

## NEVADA STATE UNIVERSITY

## SCHOOL OF LIBERAL ARTS, SCIENCES, &amp; BUSINESS

## Data Science, B.S.

## COLLEGE CORE CURRICULUM (31-43 CREDITS)

Unless otherwise noted, please refer to the Nevada State catalog for full list of Core requirements. Classes in the major requirements may be used to satisfy the Core requirements; consult an Academic Advisor for details. Note: A single course cannot fulfill more than one core requirement.

 ENGLISH 3-8 CREDITS

NSU students can be placed into English courses by submitting ACT or SAT scores or by completing the Directed Self Placement survey to better guide their placement. Students who complete Composition II will satisfy the Core Curriculum Composition 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 Nevada State students who complete the Napanla Summer Bridge Program with an average GPA of 3.0 or greater will be able to waive the Study and Technology Skills Core Requirement.

- College Success (CEP 123 or ALS 101N) 2-3

 MATHEMATICS 3-4 CREDITS

NSU students can be placed into Math courses by submitting ACT or SAT scores or by completing the Math Directed Self-Placement survey to better guide their placement. Classes in the major may satisfy this requirement. Please see your degree outline and/or consult an Academic Advisor regarding your specific major requirements.

 NATURAL SCIENCES 7-8 CREDITS

Students are required to take two science courses, at least one of which must include an associated laboratory component.

- Natural Science Core 3-4  
 Natural Science Core with Lab 4

 SOCIAL SCIENCES 3 CREDITS FINE ARTS 3 CREDITS HUMANITIES 6 CREDITS

Classes in the major may satisfy this requirement. Please see your degree outline and/or consult an Academic Advisor.

- 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 Data Science major, please refer to accompanying "Major Degree Checklist"

## MAJOR REQUIREMENTS (50 CREDITS)

## MINOR REQUIREMENTS (18 CREDITS)

## ADDITIONAL GENERAL ELECTIVES (9-21 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.

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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 (50 CREDITS)

## MATHEMATICS AND STATISTICS CORE

17 CREDITS

- MATH 181\*\* | Calculus I 4
- MATH 182\*\* | Calculus II 4
- MATH 330\*\* | Linear Algebra I 3
- STAT 152 | Introduction to Statistics 3
- DATA 330\*\* | Statistical Methods for Data Science 3

Note: STAT 152 may be used to meet the college core curriculum.

## COMPUTER SCIENCE AND DATA SCIENCE CORE

18 CREDITS

- CS 138 | Programming for Data Science in Python I 3
- CS 238\*\* | Programming for Data Science in Python II 3
- DATA 101 | Introduction to Data Science 3
- DATA 210\*\* | Introduction to SQL for Data Science 3
- DATA 220\*\* | Research Methods for Data Science 3
- DATA 310\*\* | Data Visualization 3

## PROFESSIONAL SKILLS

6 CREDITS

Select any two courses from the following list of electives:

- COM 102 | Intro to Interpersonal Communication 3
- COM 315 | Small Group Communication 3
- COM 329\*\* | Business and Professional Speaking 3
- COM 404 | Principles of Persuasion 3
- COM 434 | Communication and Conflict Resolution 3
- ENG 204\*\* | Intro to Professional Writing 3
- ENG 407A\*\* | Fundamentals of Business Writing 3
- ENG 407B\*\* | Fundamentals of Technical Writing 3
- MGT 415\*\* | Business and Society 3

## CAPSTONE OR INTERNSHIP

3 CREDITS

Select one of the following courses:

- DATA 480\*\* | Data Science Capstone 3
- DATA 490\*\* | Internship 1-3

## ELECTIVES

6 CREDITS

Courses may be used as electives if they are not used to fulfill other requirements towards the major:

- Any other 300+ level DATA course 3
- Any other 300+ level DATA, MATH, STAT, or CS course 3

## MINOR REQUIREMENTS (18 CREDITS)

Select and complete any academic minor other than a Data Science Minor.

Note: A second major meets this requirement as well.

## 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.

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