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

1

4

3

4

4

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** † BIOL 191 † BIOL 209**	 	Intro to Cell and Molecular Bio Intro to Organismal Biology Cell Processes	4	4 4 3	
	BIOL 220** OR		Intro to Ecological Principles	3	3	
	ENV 220**		Intro to Ecological Principles	3	3	
	BIOL 300** † BIOL 415**		Principles of Genetics Evolution		4	
RELATED MATH/SCIENCE REQUIREMENTS 22 CREDITS						
	CHEM 241** †		Organic Chemistry I	2	4	
	CHEM 242** †		Organic Chemistry II	4	4	
	• • • • • • • • • • • • • • • • • • • •			3	3	
	PHYS 151** †		General Physics I	4	4	
	PHYS 152** †		General Physics II	4	4	
	STAT 391**		Applied Statistics for Biologica	al 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 pre- requisites). At least one elective must be a 4-credit course that has a lab/field						

| Intro to Conservation Biology

| Introduction to Scientific Ethics

BIOL 405L** BIOL 408** BIOL 409** BIOL 414**	Bioremediation Virology	1 3 3 3
BIOL 416**		3
BIOL 419**	T	3
BIOL 428**	Medical Gross Anatomy	4
BIOL 433** †		4
BIOL 437**		4
BIOL 440** †		3
BIOL 441**		4
BIOL 447**	Comparative Animal Physiology	4
BIOL 448**		1
BIOL 450**		3
BIOL 450L**		1
BIOL 453**		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**	3,	3
BIOL 493**	9	1
BIOL 494**	37	1
BIOL 497**		3
CHEM 456**	,	3
CHEM 472**	,	2
CHEM 475**	Biochemistry II	3

TOTAL CREDITS FOR DEGREE (120 CREDITS)

✓ Check box when requirement is satisfied

☐ BIOL 405**

experience component

☐ **BIOL 319**** † | Vertebrate Biology

☐ **BIOL 340**** † | Urban Agriculture

☐ **BIOL 350**** | Clinical Epidemiology

☐ **BIOL 321**** | Marine Biology ☐ **BIOL 330**** † | Plant Biology

☐ **BIOL 351**** † | Microbiology

☐ BIOL 305**

□ BIOL 306

| Molecular Biology

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 PROGRAM INFORMATION INCLUDING **COURSE DESCRIPTIONS AND** PREREQUISITES.

^{**}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.

NEVADA STATE COLLEGE

SCHOOL OF LIBERAL ARTS & SCIENCES

BIOLOGY (Cell and Molecular Concentration), B.S.

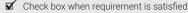
OPTIONAL BIOLOGY CONCENTRATIONS

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 CONCENTRATION IN CELL AND MOLECULAR **BIOLOGY**

DLUGI						
BIOL 405**		Molecular Biology	3			
BIOL 453**		Immunology	3			
Please complete 10 additional credits of the following:						
BIOL 306**		Intro to Scientific Ethics	1			
BIOL 330** †		Plant Biology	3			
BIOL 351** †		Microbiology	4			
BIOL 405L**		Molecular and Cell Biology Techniques	1			
BIOL 409**		Virology	3			
BIOL 414**		Endocrinology	3			
BIOL 416**		Bioinformatics	3			
BIOL 437**		Entomology	4			
BIOL 440** †		Mammalian Physiology	3			
BIOL 448**		Mammalian Physiology - Laboratory	1			
BIOL 457** †		Molecular and Cellular Immunology	4			
BIOL 460**		Microbial Physiology	3			
BIOL 470**		Topics in Applied Microbiology	3			
BIOL 473**		Advanced Topics in Cell and Molecular				
		Biology	3			
BIOL 475**		Neurobiology	3			
BIOL 493**		Undergraduate Seminar	1			
BIOL 494**		Biology Colloquium	1			
BIOL 497**		Senior Thesis	3			
CHEM 306**		Intro to Scientific Ethics	1			
CHEM 380**		Medicinal Chemistry	3			
CHEM 456**		Medical Biochemistry	3			
CHEM 472**		Biochemistry Laboratory	2			
CHEM 475**		Biochemistry II	3			
	BIOL 405** BIOL 453** ase complete 10 add BIOL 306** BIOL 330** † BIOL 351** † BIOL 405L** BIOL 409** BIOL 414** BIOL 416** BIOL 440** † BIOL 440** † BIOL 457** † BIOL 460** BIOL 475** BIOL 473** BIOL 473** BIOL 475** CHEM 306** CHEM 380** CHEM 456** CHEM 472**	BIOL 405** BIOL 453** ase complete 10 addin BIOL 330** † BIOL 351** † BIOL 405L** BIOL 409** BIOL 414** BIOL 416** BIOL 437** BIOL 440** † BIOL 440** † BIOL 457** † BIOL 475** BIOL 473** BIOL 475** BIOL 494** BIOL 494** BIOL 497** CHEM 380** CHEM 456** CHEM 472**	BIOL 405** Molecular Biology BIOL 453** Immunology ase complete 10 additional credits of the following: BIOL 306** Intro to Scientific Ethics BIOL 330** † Plant Biology BIOL 351** † Microbiology BIOL 405L** Molecular and Cell Biology Techniques BIOL 409** Virology BIOL 414** Endocrinology BIOL 416** Bioinformatics BIOL 437** Entomology BIOL 440** † Mammalian Physiology BIOL 448** Mammalian Physiology - Laboratory BIOL 457** † Molecular and Cellular Immunology BIOL 470** Topics in Applied Microbiology BIOL 473** Advanced Topics in Cell and Molecular Biology BIOL 475** Neurobiology BIOL 475** Neurobiology BIOL 475** Senior Thesis CHEM 306** Intro to Scientific Ethics CHEM 380** Medicinal Chemistry CHEM 456** Medical Biochemistry CHEM 472** Biochemistry Laboratory			



^{**}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 PROGRAM INFORMATION INCLUDING COURSE DESCRIPTIONS AND PREREQUISITES.

[†] Indicates a lab is required.

NAME & NSHE ID #:	

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		
	_				
	_				
	_				
	_				
	_				
	_				
	_				
	_				
	_				
	_				
	_				
	_				