NEVADA STATE UNIVERSITY SCHOOL OF LIBERAL ARTS, SCIENCES, & BUSINESS **BIOLOGY. B.S.**

COLLEGE CORE CURRICULUM (19-44 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.

3-8 CREDITS

Nevada State 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 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.

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

□ MATHEMATICS

3-5 CREDITS

7-8 CREDITS

Nevada State 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.

□ NATURAL SCIENCES

Students are required to take two science courses, at least one of which must include an associated laboratory component. Classes in the major may satisfy this requirement. Please see your degree outline and/or consult an Academic Advisor.

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

	SOCIAL SCIENCES	3 CREDITS
	FINE ARTS	3 CREDITS
	HUMANITIES	6 CREDITS
	Humanities CoreHumanities Core	3 3
	CONSTITUTION	3-6 CREDITS
Completion of US and NV Constitutions required. Complete either of		

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 Biology major, please refer to accompanying "Major Degree Checklist"

MAJOR REQUIREMENTS (71 CREDITS)

ADDITIONAL GENERAL ELECTIVES (9-30 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.

+ Indicates a lab is required.

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.

2023-2024 CATALOG COLLEGE CORE CURRICULUM CHECKLIST

2023-2024 CATALOG MAJOR DEGREE CHECKLIST (PAGE 1)

NEVADA STATE UNIVERSITY SCHOOL OF LIBERAL ARTS, SCIENCES, & BUSINESS **BIOLOGY, B.S.**

16 CREDITS

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 (71 CREDITS)

BIOLOGY CORE COURSES 21 CREDITS □ **BIOL 190**** + | Intro to Cell and Molecular Biology 4 | Intro to Organismal Biology **BIOL 191** + 4 □ BIOL 209** | Cell Processes 3 | Intro to Ecological Principles **BIOL 220**** 3 ENV 220** | Intro to Ecological Principles 3 □ **BIOL 300**** + | Principles of Genetics 4 □ BIOL 415** | Evolution 3 **RELATED MATH/SCIENCE REQUIREMENTS 34 CREDITS** □ CHEM 121** † | General Chemistry | 4 □ CHEM 122** † | General Chemistry II 4 □ CHEM 241** + | Organic Chemistry | 4 □ CHEM 242** + | Organic Chemistry II 4 □ CHEM 474** | Biochemistry | 3 □ MATH 181** | Calculus | 4 □ PHYS 151** + | General Physics | 4 □ PHYS 152** + | General Physics || 4

□ STAT 391** | Applied Statistics for Biological Sciences 3

UPPER DIVISION BIOLOGY ELECTIVES

Students may choose from any of the electives listed below, or may complete the classes specifically required for one of the three optional 16-credit concentrations (Cellular and Molecular Biology; Physiology; Ecology and Evolution). Students should discuss the best option with their advisors.

Students must choose from the following courses (see catalog for prerequisites). At least one elective must be a 4-credit course that has a lab/ field experience component. No more than 6 total credit hours can come from: BIOL 399, BIOL 491, BIOL 492.

□ BIOL 305** Intro to Conservation Biology	3
BIOL 306/CHEM 306 Intro to Scientific Ethics	1
BIOL 319** + Vertebrate Biology	4
□ BIOL 321** Marine Biology	3
BIOL 330** + Plant Biology	3
□ BIOL 340** + Urban Agriculture	4

□ BIOL 350**	Clinical Epidemiology	3
□ BIOL 351** †	Microbiology	4
□ BIOL 405**	Molecular Biology	3
□ BIOL 405L**	Molecular and Cell Biology Techniques	1
□ BIOL 408**	Bioremediation	3
□ BIOL 409**	Virology	3
□ BIOL 414**	Endocrinology	3
□ BIOL 416**	Bioinformatics	3
□ BIOL 419**	Tropical Ecology	3
□ BIOL 428**	Medical Gross Anatomy	4
□ BIOL 433** †	Ornithology	4
□ BIOL 437**	Entomology	4
□ BIOL 440** †	Mammalian Physiology	3
□ BIOL 441**	Field Ecology	4
□ BIOL 447**	Comparative Animal Physiology	4
□ BIOL 448**	Mammalian Physiology - Laboratory	1
□ BIOL 450**	Special Topics	3
□ BIOL 450L**	Special Topics Lab	1
□ BIOL 453**	Immunology	3
□ BIOL 457** †	Molecular and Cellular Immunology	4
□ BIOL 460**	Microbial Physiology	3
□ BIOL 461**	Global Health	4
□ BIOL 462**	Microbial Ecology	3
□ BIOL 470**	Topics in Applied Microbiology	3
□ BIOL 472** †	3,	4
□ BIOL 473**		
	Molecular Biology	3
□ BIOL 474**	,	
	Medical Procedures	4
□ BIOL 475**	0,	3
□ BIOL 493**	Undergraduate Seminar	1
□ BIOL 494**		1
□ BIOL 497**	Senior Thesis	3
□ CHEM 456**	3	3
□ CHEM 472**	, , , , , , , , , , , , , , , , , , ,	2
□ CHEM 475**	,	3
□ NRES 360**	Environmental Instrumentation	4

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TOTAL CREDITS FOR DEGREE (120 CREDITS)

Check box when requirement is satisfied

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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.

2023-2024 CATALOG DEGREE OVERVIEW & NOTES PAGE

NEVADA STATE UNIVERSITY SCHOOL OF LIBERAL ARTS, SCIENCES, & BUSINESS **BIOLOGY, B.S.**

CREDIT REQUIREMENTS

Summary of	credit requirements	for the Bachelor of	Science in Biology
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College Core Curriculum	19-54
Major Requirements	71
General elective credit	9-30

UPPER DIVISION ELECTIVE REQUIREMENTS UPPER DIVISION CREDITS Must be 300-400 level	9	CREDITS COMPLETED	CREDITS REMAINING
ADDITIONAL GRADUATION REQUIREMENTS 120 CREDITS College credits earned (minimum; must be 100 level or above) RESIDENCY RULE Upper division credits from Nevada State (minimum)	120 30	CREDITS COMPLETED	CREDITS REMAINING

ADVISOR NOTES

STUDENT NOTES