NAME & NSHE ID #:	

2022-2023 CATALOG **COLLEGE CORE CURRICULUM** CHECKLIST

NEVADA STATE COLLEGE SCHOOL OF LIBERAL ARTS & SCIENCES

CHEMISTRY (Biochemistry Concentration) 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

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.

4 CREDITS □ MATHEMATICS

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 Chemistry Biochemistry Concentration major, please refer to accompanying "Major Degree Checklist"

MAJOR REQUIREMENTS (67-76 CREDITS)

ADDITIONAL GENERAL ELECTIVES (1-15 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**

NEVADA STATE COLLEGE

SCHOOL OF LIBERAL ARTS & SCIENCES

CHEMISTRY (Biochemistry Concentration) B.S.

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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 (67-76 CREDITS)

CHEMISTRY CORE COURSES	23 CREDITS
□ CHEM 241** † Organic Chemistry □ CHEM 242** † Organic Chemistry □ CHEM 330** Analytial Chemistry □ CHEM 421** † Physical Chemistry □ CHEM 431** Advanced Inorganic Chemistry □ CHEM 474** Biochemisty	4 4 3 5 7 3 3
REQUIRED RELATED COURSES	15 CREDITS
 MATH 182** Calculus II PHYS 180** + Physics for Scientists and Eng PHYS 181** + Physics for Scientists and Eng STAT 391** Applied Statistics for Biological 	ineers II 4
BIOCHEMISTRY CONCENTRATION 22	-23 CREDITS
□ BIOL 190** + Intro to Cell and Molecular Biology □ BIOL 191** + Intro to Organismal Biology □ BIOL 209** Cell Processes □ BIOL 300** + Principles of Genetics □ BIOL 405** Molecular Biology □ CHEM 475** Biochemistry II	gy 4 4 3 4 3 3
Select one of the following: BIOL 405L** Molecular and Cell Biology Te	chniques 1

UPPER DIVISION SCIENCE ELECTIVES

7-15 CREDITS

Select fro	om the i	tollowina	courses:

☐ CHEM/BIOL	306	** Intro to Scientific Ethics	-
☐ CHEM 377**	-	Natural Product Chemistry	3
☐ CHEM 380**		Medicinal Chemistry	3
☐ CHEM 392**		Special Topics in Chemistry	1-3
☐ CHEM 422**	-	Physical Chemistry II	3
☐ CHEM 435**	-	Chemical Synthesis	3
☐ CHEM 442**	-	Advanced Organic Chemistry	3
☐ CHEM 445**	-	Organic Spectroscopy and	
		Structure Determination	4
☐ CHEM 455**	-	Instrumental Analysis	3
☐ CHEM 455L	**	Instrumental Analysis Laboratory	2
☐ CHEM 456**	-	Medical Biochemistry	3
☐ CHEM 475**	-	Biochemistry II	3
☐ CHEM 491**	-	Senior Seminar in Chemistry	
☐ CHEM 492**	-	Advanced Topics in Chemistry	2-6
☐ CHEM 495**	-	Senior Thesis in Chemistry I	3
☐ CHEM 496**	-	Senior Thesis in Chemistry II	3
☐ CHEM 497**	-	Independent Study	1-3
☐ CHEM 498**		Undergraduate Research	1-3
☐ CHEM 499**	-	Internship	1-6

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.

CHEM 472** Biochemistry Laboratory

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

NAME & NSHE ID #:		
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2022-2023 CATALOG **DEGREE OVERVIEW & NOTES PAGE**

NEVADA STATE COLLEGE

CHEMISTRY (Bioche			can	tration) R	e
CREDIT REQUIREMENTS Summary of credit requirements for the Bachelor of Science	ĺ			ĺ	. J.
□ College Core Curriculum□ Major Requirements	33-44 67-76				
UPPER DIVISION ELECTIVE REQUIREMENTS □ UPPER DIVISION CREDITS Must be 300-400 level	1-15			CREDITS COMPLETED	CREDITS REMAINING
ADDITIONAL GRADUATION REQUIREMENTS 120 CREDITS Total minimum earned credits (must be 100 leve	el or above)	120	CREDITS COMPLETED	CREDITS REMAINING
□ RESIDENCY RULE Upper division credits from New □ 4-YEAR RULE Credits from a 4-year institution		num)	30 60		
ADVISOR NOTES		STUDENT	T NOTES		