

**Ferris Program:** Biology

**Degree Type:** Bachelor of Science

**Ferris College:** College of Arts, Sciences, and Education

**Transfer School:** Montcalm Community College

**Consortium Eligible:** No

**Total Credits Required:** 120-142

**Catalog Year:** 2024-2025

## GENERAL EDUCATION REQUIREMENTS – 30 Credits Required

Students are encouraged to work with an advisor to select appropriate general education courses. Diversity Competency - 2 Courses Required. If not met by courses taken for Culture, Self and Society, or MTA, a student must meet the following: 1 course with the Global Diversity attribute and 1 course with the U.S. Diversity attribute.

Visit the Ferris State [general education page](#) for more information.

### Communication Competency

Ferris Course	Ferris Course Title	Ferris Credit Hours	Transfer Course
COMM 121	Fundamentals of Public Speaking	3	COMM 210
ENGL 150	English 1	3	ENGL 100
ENGL 250	English 2	3	ENGL 101
ENGL 311 or ENGL 321 or ENGL 323	Advanced Technical Writing or Advanced Composition or Proposal Writing	3	No Equivalent

### Quantitative Literacy Competency

Requirements for Quantitative Literary Competency can be met with the following:

- Official Pre-2016 Math SAT Score of 560 or Higher
- Official Post-2016 Math SAT Score of 580 or Higher
- Official Math ACT Score of 24 or Higher

3-4 Credits Required and is met in College Requirements.

The MATH course required depends on the course required in the chosen concentration; see the Concentration section.

### Natural Sciences Competency

Two courses are required with a minimum of 6 credits: must have at least one lab course.

BIOL 121 and CHEM 121 are met in College Requirements.

### Culture Competency

Three courses are required with a minimum of 9 credits: must be from two different disciplines and have at least one at FSU 200 level or higher course.

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Ferris Course	Ferris Course Title	Ferris Credit Hours	Transfer Course
Varies	Culture Electives (Consult Advisor)	9	Varies

## Self and Society Competency

Three courses are required with a minimum of 9 credits: must be from two different disciplines and have at least one at FSU 200 level or higher course, and at least one Self and Society Foundation course. The recommended or required courses to meet this competency depends on the chosen concentration.

Ferris Course	Ferris Course Title	Ferris Credit Hours	Transfer Course
Varies	Self and Society Electives (Consult Advisor)	9	Varies

## COLLEGE REQUIREMENTS – 95-142 Credits Required

### Major Courses

32-40 Credits Required.

Ferris Course	Ferris Course Title	Ferris Credit Hours	Transfer Course
BIOL 121	General Biology 1	4	BIOL 121
BIOL 122	General Biology 2	4	BIOL 122
BIOL 321 and BIOL 322 or BIOL 453	Human Anatomy and Physiology 1 and Human Anatomy and Physiology 2 or Plant Physiology	8 or 4	BIOL 202 and BIOL 203 or No Equivalent
BIOL 218 or BIOL 286 or BIOL 389	Microbial Ecology or General Microbiology or Immunology	3	No Equivalent or BIOL 201 or No Equivalent
BIOL 375	Principles of Genetics	3	No Equivalent
BIOL 346 or BIOL 347 or BIOL 442	Ecological Assessment or Environmental Conservation or Ecology	3	No Equivalent
BIOL 460	Current Topics in Biology	2	No Equivalent
Varies	Biology Electives (300 Level or higher)	9-13	No Equivalent

### Supporting Sciences

24 to 37 Credits Required. This section requires MATH 120 or higher, a minimum of 17 credits in Chemistry (CHEM) courses including Biochemistry, and a minimum of 4 credits in Physics (PHYS) courses.

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Ferris Course	Ferris Course Title	Ferris Credit Hours	Transfer Course
MATH 120	Trigonometry	3	MATH 120
CHEM 121	General Chemistry 1	5	CHEM 220
CHEM 122	General Chemistry 2	5	CHEM 221
CHEM 214 or CHEM 321 and CHEM 322	Fundamentals of Organic Chemistry or Organic Chemistry 1 and Organic Chemistry 2	4 or 10	CHEM 250 or CHEM 251 and CHEM 252
CHEM 324 or CHEM 364	Fundamentals of Biochemistry or Biochemistry	3 or 4	No Equivalent
PHYS 130 or PHYS 211 and PHYS 212 or PHYS 241 and PHYS 242	Concepts in Physics or Introductory Physics 1and Introductory Physics 2 or General Physics 1 and General Physics 2	4 or 8 or 10	No Equivalent or PHYS 230 and PHYS 231 or No Equivalent

## Electives

25 Credits Required. In order to graduate with a bachelor's degree, a student must have a minimum of 120 credits. The electives required for each student may vary depending on courses taken. Based on how a student meets the programmatic requirements, they may need more or less than 25 credits of elective courses to meet the required 120 credit minimum.

MGMT 310 is recommended if the Biology/Pre-Dentistry Concentration (BIPD) or Biology/Pre-Medicine Concentration (BIPM) was chosen.

ACCT 201 or MGMT 310 is recommended if the Biology/Pre-Optometry Concentration (BIPO) was chosen.

Ferris Course	Ferris Course Title	Ferris Credit Hours	Transfer Course
Varies	Electives (Consult Advisor)	25	Varies

## Concentration

Choose one concentration. Available concentrations are as follows:

Biology Concentration (BIBS); Biology/Environmental Concentration (BIEB); Biology/Forensic Concentration (BIFB); Biology/Pre-Physician Assistant Studies Concentration (BIPA); Biology/Pre-Dentistry Concentration (BIPD); Biology/Pre-Medicine Concentration (BIPM); Biology/Pre-Optometry Concentration (BIPO); Biology/Pre-Pharmacy Concentration (BIPP); Biology/Pre-Physical Therapy Concentration (BIPT); Biology/Pre-Veterinary Medicine Concentration (BIPV).

Ferris Course	Ferris Course Title	Ferris Credit Hours	Transfer Course
Varies	Concentration (Consult Advisor)	39-65	Varies

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## PROGRAM CONTACT INFORMATION

College of Arts, Sciences, & Education

Biology Department

(231) 591-2550

[Biology@Ferris.edu](mailto:Biology@Ferris.edu)

Ferris Statewide - Montcalm Community College

(616) 451-4777

[FSUGR@Ferris.edu](mailto:FSUGR@Ferris.edu)

## ADMISSION REQUIREMENTS

### New Student Admission Requirements

- 2.50 High School GPA (on a 4.00 scale)
- ACT Score of 17 or SAT Score of 900 (optional)

### Transfer Student Admission Requirements

- 2.00 Overall GPA (on a 4.00 scale)
- At least 12 credits

## MORE INFORMATION

To fulfill the residency requirement for a bachelor's degree a student must earn a minimum of 30 credits from Ferris State University.

### Steps to Apply

- Complete your [free application](#).
- Submit official transcripts
  - Submit official transcripts from every school attended to [Transfer@Ferris.edu](mailto:Transfer@Ferris.edu)
  - Or mail to:  
Ferris State University Admissions Office  
1201 S. State St., CSS 201  
Big Rapids, MI 49307
- Submit test scores (if required)
  - ACT Scores; go to the [ACT website](#) - Ferris State University School Code: 1994
  - SAT, CLEP and AP Scores; go to the [College Board website](#) - Ferris State University School Code: 1222

### Advising Notes

It is recommended that potential applicants meet with an advisor to review the degree, course schedule, transfer policies and have any questions answered prior to completing an application. Ferris accepts transfer courses in which the student earned a letter grade of "C" or better. Additional policies such as the Ferris Sunset and Residency Requirement should be discussed with a Ferris advisor. 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 general education or elective coursework may reduce the chance of completing a course that will not apply toward the selected degree. Students must work with their Ferris advisor to declare a Minor or Concentration and for the selection of Directed Electives.

Once admitted, students are required to complete an orientation and should continue to meet with an advisor as they work toward graduation.

To schedule an appointment or for additional transfer resources and policies see our [Transfer Resource page](#).

\*Indicates an approved Ferris course substitution

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## Reverse Transfer Agreement

Ferris has reverse transfer agreements with several Michigan Community Colleges. Under such agreement, Ferris will provide your official University transcript to a partner school you have attended, so that they may grant you an associate or bachelor's degree upon completion of sufficient and appropriate credit hours from both institutions. In turn, the degree-granting institution will provide Ferris with an updated transcript reflecting the newly earned credential.

## 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.

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.

## Transfer Equivalencies Tools

The transfer equivalencies link is located in the Transfer Resources section at [transfer.ferris.edu](https://transfer.ferris.edu).

## Disclaimer

Transfer guides are not intended to be a contract with Ferris. The information in this guide is subject to change and is aligned with the catalog year listed above. Students should contact their community college and/or Ferris to keep informed of changes. Students' final responsibility for verifying all transfer information lies with the student. Please refer to the [Ferris catalog](#) for the most current curriculum.

Partners may contact the Office of Transfer and Secondary School Partnerships with questions or updates at [TransferGuidesArticulations@Ferris.edu](mailto:TransferGuidesArticulations@Ferris.edu).