NEVADA STATE COLLEGE SCHOOL OF LIBERAL ARTS & SCIENCES **CHEMISTRY, 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 Chemistry major, please refer to accompanying "Major Degree Checklist"

MAJOR REQUIREMENTS (60-68 CREDITS)

ADDITIONAL GENERAL ELECTIVES (9-22 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

2022-2023 CATALOG COLLEGE CORE CURRICULUM CHECKLIST

3-6 CREDITS

NEVADA STATE COLLEGE SCHOOL OF LIBERAL ARTS & SCIENCES CHEMISTRY B.S.

23 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 (60-68 CREDITS)

CHEMISTRY CORE COURSES

□ CHEM 241** +	Organic Chemistry I	4	
□ CHEM 242** †	Organic Chemistry II	4	
□ CHEM 330**	Analytial Chemistry	3	
□ CHEM 421** †	Physical Chemistry I	5	
□ CHEM 431**	Advanced Inorganic Chemistry	3	
□ CHEM 474**	Biochemisty I	3	
REQUIRED RELATED COURSES 15 CREDITS			
	Calculus II	1	

□ MATH 182**		Calculus II	4
□ PHYS 180**	-	Physics for Scientists and Engineers I	4
□ PHYS 181**		Physics for Scientists and Engineers II	4
□ STAT 391**		Applied Statistics for Biological Sciences	3

UPPER DIVISION CHEMISTRY ELECTIVES 22-30 CREDITS

Note: One course must include a lab component.

ADDITIONAL FOUNDATIONAL CHEMISTRY

Select two of the following courses (6 credits):

CHEM 422**	Physical Chemistry II	3
CHEM 455**	Instrumental Analysis	3
CHEM 475**	Biochemistry II	3

SPECIALIZED TOPICS IN CHEMISTRY

Select four or five of the following courses (12-15 credits):

□ CHEM 377**		Natural Product Chemistry	3
□ CHEM 380**		Medicinal Chemistry	3
□ CHEM 392**		Special Topics in Chemistry	1-3
□ CHEM 435**		Chemical Synthesis	3
□ CHEM 442**		Advanced Organic Chemistry	3
□ CHEM 445**		Organic Spectroscopy and	
		Structure Determination	4
□ CHEM 447**		Advanced Synthesis Laboratory	2
□ CHEM 455L**		Instrumental Analysis Laboratory	2
□ CHEM 456**	I	Medical Biochemistry	3

2022-2023 CATALOG MAJOR DEGREE CHECKLIST (PAGE 1)

One of the following courses can be selected to fulfill this requirement.

BIOL 405L** Molecular and Cell Biology Techniques 1

CHEM 472**	Biochemistry Laboratory	2
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EXPERIENTIAL CHEMISTRY

Select from the following (4-9 credits):

□ CHEM/BIOL 306** Introductions to Scientific Ethics				
	CHEM 491**		Senior Seminar in Chemistry	1
	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.

+ 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.

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

CREDIT REQUIREMENTS

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

College Core Curriculum	33-44			
Major Requirements	60-68			
UPPER DIVISION ELECTIVE REQUIREMENTS UPPER DIVISION CREDITS Must be 300-400 level	9-22		CREDITS COMPLETED	CREDITS REMAINING
ADDITIONAL GRADUATION REQUIREMENTS			CREDITS COMPLETED	CREDITS REMAINING
□ 120 CREDITS Total minimum earned credits	(must be 100 level or above)	120		
□ RESIDENCY RULE Upper division credits from Net	vada State (minimum)	30		
□ 4-YEAR RULE Credits from a 4-year institution	n (minimum)	60		

ADVISOR NOTES

STUDENT NOTES

2022-2023 CATALOG DEGREE OVERVIEW & NOTES PAGE