NAME & NSHE ID #:

2021-2022 CATALOG **COLLEGE CORE CURRICULUM** CHECKLIST

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)

☐ English Composition II

3-5

3

4

☐ 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 Biology major within the Core Mathematics requirement:

☐ MATH 181** | Calculus |

8 CREDITS □ NATURAL SCIENCES

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

☐ CHEM 121** † | General Chemistry | 4

☐ CHEM 122** † | General Chemistry || 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

□ 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**

21 CREDITS

16 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

	BIOL 190** †	Intro to Cell and Molecular Biology	4
	BIOL 191 †	Intro to Organismal Biology	4
	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
REI	LATED MATH/SCIE	ENCE REQUIREMENTS 22 CRE	DITS
REI		ENCE REQUIREMENTS 22 CRE Organic Chemistry I	DITS 4
REI		Organic Chemistry I	
REI	CHEM 241** †	Organic Chemistry I Organic Chemistry II	4
REI	CHEM 241** † CHEM 242** †	Organic Chemistry I Organic Chemistry II Biochemistry I	4 4
REI	CHEM 241** † CHEM 242** † CHEM 474**	Organic Chemistry I Organic Chemistry II Biochemistry I	4 4 3
REI	CHEM 241** † CHEM 242** † CHEM 474** PHYS 151** †	Organic Chemistry I Organic Chemistry II Biochemistry I General Physics I	4 4 3 4 4

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.

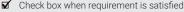
Students must choose from the following courses (see catalog for prerequisites). At least one elective must be a 4-credit course that has a lab/field experience component

BIOL 305**	Intro to Conservation Biology	3
BIOL 306	Introduction 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**	I	Molecular and Call Pialagy Tachniques	1
		Ċ	Molecular and Cell Biology Techniques Bioremediation	
				3
			Virology	3
			Endocrinology	3
			Bioinformatics	3
			Tropical Ecology	3
			Medical Gross Anatomy	4
			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

TOTAL CREDITS FOR DEGREE (120 CREDITS)

□ NRES 360** | Environmental Instrumentation



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

[†] Indicates a lab is required.

NEVADA STATE COLLEGE

SCHOOL OF LIBERAL ARTS & SCIENCES

BIOLOGY (Evolution & Ecology Concentration), B.S.

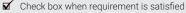
OPTIONAL BIOLOGY CONCENTRATIONS

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.

CONCENTRATION IN EVOLUTION AND ECOLOGY

-			210201101171115 2002001				
	BIOL 441**		Field Ecology	4			
Please complete 12 additional credits of the following. No more than 6 total							
hours can come from: BIOL 399, BIOL 491, BIOL 492:							
☐ BIOL 305 ** Intro to Conservation Biology							
	BIOL 306		Introduction 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 351** †		Microbiology	4			
	BIOL 405**		Molecular Biology	3			
	BIOL 405L**		Molecular and Cell Biology Techniques	1			
	BIOL 408**		Bioremediation	3			
	BIOL 416**		Bioinformatics	3			
	BIOL 419**		Tropical Ecology	3			
	BIOL 433** †		Ornithology	4			
	BIOL 437**		Entomology	4			
	BIOL 450**		Special Topics	3			
	BIOL 462**		Microbial Ecology	3			
	BIOL 472** †		Limnology	4			
	BIOL 493**		Undergraduate Seminar	1			
	BIOL 494**		Biology Colloquium	1			
	ENV 480**		Geographic Information System for				
			Environmental Management	4			
	NRES 360**		Environmental Instrumentation	4			
	NRES 467**		Regional and Global Issues in				
			Environmental Sciences	3			



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2021-2022 CATALOG DEGREE OVERVIEW & NOTES PAGE

NEVADA STATE COLLEGE

SCHOOL OF LIBERAL ARTS & SCIENCES

BIOLOGY, B.S.

CREDIT REQUIREMENTS					
Summary of credit requirements for the Bachelor of Scie	nce in Biology.				
□ College Core Curriculum□ Major Requirements	33-44 59				
UPPER DIVISION ELECTIVE REQUIREMENTS □ UPPER DIVISION CREDITS Must be 300-400 level	9			CREDITS COMPLETED	CREDITS REMAINING
ADDITIONAL GRADUATION REQUIREMENTS 120 CREDITS Total minimum earned credits (r				CREDITS COMPLETED	CREDITS REMAINING
□ RESIDENCY RULE Upper division credits from Neva		m)	30		
□ 4-YEAR RULE Credits from a 4-year institution	(minimum)		60		
ADVISOR NOTES	<u>S</u>	TUDENT	NOTES		
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