2021-2022

Environmental Science

Associate of Science (AS) Degree

Program Requirements 20
Additional Requirements 8
General Education/MnTC 32
Total Credits 60

Program Information

The Associate of Science (AS) in Environmental Science degree program prepares individuals for the first two years of a bachelor's degree related to environmental science or environmental studies. For assistance in program planning, or to explore additional transfer options, students should schedule a time to meet with an academic advisor. This degree may transfer in part or in its entirety to baccalaureate institutions. Students should meet with a representative of the transfer institution when planning their program.

Program Goals

By completing this program, students will achieve the following learning goals:

1. Demonstrate comprehension of ecosystem structure and function;
2. Explain the nature and dynamics of biological communities;
3. Examine the importance of sustainability in the management of economically and ecologically important resources;
4. Explore how sustainability can be incorporated into people's worldviews and ethics;
5. Demonstrate application of critical thinking and the process of science in classroom and in field studies; and
6. Evaluate and describe significant environmental dilemmas and the considerations used to find solutions.

Developmental Courses

Some students may need preparatory courses in the areas of English, mathematics, or reading. Courses numbered below 1000 will not apply toward this degree.

Completion Requirements

- A minimum of 60 semester credits in courses numbered 1000 or above.
- A minimum cumulative grade point average (GPA) of 2.0 in courses numbered 1000 or above at ARCC.
- Satisfy residency requirements.
- A minimum grade of C must be earned in all program requirements.
- Completion of specific degree requirements.
- To receive your diploma, you must apply to graduate.
- The requirements of this program are subject to change without notice.

Program Requirements: 20 credits

- ☐ BIOL 1106 Principles of Biology I 4
- ☐ BIOL 1107♦ Principles of Biology II 4
- ☐ BIOL 2206♦ Animal Biology 4

OR

- ☐ BIOL 2207♦ Plant Biology 4
- ☐ CHEM 1061♦ Principles of Chemistry I 4
- ☐ CHEM 1062♦ Principles of Chemistry II 4

Additional Requirements: 8 credits

Select a minimum of 8 credits from the following:

- ☐ BIOL 2201♦ Microbiology 4
- ☐ BIOL 2206♦ Animal Biology 4
- ☐ BIOL 2207♦ Plant Biology 4
- ☐ BIOL 2209♦ General Ecology 4
- ☐ BIOL 2230♦^ Directed Research in Biology 2-4
- ☐ NATS 1005 Meteorology 4

General Education/MnTC Requirements: 32 credits

Complete at least 32 credits in courses from the Minnesota Transfer Curriculum (MnTC), including all courses listed. You must complete at least one course in six of the ten goal areas. One course may satisfy more than one goal area, but the course credits may be counted only once.

- ☐ 1. Communication
  - ☐ ENGL 1120♦ ***OR*** ENGL 1121♦ 4
  - ☐ CMST 1110 ***OR*** CMST 2215 ***OR*** CMST 2220 3
- ☐ 2. Critical Thinking
- ☐ 3. Natural Science
  - ☐ NATS 1003 4
- ☐ 4. Mathematical/Logical Reasoning
  - ☐ MATH 1114♦ ***OR*** MATH 1200♦ 3-4
- ☐ 5. History/Social/Behavioral Sciences
  - ☐ ANTH/GEOG 1110 ***OR*** POLS 1141 3
- ☐ 6. Humanities/Fine Arts
- ☐ 7. Human Diversity
- ☐ 8. Global Perspective
- ☐ 9. Ethical/Civic Responsibility
  - ☐ PHIL 1120 3
- ☐ 10. People and the Environment
  - ☐ BIOL 1103 3
  - ☐ BIOL 1133* 1

**Must be taken either concurrently or after taking BIOL 1103.*

Program Sequence:

The sequence that follows is suggested for full-time students. Part-time students will need more time to complete this program; many courses are offered in the evening.

	Fall Semester		Spring Semester	
1st YEAR	BIOL 1103	3	BIOL 1106	4
	BIOL 1133	1	CHEM 1062	4
	CHEM 1061	4	GenEd or Electives	6-8
	ENGL 1120/1121	4	**TOTAL**	**14-16**
	MATH 1114 or 1200	3-4		
	TOTAL	**15-16**		
2nd YEAR	Fall Semester		Spring Semester	
	BIOL 1107	4	BIOL 2206 or 2207	4
	NATS 1003	4	GenEd or Electives	10-12
	GenEd or Electives	6-8	**TOTAL**	**14-16**
	TOTAL	**14-16**		

♦ ***Course has prerequisite - see course schedule or catalog description.***

^ ***Course requires Instructor permission.***

NOTE: You are encouraged to contact an academic advisor at 763-433-1230 for course planning assistance and information about transfer credit evaluation and transfer options.