ENVIRONMENTAL SCIENCE, AS

Program Code: Environmental Science-AS

Program Description

The Associate of Science, Environmental Science program provides an opportunity to systematically study the natural world and human-environment interaction. It seeks to identify, analyze, and respond to core environmental problems of the modern world. The program is specifically designed to transfer seamlessly into the curriculum of Bachelor of Science in Environmental Science at the University of Nevada, Reno. It will prepare students for transfer into similar programs at other four-year institutions.

Environmental Science Career Map (https://sites.tmcc.edu/flipbook/career-maps/)

Recommended Course Schedule

1st semester		Units
MATH 127 or MATH 181	Pre-Calculus II or Calculus I	3
Fine Arts [6]		3
ENG 101 or ENG 113	Composition I or Composition I for International and Multilingual Students	3
NRES 100	Prin of Natural Resources & Environmental Sciences	3
BIOL 190A & BIOL 190L	Introduction to Cell and Molecular Biology and Introduction to Cell and Molecular Biology Laboratory	4
	Semester Total	**16**
2nd semester		
CHEM 121	General Chemistry I	4
ENG 102 or ENG 114	Composition II or Composition II For International and Multilingual Students	3
STAT 152	Introduction to Statistics	3
GEOL 101	Geology: Exploring Planet Earth	4
	Semester Total	**14**
3rd semester		
CHEM 122	General Chemistry II	4
NRES 210	Environmental Pollution	3
GEOG 210	Introduction to Geotechnology	3
PHIL 210	World Religions	3
Elective [7]		3-4
	Semester Total	**16**
4th semester		
PSC 101	Introduction to American Politics	3
BIOL 191A & BIOL 191L	Introduction to Organismal Biology and Intro to Organismal Biology Lab	4
NRES 217	Natural Resource Ecology	3
Elective [7]		3-4
	Semester Total	**14**
	Total Units	**60**

[6] See approved General Education list for the AA/AS Degree. (https://catalog.tmcc.edu/degrees-certificates/general-education/aa-as/)

[7] See program recommendations or requirements.

Program Requirements

Associate of Science degrees are designed for students who plan to transfer to a four-year college or university.

To earn an AS degree, students must:

1. Maintain a minimum cumulative GPA of 2.0 (see requirements for graduation.)
2. Complete a minimum of 15 units within the college.
3. Satisfy General Education requirements for the AS (https://catalog.tmcc.edu/degrees-certificates/general-education/as/).
4. Have no financial or library obligation to the college.

Code	Title	Units
General Education Requirements		
English		*3-6*
Must include ENG 102 or ENG 114 [1]		
Fine Arts		*3*
Humanities		*3*
Recommended:		
PHIL 210	World Religions [2]	
Mathematics [3]		
Required:		
MATH 127	Pre-Calculus II	3
Science		
Required:		
CHEM 121	General Chemistry I	4
CHEM 122	General Chemistry II	4
Social Science		*3*
Recommended:		
PSC 101	Introduction to American Politics [4]	
Additional College Requirements		
Diversity		*[3]*
Recommended:		
PHIL 210	World Religions	
U.S. and Nevada Constitutions		*[3]*
Recommended:		
PSC 101	Introduction to American Politics	
Degree Requirements		
BIOL 190A & BIOL 190L	Introduction to Cell and Molecular Biology and Introduction to Cell and Molecular Biology Laboratory	4
BIOL 191A & BIOL 191L	Introduction to Organismal Biology and Intro to Organismal Biology Lab	4
GEOG 210	Introduction to Geotechnology	3
GEOL 101	Geology: Exploring Planet Earth	4

NRES 100	Prin of Natural Resources & Environmental Sciences	3
NRES 210	Environmental Pollution	3
NRES 217	Natural Resource Ecology	3
STAT 152	Introduction to Statistics	3
Elective requirements		
Select 7 units from the following: [5]		*7*
CHEM 341	Organic Chemistry for Scientists and Professionals I	
GEOG 121	Climate Change and its Environmental Impacts	
GEOL 102	Earth and Life Through Time [6]	
MATH 126	Pre-Calculus I	
MATH 181	Calculus I	
PHYS 180 & 180L	Physics for Scientists and Engineers I and Physics for Scientists/Engineers Lab I	
or PHYS 151	General Physics I	
Total Units		**60**

1. If you place into ENG 102 or ENG 114, the additional 3 required units will become elective credit.
2. Course may also count toward Diversity requirement. Please consult with Academic Advisement.
3. MATH 181 required if transferring to UNR.
4. Course may also count toward U.S. and Nevada constitution requirement. Please consult with Academic Advisement.
5. For students transferring into a specific program at a university, choose electives appropriate for that program. See Departmental Advisor for details if needed.
6. Course may not count towards Environmental Science degree at UNR.

Program Outcomes

Students completing the degree will:

PSLO1: Identify and describe the essential components of earth's natural environment, and explain key principles of their interactions.

PSLO2: Describe and analyze core environmental problems, their causes, consequences, and practical solutions.

PSLO3: Use quantitative reasoning and critical analysis skills for interpretation of scientific data and problem-solving.

PSLO4: Apply scientific methods to draw and communicate, in oral and written formats, reasonable conclusions about scientific inquiry.

Transfer Agreements

AA/AS degrees are designed for students who plan to transfer to a four-year college or university. General information about general transfer agreements can be found on the Academic Advisement website (https://www.tmcc.edu/advisement/transfer-students/transfer-agreements/). Students who intend to transfer to another college or university should speak with a TMCC Academic Advisor and consult with that institution. The transfer institution determines how TMCC courses will transfer. TMCC has agreements with the following institutions towards a bachelor's degree in the same or similar discipline.

- University of Nevada, Reno (https://www.unr.edu/admissions/transfer/credits/transfer-agreements/)