

## North Central Michigan College Transfer Guide

The Bachelor of Science in Biology (Environmental Biology) is designed to prepare students for entry into the work force or admission into graduate programs in the fields of environmental biology, ecology, and organismal biology. The requirements of the Environmental Biology program are based on the general requirements of the Bachelor of Science in Biology. Specific courses such as Microbial Ecology, Zoology, Plants and Fungi, Plant Physiology, Physical Geology, and Fundamentals of Geographic Information Systems are prescribed to fulfill the requirements of the degree and to best prepare students for future work in the field. The completion of an internship is required.

### General Admission Criteria

To be admitted to this degree program, students must have completed at least 12 credits at the time of application with a minimum 2.0 overall GPA including an English and mathematics course, or they must provide their high school records and ACT /SAT scores for admission review. Official transcripts from all accredited colleges/universities must be submitted with the Ferris application.

### Course Requirements

#### North Central Michigan College

Course	Ferris Equiv.	Ferris Course Title	Cr. Hrs.
ENG 111	ENGL 150	English 1	3
ENG 112	ENGL 250	English 2	3
COM 111	COMM 121	Fundamentals of Public Speaking	3
MATH 150	MATH 220	Analytical Geometry-Calculus 1	4
BIO 151	BIOL 121	General Biology 1	8
<b>and</b>	<b>and</b>	<b>and</b>	
BIO 152**	BIOL 122	General Biology 2	
CEM 121	CHEM 121	General Chemistry 1	5
CEM 122	CHEM 122	General Chemistry 2	5
CEM 231	CHEM 321	Organic Chemistry 1	5
CEM 232	CHEM 322	Organic Chemistry 2	5
PHY 210	PHYS 211	Introductory Physics 1	4
<b>and</b>	<b>and</b>	<b>and</b>	
PHY 211	PHYS 212	Introductory Physics 2	4
<b>OR</b>	<b>OR</b>	<b>OR</b>	
PHY 101	PHYS 130	Concepts in Physics	4
GEOL 101	GEOL 121	Physical Geology	4
NCMC	VARIES	Cultural Enrichment Electives (one must be at FSU 200+ level)	9
NCMC	VARIES	Social Awareness Electives (one must be FSU 200+ level) (must come from 2 different subject areas)	9

*Students transferring to Ferris with the Michigan Transfer Agreement (MTA) and entering a degree program will have met a 30-hour block of lower-level general education courses. However, this does not exempt students from completing program specific prerequisites or higher-level general education course requirements. Students should contact their advisor regarding classes that meet the MTA.*

\*\*Students must take entire sequence at Community College or take the entire sequence at Ferris State University in order to earn course credit.

#### Ferris State University

Course	Ferris Course Title	Cr. Hrs.
ENGL 311	Advanced Technical Writing	3
<b>or</b>	<b>or</b>	
ENGL 321	Advanced Composition	
<b>or</b>	<b>or</b>	
ENGL 323	Proposal Writing	
<b>or</b>	<b>or</b>	
ENGL 325	Advanced Business Writing	
MATH 251	Statistics for the Life Sciences	3
BIOL 218	Microbiology	3
BIOL 330	Zoology	4
BIOL 350	Plants and Fungi	4
BIOL 340	Evolution	3
<b>or</b>	<b>or</b>	
BIOL 345	Environmental Regulations	
BIOL 343	Ornithology	3
<b>or</b>	<b>or</b>	
BIOL 344	Entomology	
<b>or</b>	<b>or</b>	
BIOL 348	Animal Behavior	
BIOL 375	Principles of Genetics	3
BIOL 346	Ecological Assessment	3
<b>or</b>	<b>or</b>	
BIOL 347	Environmental Conservation	
<b>or</b>	<b>or</b>	
BIOL 442	Ecology	
BIOL 453	Plant Physiology	4
BIOL 460	Current Topics in Biology	2
BIOL 492	Internship	1-6
CHEM 324	Fundamentals of Biochemistry	3-4
<b>or</b>	<b>or</b>	
CHEM 364	Biochemistry	
GISC 225	Principles of GIS	3
<b>or</b>	<b>or</b>	
GEOG 311	Social Aspects of GIS	

## Delivery Locations

This degree and the Ferris courses are offered at the following locations:

- Ferris State University, Big Rapids Campus, Big Rapids MI
- Select courses may be delivered online and/or in a mixed delivery format (i.e. a mix of online and face-to-face instruction at the Ferris Main Campus or at an off-campus location)

## Transfer Student Orientation

All new students to Ferris State University are required to complete an orientation. Orientation for incoming freshmen is a one-day session that occurs on campus and includes class registration. Eligible transfer students have the option of completing an online orientation or attending an on campus session.

## Advising Notes

It is recommended that potential students meet with an advisor to review the degree, course schedule, and have any questions answered prior to completing an application. **Students who are completing the MTA may have different general education course requirements for the particular degree selected. Meeting with a Ferris advisor prior to the selection of any electives or general education classes shown above could reduce the chance of completing a course that will not apply toward the selected degree.** Once admitted, students must continue to meet with an advisor as they work towards graduation.

## Online Learning

Orientation is required for students who register for an online *course* or are completing an online *degree*. Students must demonstrate competency in FerrisConnect skills. This may be done by taking a tutorial and quiz, or, for students who have already taken and passed online courses, they can submit a waiver request. Students should check with the department that offers the class to determine its particular needs and/or the Ferris advisor regarding registration for online course work.

## Michigan Transfer Agreement (MTA)

Ferris participates in the Michigan Transfer Agreement (MTA). This agreement will facilitate the transfer of general education requirements from one Michigan institution to another. Students may complete the MTA as part of a degree program or as a stand-alone package. The MTA consists of a minimum of 30 general education credit hours as identified by the college or university.

## Disclaimer

*This is a guide for students who plan to transfer to Ferris State University. This guide is not intended to be a contract with Ferris. The information on this guide is subject to change. Students should contact their community college or Ferris to keep informed of changes. Final responsibility for verifying all transfer information lies with the student. Please refer to the effective and/or revised date on the bottom of the guide.*