



# Academic Map: BS Chemistry with Concentration in Biochemistry

**Associate of Science (A.S) | 60\* Total Credits | CSN Degree Code: PHYS-AS | Catalog Year: 2024-2025 | For Transfer to NS**

Biological and Physical Sciences Area of Study

School of Science and Mathematics

Department of Physical Sciences

Jobs and Employment Information: <https://www.csn.edu/sciencearea>

**DESCRIPTION:** The Associate of Science Degree in Physical Science is a general transfer program for students who are planning to transfer to a baccalaureate or pre-professional institution. A minimum cumulative GPA of 2.0 is required for transfer to NS.

## **TERM 1 – TOTAL CREDIT HOURS: 14**

	<b><u>Credits</u></b>	<b><u>Pre-Requisite/Co-Requisite</u></b>	<b><u>Area</u></b>	<b><u>Milestones and Notes</u></b>
MATH 181 Calculus I	4	MATH 126 and MATH 127 or MATH 128 all with a grade of C or better; or a satisfactory ACT/SAT/Placement Test score	GE Math	
ENG 100 or ENG 101 or ENG 113	3	ACT/SAT/Placement Score	GE ENG Comp	
CHEM 121 General Chemistry I	4	CHEM 103 or CHEM 110 or CHEM Placement	Special Prog	
Social Science Elect-See an advisor/counselor	3	Depends on course chosen	GE Social Science	

## **TERM 2 – TOTAL CREDIT HOURS: 15**

	<b><u>Credits</u></b>	<b><u>Pre-Requisite/Co-Requisite</u></b>	<b><u>Area</u></b>	<b><u>Milestones and Notes</u></b>
ENG 102 or ENG 114	3	ENG 100/101/113 with a C- or up; or approval	GE ENG Comp	
MATH 182 Calculus II	4	MATH 181 with a grade of C or better; or a satisfactory ACT/SAT/Placement Test score	Special Prog	
CHEM 122 General Chemistry II	4	CHEM 121 with a grade of “C” or higher	Special Prog	
PSC 101 Intro to American Politics	4	None	GE US/NV Const	

## **TERM 3 – TOTAL CREDIT HOURS: 16**

	<b><u>Credits</u></b>	<b><u>Pre-Requisite/Co-Requisite</u></b>	<b><u>Area</u></b>	<b><u>Milestones and Notes</u></b>
Humanities Elect-See an advisor/counselor	4	Depends on course chosen	GE Humanities	
BIOL 190 Intro to Cell & Mol	4	ENG 100 or ENG 101 or ENG 110 or ENG 113; and MATH 124 or MATH 124E or MATH 126 or MATH 126E or above; all with a grade of C- or better	Special Prog	NS Requirement
CHEM 241 Organic Chemistry I	4	CHEM 122	Special Prog	
PHYS 180 Phys for Scientists & Engineers I	4	None	GE Nat Science	

## **TERM 4 – TOTAL CREDIT HOURS: 15**

	<b><u>Credits</u></b>	<b><u>Pre-Requisite/Co-Requisite</u></b>	<b><u>Area</u></b>	<b><u>Milestones and Notes</u></b>
Fine Arts Elect-See an advisor/counselor	3	Depends on course chosen	GE Fine Arts	Apply for graduation
Special Program Elective	1	Depends on course chosen	Special Prog Elec	BIOL 191 recommended by NS
CHEM 242 Organic Chemistry II	4	CHEM 241 with a C or better	Special Prog Elec	
PHYS 181 Phys for Scientists & Engineers II	4	None	Special Prog Elec	
COM 101 Oral Communication	3	None	GE Humanities	

\*Students transferring to UNR will complete a total of 61 credits for this degree.

\*Students who place in a lower MATH and/or CHEM course will complete more than 61 credits for this degree.



**B.S. in Chemistry | 60 Total Credits | Catalog Year: 2024-2025 | Transfer from CSN with A.S. in Physical Sciences**

DESCRIPTION: The Chemistry degree offers exciting hands-on laboratory experiences that emphasize real world applications, such as medicinal chemistry. With foundations in organic, physical, inorganic and biochemistry, this degree prepares students for direct employment in the workforce and for graduate or professional programs. Major coursework requires a "C-" or higher.

<b><u>TERM 1 – TOTAL CREDIT HOURS: 14-15</u></b>	<b><u>Credits</u></b>	<b><u>Pre-Requisite/Co-Requisite</u></b>	<b><u>Area</u></b>	<b><u>Milestones and Notes</u></b>
CHEM 330	4	CHEM 122A, CHEM 122L, MATH 181	Major	
CHEM 421	3	CHEM 122, MATH 182, PHYS 151	Major	
BIOL 209	4	BIOL 190A & L, CHEM 121A & L, CHEM 122A & L, and MATH 126 or higher	Major	
UPPER DIVISION SCIENCE ELECTIVE	3-4	Depends on course chosen	Major	
<b><u>TERM 2 – TOTAL CREDIT HOURS: 13-14</u></b>	<b><u>Credits</u></b>	<b><u>Pre-Requisite/Co-Requisite</u></b>	<b><u>Area</u></b>	<b><u>Milestones and Notes</u></b>
STAT 391	3	MATH 120 or MATH 126	Major	
CHEM 423	3	CHEM 421	Major	
BIOL 300A and BIOL 300L	4	BIOL 190A/L, BIOL 191A/L, BIOL 209, CHEM 121A/L, CHEM 122A/L, and MATH 126 or higher	Major	
UPPER DIVISION SCIENCE ELECTIVE	3-4	Depends on course chosen	Major	
<b><u>TERM 3 – TOTAL CREDIT HOURS: 16-17</u></b>	<b><u>Credits</u></b>	<b><u>Pre-Requisite/Co-Requisite</u></b>	<b><u>Area</u></b>	<b><u>Milestones and Notes</u></b>
CHEM 431	3	CHEM 242	Major	Apply for graduation
CHEM 474	4	BIOL 190,191,209 CHEM 121,122 & MATH 126	Major	
UPPER DIVISION SCIENCE ELECTIVE	3-4	Depends on course chosen	Major	
GENERAL ELECTIVE	3	Depends on course chosen	Elective	
GENERAL ELECTIVE	3	Depends on course chosen	Elective	
<b><u>TERM 5 – TOTAL CREDIT HOURS: 14-15</u></b>	<b><u>Credits</u></b>	<b><u>Pre-Requisite/Co-Requisite</u></b>	<b><u>Area</u></b>	<b><u>Milestones and Notes</u></b>
BIOL 405	3	BIOL 190, 209, 300, CHEM 121, 122, 241, 242, 474 & MATH 126	Major	
CHEM 472 or BIOL 405L	1-2	Depends on course chosen	Major	
CHEM 475	4	CHEM 474 with a grade of C- or better	Major	
GENERAL ELECTIVE	3	Depends on course chosen	Elective	
GENERAL ELECTIVE	3	Depends on course chosen	Elective	

\*Consult advisor for course sequencing. Some courses may only be offered in specific semesters.

\*Upper Division is 300+ coursework.

\*Link to NS Catalog for Elective Course options, program information and course pre-requisites: [Nevada State College](#)