

**Ferris Program:** Artificial Intelligence

**Degree Type:** Bachelor of Science

**Ferris College:** College of Business

**Transfer School:** North Central Michigan College (NCMC)

**Consortium Eligible:** No

**Total Credits Required:** 120-121

**Catalog Year:** 2022-2023

## GENERAL EDUCATION REQUIREMENTS – 39-40 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 105 or COMM 121 or COMM 221 | Interpersonal Communication or Fundamentals of Public Speaking or Small Group Decision Making | 3                   | COM 170 or COM 111 or COM 250 |
| ENGL 150                         | English 1   | 3                   | ENG 111                       |
| ENGL 250                         | English 2   | 3                   | ENG 112                       |
| ENGL 311 or ENGL 321 or ENGL 325 | Advanced Technical Writing or Advanced Composition or Advanced Business Writing               | 3                   | No Equivalent                 |

### Quantitative Literacy

Students must substitute General Education elective credits for MATH 114 or 115 if their Math ACT score is 24 or higher or their SAT score is 580 or higher.

| Ferris Course        | Ferris Course Title  | Ferris Credit Hours | Transfer Course                  |
|----------------------|--|---------------------|----------------------------------|
| MATH 114 or MATH 115 | Quantitative Reasoning for Professionals 2 or Intermediate Algebra | 4 or 3              | MATH 112 or MATH 112 or MATH 120 |

### Natural Sciences Competency

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

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| Ferris Course | Ferris Course Title           | Ferris Credit Hours | Transfer Course |
|---------------|-------------------------------|---------------------|-----------------|
| Varies        | Natural Sciences<br>Electives | 6                   | Varies          |

## Cultural 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 have no more than 5 credits from Cultural Competency Activities. A foreign language course is recommended.

| Ferris Course | Ferris Course Title | Ferris Credit Hours | Transfer Course |
|---------------|---------------------|---------------------|-----------------|
| Varies        | Culture Electives   | 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.

| Ferris Course           | Ferris Course Title   | Ferris Credit Hours | Transfer Course       |
|-------------------------|---|---------------------|-----------------------|
| ECON 201 or<br>ECON 202 | Principles of<br>Microeconomics or<br>Principles of<br>Macroeconomics | 3                   | ECO 112 or<br>ECO 111 |
| Varies                  | Self and Society Electives  | 6                   | Varies                |

## COLLEGE REQUIREMENTS – 80-81 Credits Required

### Major Courses

79 Credits Required. These courses are used to calculate the major 2.75 GPA requirement.

| Ferris Course | Ferris Course Title                          | Ferris Credit Hours | Transfer Course |
|---------------|--|---------------------|-----------------|
| ARTI 113      | Introduction to Artificial<br>Intelligence   | 3                   | No Equivalent   |
| CLOU 131      | Cloud Computing<br>Fundamentals              | 3                   | No Equivalent   |
| ACCT 201      | Principles of Financial<br>Accounting        | 3                   | B 211           |
| ARTI 238      | Biometrics                                   | 4                   | No Equivalent   |
| STQM 260      | Introduction to Statistics                   | 3                   | STAT 200        |
| STQM 270      | Introduction to Data<br>Mining               | 3                   | No Equivalent   |
| CLOU 280      | Current Topics in Cloud<br>and Cybersecurity | 3                   | No Equivalent   |

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| Ferris Course | Ferris Course Title                                  | Ferris Credit Hours | Transfer Course |
|---------------|--|---------------------|-----------------|
| ARTI 300      | Artificial Intelligence Concepts and Problem Solving | 3                   | No Equivalent   |
| ISIN 300      | Link and Visual Analysis                             | 3                   | No Equivalent   |
| ISIN 301      | Data Intelligence Competitive Theory                 | 3                   | No Equivalent   |
| ISIN 306      | Security Informatics                                 | 3                   | No Equivalent   |
| MKTG 321      | Principles of Marketing                              | 3                   | M 200           |
| STQM 322      | Inferential Statistics                               | 3                   | No Equivalent   |
| ISIN 325      | Database Security                                    | 3                   | No Equivalent   |
| PROJ 325      | Agile Project Management                             | 3                   | No Equivalent   |
| ARTI 330      | Natural Language Processing                          | 3                   | No Equivalent   |
| STQM 342      | Data Mining Tools                                    | 3                   | No Equivalent   |
| ARTI 350      | Machine Learning                                     | 3                   | No Equivalent   |
| STQM 360      | Risk Analysis and Strategy                           | 3                   | No Equivalent   |
| ARTI 380      | Special Topics in Artificial Intelligence            | 3                   | No Equivalent   |
| ARTI 405      | Artificial Intelligence Architecture and Design      | 3                   | No Equivalent   |
| ISIN 406      | Advanced Programming                                 | 3                   | No Equivalent   |
| ISIN 429      | Legal and Ethical Issues in Information Security     | 3                   | No Equivalent   |
| ARTI 450      | Deep Learning  | 3                   | No Equivalent   |
| ARTI 491      | Artificial Intelligence Internship                   | 3                   | No Equivalent   |
| ARTI 499      | Artificial Intelligence Capstone Experience          | 3                   | No Equivalent   |

## Elective

2 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 2 credits of elective courses to meet the required 120 credit minimum. These courses are not used to calculate the major 2.75 GPA requirement.

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| Ferris Course | Ferris Course Title | Ferris Credit Hours | Transfer Course |
|---------------|---------------------|---------------------|-----------------|
| Varies        | Elective Courses    | 2                   | Varies          |

## PROGRAM CONTACT INFORMATION

Accountancy, Finance, & Info Systems Department  
(231) 591-2434

(231) 995-1734

## ADMISSION REQUIREMENTS

### New Student Admission Requirements

- Minimum 3.00 High School GPA (on a 4.00 scale)
- Minimum Composite ACT score of 22 and ACT Math score of 22 or SAT Math score of 550.
- All students applying for admission to the Artificial Intelligence program will have to submit a 750-to-1,000-word essay that addresses the following:
  - Who they are and why they desire admission to the Artificial Intelligence program.
  - A description of a personal quality, talent, accomplishment, contribution, or experience.
  - A description of someone that influenced them and why.

### Transfer Student Admission Requirements

- Minimum 3.00 College GPA (on a 4.00 scale)
- Minimum Composite ACT score of 22 and ACT Math score of 22 or SAT Math score of 550.
- All students applying for admission to the Artificial Intelligence program will have to submit a 750-to-1,000-word essay that addresses the following:
  - Who they are and why they desire admission to the Artificial Intelligence program.
  - A description of a personal quality, talent, accomplishment, contribution, or experience.
  - A description of someone that influenced them and why.

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

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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 .