

Natural Resources

Associate in Science Degree

Why Natural Resources?

The Pre-Natural Resources Degree is for students who love being outdoors and are interested in protecting the integrity of the world's ecosystems. Effective assessment and management of natural resources is critical to sustaining a habitable planet, so if you envision a world of sustainable forests, wildlife, waters, and other natural resources, this is a great program for you!

Why Bay College?

Our degree is a perfect way to get started on a Natural Resources career. Bay offers foundational courses for a variety of Natural Resources Baccalaureate (4-year) degrees. Bay students often transfer to Michigan Tech, LSSU, or UW Stevens Point to complete their studies.

Beyond Bay College

Students interested in transferring to a four-year institution to obtain a bachelor's degree or higher may find opportunities in the following areas of study:

- Ecology
- Ecosystem Management
- Environmental Biology
- Environmental Conservation
- Environmental Science
- Fisheries and Wildlife
- Forestry
- Natural Resource Management
- Outdoor Recreation
- Wildlife Management

Career Opportunities

A degree in Natural Resources opens the door to many careers in a diverse and growing field. Students can go on to be many things, such as:

- Conservation Officers
- Ecologists
- Land Managers
- Foresters
- Wildlife Educators
- Environmental Analysts
- Park Rangers
- Mammalogist

Contact

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baycollege.edu

Associate in Science

2019-2020 Catalog

Concentration in Pre-Natural Resources

Award Granted Upon Completion: Associate in Science

Credits/Contacts Required: 60/69

Major code: 02/227

CIP Code: 030101

Description

The Pre-Natural Resources Degree is designed for students who wish to transfer to a four-year college or university to obtain an undergraduate degree in Ecology, Ecosystem Management, Environmental Biology, Environmental Conservation, Environmental Science, Fisheries and Wildlife, Forestry, Natural Resources Management, Outdoor Recreation, or Wildlife Management. The most common transfer institutions for students in Pre-Natural Resources include Lake Superior State University (LSSU), Michigan Technological University (MTU), Michigan State University (MSU), and University of Wisconsin Stevens Point (UWSP). In addition to preparation for transfer, this program provides students with a strong general education background. By satisfying the program requirements listed below, a student also satisfies the Michigan Transfer Agreement requirements listed in the catalog. ☺

General Education Requirements – Min 32 credits @

| | | <u>Cr</u> |
|----------|---|-----------|
| ENGL-101 | Rhetoric & Composition | 3 |
| XXXX-xxx | Communication Elective | 3 |
| | ENGL-102 or 145; COMM-103, 104, or 120 | |
| MATH-141 | Analytical Geometry & Calc I | 5 |
| BIOL-107 | Environmental Science | 3 |
| BIOL-108 | Environmental Science Lab | 1 |
| CHEM-110 | General Chemistry I * | 5 |
| ECON-131 | Macroeconomics -OR- | 3 |
| ECON-132 | Microeconomics | |
| XXXX-xxx | Social Behavioral Science | 3 |
| | Elective ** | |
| XXXX-xxx | Humanities Electives ** | 6 |

☺ This degree requires fulfillment of the Michigan Transfer Agreement General Education requirements. All courses used to fulfill the MTA must have a grade of "C" or higher.

Requirements – Min 28 credits @

| | | <u>Cr</u> |
|----------|----------------------------|-----------|
| BIOL-110 | Evolution and Diversity | 4 |
| BIOL-112 | Cells and Molecules | 4 |
| MATH-210 | Introduction to Statistics | 4 |
| XXXX-xxx | Natural Science Elective | 4-5 |
| XXXX-xxx | Approved Electives # | 12 |

Suggested Sequences per Semester

| | | <u>Cr / Ct</u> |
|------------------------|----------------------------------|--------------------|
| First Semester | | |
| BIOL-110 | Evolution & Diversity | 4/6 |
| CHEM-110 | General Chemistry I * | 5/7 |
| ENGL-101 | Rhetoric & Composition | 3/3 |
| MATH-141 | Analytical Geometry & Calculus I | 5/5 |
| | | 17/21 |
| Second Semester | | |
| BIOL-112 | Cells & Molecules | 4/6 |
| ECON-131 | Macroeconomics -OR- | 3/3 |
| ECON-132 | Microeconomics | |
| XXXX-xxx | Communication Elective | 3/3 |
| XXXX-xxx | Approved Elective # | 3-5/3-7 |
| XXXX-xxx | Approved Elective # | 3-5/3-7 |
| | | 16-20/18-26 |
| Third Semester | | |
| BIOL-107 | Environmental Science | 3/3 |
| BIOL-108 | Environmental Science Lab | 1/2 |
| MATH-210 | Introduction to Statistics | 4/4 |
| XXXX-xxx | Humanities ** | 3/3 |
| XXXX-xxx | Approved Elective # | 3-5/3-7 |
| | | 14-16/15-19 |
| Fourth Semester | | |
| XXXX-xxx | Natural Science Elective | 4-5/6-7 |
| XXXX-xxx | Humanities ** | 3/3 |
| XXXX-xxx | Social & Behavioral Science ** | 3/3 |
| XXXX-xxx | Approved Elective # | 3-5/3-7 |
| | | 13-16/15-20 |

NOTE Actual courses and sequence vary with transfer institution and undergraduate degree specialization. It is in the student's best interest to review transfer guides for specific university and program requirements. Students should regularly consult their transfer institution as well as their Bay College advisor prior to scheduling courses.

@ Many courses require specific placement scores or prerequisite courses. Students not meeting the prerequisites for their required courses may need to take more time and more credits to fulfill the degree requirements.

* Students transferring to MTU may select CHEM-108 rather than CHEM-110.

** Students must choose courses in Social & Behavioral Sciences and Humanities, each from two different subject areas to meet MTA. See advisor for details.

Electives selected in consultation with transfer institutions may include BIOL-202, COMM-103, COMM-104, CHEM-112, CHEM-108, MATH-142, and PHED courses.