

Environmental Science

Associate of Science (AS) Degree

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|------------------------------|----|
| 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 the ecosystem structure and function;
2. Explain the nature of biological communities;
3. Demonstrate application of critical thinking in classroom and in field studies;
4. Describe economically and ecologically important resources;
5. Evaluate and describe significant environmental dilemmas; and
6. Explain community and habitat dynamics.

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.
- Courses within the 28 credit program additional requirements must be completed within three years. Student may petition to extend the window beyond the three years.
- 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

| | | |
|-------------------------------------|---------------------------------|---|
| <input type="checkbox"/> BIOL 1106 | Principles of Biology I..... | 4 |
| <input type="checkbox"/> BIOL 1107♦ | Principles of Biology II | 4 |
| <input type="checkbox"/> BIOL 2206♦ | Animal Biology..... | 4 |
| OR | | |
| <input type="checkbox"/> BIOL 2207♦ | Plant Biology | 4 |
| <input type="checkbox"/> CHEM 1061♦ | Principles of Chemistry I | 4 |
| <input type="checkbox"/> CHEM 1062♦ | Principles of Chemistry II..... | 4 |

Additional Requirements: 8 credits

Select a minimum of 8 credits from the following:

| | | |
|--------------------------------------|------------------------------------|-----|
| <input type="checkbox"/> BIOL 2201♦ | Microbiology | 4 |
| <input type="checkbox"/> BIOL 2206♦ | Animal Biology..... | 4 |
| <input type="checkbox"/> BIOL 2207♦ | Plant Biology | 4 |
| <input type="checkbox"/> BIOL 2209♦ | General Ecology..... | 4 |
| <input type="checkbox"/> BIOL 2230♦^ | Directed Research in Biology | 2-4 |
| <input type="checkbox"/> 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.

| | |
|--|-----|
| <input type="checkbox"/> 1. Communication | |
| <input type="checkbox"/> ENGL 1120♦ OR ENGL 1121♦ | 4 |
| <input type="checkbox"/> CMST 1110 OR CMST 2220..... | 3 |
| <input type="checkbox"/> 2. Critical Thinking | |
| <input type="checkbox"/> 3. Natural Science | |
| <input type="checkbox"/> NATS 1003 | 4 |
| <input type="checkbox"/> 4. Mathematical/Logical Reasoning | |
| <input type="checkbox"/> MATH 1114♦ OR MATH 1200♦ | 3-4 |
| <input type="checkbox"/> 5. History/Social/Behavioral Sciences | |
| <input type="checkbox"/> 6. Humanities/Fine Arts | |
| <input type="checkbox"/> 7. Human Diversity | |
| <input type="checkbox"/> 8. Global Perspective | |
| <input type="checkbox"/> 9. Ethical/Civic Responsibility | |
| <input type="checkbox"/> PHIL 1120 | 3 |
| <input type="checkbox"/> 10. People and the Environment | |
| <input type="checkbox"/> BIOL 1103 | 3 |
| <input type="checkbox"/> BIOL 1133 | 1 |

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 |
|----------------------|-------------------------------|-------------------------------|
| 1 st YEAR | BIOL 1103.....3 | BIOL 1106.....4 |
| | BIOL 1133.....1 | CHEM 1062.....4 |
| | MATH 1114 or 12003-4 | Gen. Ed. or Electives.....6-8 |
| | CHEM 1061.....4 | TOTAL14-16 |
| | ENGL 1120/11214 | |
| | TOTAL15-16 | |
| 2 nd YEAR | Fall Semester | Spring Semester |
| | BIOL 1107.....4 | BIOL 2206 or 2207.....4 |
| | NATS 1003.....4 | Gen. Ed. or Electives...10-12 |
| | Gen. Ed. or Electives.....6-8 | TOTAL14-16 |
| | TOTAL14-16 | |

♦ 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.