type="checkbox"/> MATH 330** | Linear Algebra I | 3 |
| <input type="checkbox"/> MATH 352** | Probability and Statistics | 3 |
| <input type="checkbox"/> MATH 427** | Differential Equations | 3 |
| <input type="checkbox"/> MATH 453** | Abstract Algebra | 3 |
| <input type="checkbox"/> MATH 457** | Introduction to Real Analysis I | 3 |
| <input type="checkbox"/> MATH 489** | Advanced Mathematical Topics | 3 |

Choose one of the following:

- | | | |
|-------------------------------------|----------------------------------|---|
| <input type="checkbox"/> MATH 430** | Linear Algebra II | 3 |
| OR | | |
| <input type="checkbox"/> MATH 454** | Abstract Algebra II | 3 |
| OR | | |
| <input type="checkbox"/> MATH 458** | Introduction to Real Analysis II | 3 |

UPPER DIVISION MATHEMATICS ELECTIVES 12 CREDITS

Students must take 12 additional units of MATH or STAT courses at the 300 or 400 level. Any combination of the following courses (NOTE: MATH 491 can be repeated for up to 3 units):

- | | | |
|---|--------------------------------------|---|
| <input type="checkbox"/> MATH or STAT** | MATH or STAT Upper Division Elective | 3 |
| <input type="checkbox"/> MATH or STAT** | MATH or STAT Upper Division Elective | 3 |
| <input type="checkbox"/> MATH or STAT** | MATH or STAT Upper Division Elective | 3 |
| <input type="checkbox"/> MATH or STAT** | MATH or STAT Upper Division Elective | 3 |

TOTAL CREDITS FOR DEGREE (120 CREDITS)

Check box when requirement is satisfied

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COURSE DESCRIPTIONS AND
PREREQUISITES.

