

## ASSOCIATE OF SCIENCE DEGREE (AS)

The Associate of Science Degree is a general transfer program for students who are planning to transfer to UNLV, UNR, NSC, GBC or another baccalaureate-level institution. A secondary objective may be employment upon completion of the AS.

**STUDENT LEARNING OUTCOMES - Graduates of this program will have the opportunity to:**

- Demonstrate a knowledge of Inorganic Chemistry: Stoichiometry, Nomenclature, Acids and Bases, Gas Laws, Equilibrium, Kinetics, Thermochemistry, Electrical Chemistry and Nuclear Chemistry.
- Demonstrate a knowledge of Organic Chemistry: Stoichiometry, Nomenclature, Acids and Bases, Gas Laws, Equilibrium, Kinetics, Organic Synthesis and Mechanisms.
- Demonstrate a knowledge of Scientific Methods and the relationship of theory, experiment, data analysis and general knowledge.
- Demonstrate the ability to articulate chemical knowledge in verbal, written, and computational form.

Courses with "H" suffixes are designated Honors level courses and can be used to fulfill equivalent general education requirements.

**GENERAL EDUCATION REQUIREMENTS (35 Credits):**

	CR	SEMESTER
<b>ENGLISH:</b> ENG 100 or 101 or 113 and 102 or 114	6-8	_____
<b>LITERATURE:</b> ENG 223 or above	3	_____
<b>FINE ARTS:</b> ART, DAN 101, Music, THTR	3	_____
<b>HUMANITIES:</b> COM 101 and ENG 223 or above, HIST International Languages 111 or above, PHIL	6	_____
<b>MATHEMATICS:</b> MATH 181	4	_____
<b>SOCIAL SCIENCES:</b> (Nine credits must be from three different disciplines): ANTH, CRJ 104, ECON, PSC, PSY, SOC, WMST 113	9	_____
<b>U.S. AND NEVADA CONSTITUTIONS:</b> PSC 101 or HIST 101 and HIST 102 or HIST 101 and HIST 217	4-6	_____

**SPECIAL PROGRAM REQUIREMENTS (28 Credits):**

	CR	SEMESTER
<b>CHEM 121</b> General Chemistry I	4	_____
<b>CHEM 122</b> General Chemistry II	4	_____
<b>CHEM 241</b> Organic Chemistry I	4	_____
<b>CHEM 242</b> Organic Chemistry II	4	_____
<b>MATH 182</b> Calculus II	4	_____

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	CR	SEMESTER
<b>FOR BIOCHEMISTRY:</b>		
<b>BIOL 196</b> Principles of Modern Biology I	4	_____
<b>BIOL 197</b> Principles of Modern Biology II	4	_____
<b>FOR CHEMISTRY BA:</b>		
<b>PHYS 151</b> General Physics I	4	_____
<b>PHYS 152</b> General Physics II	4	_____
<b>FOR CHEMISTRY BS:</b>		
<b>PHYS 180</b> Physics for Scientists and Engineers I	3	_____
<b>PHYS 180L</b> Physics for Scientists and Engineers Lab I	1	_____
<b>PHYS 181</b> Physics for Scientists and Engineers II	3	_____
<b>PHYS 181L</b> Physics for Scientists and Engineers Lab II	1	_____
<b>PHYS 182</b> Physics for Scientists and Engineers III	3	_____
<b>PHYS 182L</b> Physics for Scientists and Engineers III	1	_____

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.

**Guided Pathway – 5 Semesters**  
**Associate of Science (AS) - Chemistry**  
**Total Credits 63**

<b>First Semester</b>	<b>Requirement</b>	<b>Credit Hours</b>	<b>Term</b>
ENG 100 or 101	English	3	
Elective	Fine Arts	3	
COM 101	Humanities	3	
Elective	Social Sciences	3	
	<b>TOTAL</b>	12	
<b>Second Semester</b>	<b>Requirement</b>	<b>Credit Hours</b>	<b>Term</b>
MATH 181	Mathematics	4	
Elective	Social Sciences	3	
CHEM 121	General Chemistry I	4	
PSC 101	U.S./NV Constitutions	4	
	<b>TOTAL</b>	15	
<b>Third Semester</b>	<b>Requirement</b>	<b>Credit Hours</b>	<b>Term</b>
ENG 102	English	3	
CHEM 122	General Chemistry II	4	
BIOL 196 or PHYS 151 or PHYS 180 (with lab)	Principles of Modern Biology I General Physics I Physics for Scientists/Engineers I	4	
MATH 182	Calculus II	4	
	<b>TOTAL</b>	15	
<b>Fourth Semester</b>	<b>Requirement</b>	<b>Credit Hours</b>	<b>Term</b>
ENG 223	Literature	3	
CHEM 241	Organic Chemistry I	4	
BIOL 197 or PHYS 152 or PHYS 181 (with lab)	Principles of Modern Biology II General Physics II Physics for Scientists/Engineers II	4	
	<b>TOTAL</b>	11	
<b>Fifth Semester</b>	<b>Requirement</b>	<b>Credit Hours</b>	<b>Term</b>
CHEM 242 or	Organic Chemistry II	4	
PHYS 182 (with lab) For Chemistry Major	Physics for Scientists/Engineers II		
Elective	Humanities	3	
Elective	Social Sciences	3	
	<b>TOTAL</b>	10	
	<b>Degree TOTAL</b>	63	