

FERRIS STATE UNIVERSITY

BIOLOGY TRANSFER GUIDE FOR DELTA COLLEGE

Ferris Program: Biology

Degree Type: Bachelor of Science

Ferris College: College of Arts, Sciences, and Education

Transfer School: Delta College (DC)

Consortium Eligible: No

Total Credits Required: 120-121

Catalog Year: 2022-2023

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 [for more information](#).

Communication Competency

| Ferris Course | Ferris Course Title | Ferris Credit Hours | Transfer Course |
|--|--|---------------------|-----------------|
| COMM 121 | Fundamentals of Public Speaking | 3 | COM 112W |
| ENGL 150 | English 1 | 3 | ENG 111 |
| ENGL 250 | English 2 | 3 | ENG 112 |
| 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

The MATH course required depends on the course required in the chosen concentration, and is met in Concentration.

Natural Sciences Competency

Two courses are required with a minimum of 6 credits: must have at least one lab course, and are met in College Requirements.

Culture Competency

Three courses are required with a minimum of 9 credits: must be from two different disciplines, have at least one 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, have at least one 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 – 90-91 Credits Required

Major Courses

16 Credits Required.

| Ferris Course | Ferris Course Title | Ferris Credit Hours | Transfer Course |
|--|--|---------------------|-----------------|
| BIOL 121 | General Biology 1 | 4 | BIO 171 |
| BIOL 122 | General Biology 2 | 4 | BIO 172 |
| BIOL 346 or BIOL 347 or BIOL 442 | Ecological Assessment or Environmental Conservation or Ecology | 3 | No Equivalent |
| BIOL 375 | Principles of Genetics | 3 | No Equivalent |
| BIOL 460 | Current Topics in Biology | 2 | No Equivalent |

Supporting Sciences

10 Credits Required.

| Ferris Course | Ferris Course Title | Ferris Credit Hours | Transfer Course |
|---------------|---------------------|---------------------|-----------------|
| CHEM 121 | General Chemistry 1 | 5 | CHM 111 |
| CHEM 122 | General Chemistry 2 | 5 | CHM 112 |

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.

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

CONCENTRATION – 39-65 Credits Required (Advisor Approval)

Choose One Concentration

Biology/Forensic Concentration (BIFB)

A total of 21 credits are required in Biology (BIOL) courses within this concentration. The total number of Biology electives varies based on the Biology (BIOL) courses taken within this concentration.

| Ferris Course | Ferris Course Title | Ferris Credit Hours | Transfer Course |
|---------------------------------------|---|---------------------|---|
| (Choose 1 of 2) BIOL 251 and BIOL 252 | Human Anatomy and Human Physiology | 6 | BIO 152W and BIO 153W |
| (Choose 1 of 2) BIOL 321 and BIOL 322 | Human Physiology and Anatomy 1 and Human Physiology and Anatomy 2 | 8 | No Equivalent |
| BIOL 207 | Forensic Biology | 4 | No Equivalent |
| BIOL 286 | General Microbiology | 3 | No Equivalent |
| BIOL 407 | Forensic DNA Analysis | 3 | No Equivalent |
| CHEM 207 | Science and Crime | 3 | No Equivalent |
| CHEM 231 or CHEM 307 or CHEM 332 | Quantitative Analysis or Forensic Chemistry or Biochemistry Lab 1 | 4 or 3 or 2 | CHM 230 or No Equivalent or No Equivalent |
| CHEM 321 | Organic Chemistry 1 | 5 | CHM 210 and CHM 210LW |
| CHEM 322 | Organic Chemistry 2 | 5 | CHM 220 and CHM 220LW |
| CHEM 324 or CHEM 364 | Fundamentals of Biochemistry or Biochemistry | 3 or 4 | No Equivalent |
| CRIM 110 | Introduction to Criminal Justice | 3 | CJ 110W |
| CRIM 301 | Criminal Justice Investigation Issues | 3 | CJ 210W |
| MATH 220 | Analytical Geometry and Calculus 1 | 4 | MTH 161 |

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Biology/Pre-Dentistry Concentration (BIPD)

| Ferris Course | Ferris Course Title | Ferris Credit Hours | Transfer Course |
|---------------------------------------|--|----------------------------|------------------------|
| BIOL 286 | General Microbiology | 3 | No Equivalent |
| BIOL 321 | Human Physiology and Anatomy 1 | 4 | No Equivalent |
| BIOL 322 | Human Physiology and Anatomy 2 | 4 | No Equivalent |
| CHEM 321 | Organic Chemistry 1 | 5 | CHM 210 and CHM 210LS |
| CHEM 322 | Organic Chemistry 2 | 5 | CHM 220 and CHM 220LW |
| CHEM 324 or CHEM 364 | Fundamentals of Biochemistry or Biochemistry | 3 or 4 | No Equivalent |
| MATH 120 | Trigonometry | 3 | MTH 121 |
| (Choose 1 of 2) PHYS 211 and PHYS 212 | Introductory Physics 1 and Introductory Physics 2 | 8 | PHY 111 and PHY 112 |
| (Choose 1 of 2) PHYS 241 and PHYS 242 | General Physics 1 and General Physics 2 | 10 | PHY 211 and PHY 212 |
| Varies | Biology Application Area Electives; RMLS 122 Recommended | 5 | Varies |
| Varies | Biology Electives - BIOL 300 Level or Higher; BIOL 370 Recommended | 9 | Varies |

Biology/Pre-Optometry Concentration (BIPO)

| Ferris Course | Ferris Course Title | Ferris Credit Hours | Transfer Course |
|----------------------|----------------------------|----------------------------|------------------------|
| BIOL 251 | Human Anatomy | 3 | BIO 152W |
| BIOL 252 | Human Physiology | 3 | BIO 153W |
| BIOL 286 | General Microbiology | 3 | No Equivalent |
| BIOL 370 | Developmental Biology | 4 | No Equivalent |
| BIOL 373 | Cell Biology | 3 | No Equivalent |
| CHEM 321 | Organic Chemistry 1 | 5 | CHM 210 and CHM 210LS |
| CHEM 322 | Organic Chemistry 2 | 5 | CHM 220 and CHM 220LW |

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| Ferris Course | Ferris Course Title | Ferris Credit Hours | Transfer Course |
|----------------------|--|---------------------|------------------------|
| CHEM 324 or CHEM 364 | Fundamentals of Biochemistry or Biochemistry | 3 or 4 | No Equivalent |
| MATH 220 | Analytical Geometry and Calculus 1 | 4 | MTH 161 |
| MATH 251 | Statistics for the Life Sciences | 3 | MATH 208W or MATH 209W |
| PHYS 211 | Introductory Physics 1 | 4 | PHY 111 |
| PHYS 212 | Introductory Physics 2 | 4 | PHY 112 |
| Varies | Biology Application Area Electives | 2 | Varies |
| Varies | Biology Electives - BIOL 300 Level or Higher | 5 | Varies |

PROGRAM CONTACT INFORMATION

Biology Department
(231) 591-2550

(989) 686-9256

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

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 a statewide location).

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 .
- Submit official transcripts
 - Submit official transcripts from every school attended to
 - Or mail to:
Ferris State University Admissions Office
1201 S. State St., CSS 201
Big Rapids, MI 49307

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- Submit test scores (if required)
 - ACT Scores; go to the - Ferris State University School Code: 1994
 - SAT, CLEP and AP Scores; go to the - 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 .

*Indicates an approved Ferris course substitution

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 .

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 for the most current curriculum.

Partners may contact the Office of Transfer and Secondary School Partnerships with questions or updates at .