NEVADA STATE COLLEGE SCHOOL OF LIBERAL ARTS & SCIENCES **BIOLOGY, 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

4

8 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 Biology major within the Core Mathematics requirement:

MATH 181** | Calculus |

□ NATURAL SCIENCES

The following is required as a Biology major within the Core Natural Science requirement:

□ CHEM 121** +	General Chemistry I	4
□ CHEM 122** †	General Chemistry II	4

SOCIAL SCIENCES	3 CREDITS
FINE ARTS	3 CREDITS
HUMANITIES	6 CREDITS
Humanities CoreHumanities Core	3 3

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 (59 CREDITS)

ADDITIONAL GENERAL ELECTIVES (17-28 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.



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

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2022-2023 CATALOG COLLEGE CORE CURRICULUM CHECKLIST

3-6 CREDITS

NEVADA STATE COLLEGE SCHOOL OF LIBERAL ARTS & SCIENCES **BIOLOGY, 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 (59 CREDITS)

BIOLOGY CORE COURSES 21 Cl BIOL 190** † Intro to Cell and Molecular Biology BIOL 191 † Intro to Organismal Biology

□ BIOL 209**	Cell Processes	3		
BIOL 220**	Intro to Ecological Principles	3		
□ OR				
ENV 220**	Intro to Ecological Principles	3		
□ BIOL 300** †	Principles of Genetics	4		
□ BIOL 415**	Evolution	3		
RELATED MATH/SCIENCE REQUIREMENTS 22 CREE				
□ CHEM 241** †	Organic Chemistry I	4		
	1 Organic Chemistry II	1		

	5	
CHEM 242** +	Organic Chemistry II	4
CHEM 474**	Biochemistry I	3
PHYS 151** †	General Physics I	4
PHYS 152** †	General Physics	4
STAT 391**	Applied Statistics for Biological Sciences	3

UPPER DIVISION BIOLOGY ELECTIVES

16 CREDITS

21 CREDITS

4

4

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

□ BIOL 305**	Intro to Conservation Biology	3
□ BIOL 306/CHEM	1 306 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

MAJOR DEGREE CHECKLIST (PAGE 1)

2022-2023 CATALOG

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** †	Limnology	4
BIOL 473**	Advanced Topics in Cell and	
	Molecular Biology	3
BIOL 474**	History & Evolution of Medicine and	
	Medical Procedures	4
BIOL 475**	Neurobiology	3
BIOL 493**	Undergraduate Seminar	1
BIOL 494**	Biology Colloquium	1
BIOL 497**	Senior Thesis	3
CHEM 456**	Medical Biochemistry	3
CHEM 472**	Biochemistry Laboratory	2
CHEM 475**	Biochemistry II	3
NRES 360**	Environmental Instrumentation	4

TOTAL CREDITS FOR DEGREE (120 CREDITS)

Check box when requirement is satisfied

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SCAN HERE FOR MORE PROGRAM INFORMATION INCLUDING COURSE DESCRIPTIONS AND PREREQUISITES.

NEVADA STATE COLLEGE SCHOOL OF LIBERAL ARTS & SCIENCES

BIOLOGY (PharmD Track with Roseman University), B.S.

17 CREDITS

OPTIONAL BIOLOGY CONCENTRATIONS

Concentrations are optional for the biology major. If students complete one of the three biology concentrations options (physiology, cellular & molecular biology, evolution & ecology), the courses will count towards the 16 upper division biology electives credits required for the degree.

At least one elective must be a 4-credit course that has a lab/field experience component. No more than 6 total hours can come from: BIOL 399, BIOL 491, BIOL 492:

PHARMD TRACK WITH ROSEMAN UNIVERSITY UPPER DIVISION BIOLOGY ELECTIVES

□ BIOL 428**	Medical Gross Anatomy	4
□ BIOL 440** †	Mammalian Physiology	3
□ BIOL 448**	Mammalian Physiology - Laboratory	1
□ PHAR 410**	Fundamentals of Drug Action &	
	Metabolism	4.5
□ PHAR 411**	Fundamentals of Molecular Biology,	
	Nucleotide Metabolism, and	
	Pharmacogenomics	3
□ PHAR 422**	Gastrointestinal, Genitourinary and	
	Skeletal Muscle: Pharmacology and	
	Medicinal Chemistry	1.5
GENERAL ELECTIVES	S 2 CRI	EDITS
□ PHAR 414**	Drug Information and Literature	
	Evaluation I	2
UPPER DIVISION ELE	CTIVES 11 CRI	EDITS
□ PHAR 413**	Hematology and immunology	5
□ PHAR 420**	Neuropharmacology and Medicinal	
	Chemistry	6

Check box when requirement is satisfied

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

CREDIT REQUIREMENTS

Summary of credit requirements for the Bachelor of Science in Biology.

College Core Curriculum	33-44			
Major Requirements	59			
UPPER DIVISION ELECTIVE REQUIREMENTS UPPER DIVISION CREDITS Must be 300-400 level	9		CREDITS COMPLETED	CREDITS REMAINING
ADDITIONAL GRADUATION REQUIREMENTS	(must be 100 level or above)	120	CREDITS COMPLETED	CREDITS REMAINING
RESIDENCY RULE Upper division credits from Ne	vada State (minimum)	30		
□ 4-YEAR RULE Credits from a 4-year institutio	n (minimum)	60		

ADVISOR NOTES

STUDENT NOTES

2022-2023 CATALOG DEGREE OVERVIEW & NOTES PAGE