



Academic Map: Chemical Engineering (BS)

Associate of Science (A.S.) | 60 Total Credits¹ | CSN Degree Code: PHYS-AS | Catalog Year: 2021-2022 | For Transfer to UNR

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 secondary objective may be employment upon completion of the AS degree.

TERM 1 – TOTAL CREDIT HOURS: 17

<u>Credits</u>	<u>Pre-Requisite/Co-Requisite</u>	<u>Area</u>	<u>Min Grade</u>	<u>Milestones and Notes</u>
MATH 181 Calculus I ²	4 C or up in MATH 126/127/128; or ACT/SAT/Place Score	GE Math	C	UNR Requirement
ENG 100 or ENG 101	3 ENG Place Score; or C- and up in ENG 98 or ESL 139	GE ENG Comp	C-	
CHEM 121 General Chemistry I ²	4 CHEM 103 or 110 or CHEM Placement Score	Special Prog	C	UNR Requirement
ECON 102 Principles of Microeconomics	3 C or up in MATH 124 or above	GE Social Science	C	UNR Requirement
COM 101 Oral Communication	3 None	GE Humanities	C	Mandatory Advising Required

TERM 2 – TOTAL CREDIT HOURS: 15

<u>Credits</u>	<u>Pre-Requisite/Co-Requisite</u>	<u>Area</u>	<u>Min Grade</u>	<u>Milestones and Notes</u>
ENG 102 Composition II	3 ENG 100/101/113 with a C- or up	GE ENG Comp	C	
MATH 182 Calculus II	4 C or up in MATH 181; or ACT/SAT/Place Score	Special Prog	C	UNR Requirement
PHYS 180 and 180L	4 Co-req: PHYS 180L Pre-req: C or up in MATH 181	GE Natural Sci	C	UNR Requirement
CHEM 122 General Chemistry II	4 CHEM 121 and MATH 127 or above	Special Prog	C	Mandatory Advising Required

TERM 3 – TOTAL CREDIT HOURS: 15

<u>Credits</u>	<u>Pre-Requisite/Co-Requisite</u>	<u>Area</u>	<u>Min Grade</u>	<u>Milestones and Notes</u>
MATH 283 Calculus III	4 C or up in MATH 182; or ACT/SAT/Place Score	Special Prog	C	UNR Requirement
PHYS 181 and 181L	4 Co-req: PHYS 180L and PHYS180180/L	Special Prog	C	UNR Requirement
CEE 241 Statistics	3 MATH 182 and PHYS 180	Special Prog	C	UNR Requirement
PSC 101 Intro to American Politics	4 None	GE US/NV Const	C	Mandatory Advising Required

TERM 4 – TOTAL CREDIT HOURS: 16

<u>Credits</u>	<u>Pre-Requisite/Co-Requisite</u>	<u>Area</u>	<u>Min Grade</u>	<u>Milestones and Notes</u>
MATH 285 Differential Equations	4 C or up in MATH 182	Special Prog	C	UNR Requirement
ENG 231 or ENG 232	3 ENG 100/101/113 with a C- or up; or approval	GE Humanities	C	
PHIL 242 Ethics for Engineers and Scientists	3 None	Special Prog	C	UNR Requirement
Fine Arts Elective – See an advisor/counselor	3 Depends on course chosen	GE Fine Arts	C	
ECON 103 Principles of Macroeconomics	3 MATH 124	Special Prog	C	Apply for Graduation

¹Student will complete 63 credits based on courses needed for transfer. A student receiving financial aid may be require pay for the additional credits. See Financial Aid for details

²Students who place in a lower MATH and/or CHEM course will complete more than 61 credits for this degree.