

**Ferris Program:** Information Security and Intelligence

**Degree Type:** Bachelor of Science

**Ferris College:** College of Business

**Transfer School:** Henry Ford College

**Consortium Eligible:** Yes

**Total Credits Required:** 120-128

**Catalog Year:** 2024-2025

**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 [general education page](#) 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                   | SPC 145 or SPC 131 or No Equivalent |
| ENGL 150                         | English 1                                                                                     | 3                   | ENG 131                             |
| ENGL 250                         | English 2                                                                                     | 3                   | ENG 132                             |
| ENGL 311 or ENGL 321 or ENGL 325 | Advanced Technical Writing or Advanced Composition or Advanced Business 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

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              | No Equivalent or MATH 110 or MATH 115 |

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## Natural Sciences Competency

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

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

## 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, and have no more than 5 credits from Culture 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 Microeconomics or Principles of Macroeconomics | 3                   | BEC 152 or<br>BEC 151 |
| Varies                  | Self and Society Elective                                    | 6                   | Varies                |

## COLLEGE REQUIREMENTS – 81-87 Credits Required

### Business Core Requirements

12 Credits Required. These courses are used to calculate the major 2.00 GPA requirement.

| Ferris Course | Ferris Course Title                | Ferris Credit Hours | Transfer Course |
|---------------|------------------------------------|---------------------|-----------------|
| ACCT 201      | Principles of Financial Accounting | 3                   | BAC 131         |
| STQM 260      | Introduction to Statistics         | 3                   | MATH 141        |
| MGMT 301      | Applied Management                 | 3                   | MGT 130         |
| MKTG 321      | Principles of Marketing            | 3                   | BBA 252         |

### Major Courses

57 Credits Required. These courses are used to calculate the major 2.00 GPA requirement.

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| Ferris Course | Ferris Course Title                                     | Ferris Credit Hours | Transfer Course |
|---------------|---------------------------------------------------------|---------------------|-----------------|
| ISIN 121      | Digital Security Awareness                              | 3                   | No Equivalent   |
| ISIN 200      | Secure Digital Technologies                             | 3                   | No Equivalent   |
| ISIN 209      | Network Security                                        | 3                   | No Equivalent   |
| STQM 270      | Introduction to Data Mining                             | 3                   | No Equivalent   |
| ISIN 300      | Link and Visual Analysis                                | 3                   | No Equivalent   |
| ISIN 301      | Data and Intelligence Competitive Theory                | 3                   | No Equivalent   |
| ISIN 306      | Security Informatics                                    | 3                   | No Equivalent   |
| ISIN 308      | Principles of Information Security                      | 3                   | No Equivalent   |
| DFOR 310      | Digital Forensics and Analysis                          | 3                   | No Equivalent   |
| ISIN 312      | Applications of Information Security                    | 3                   | No Equivalent   |
| ISIN 317      | Fraud Examination                                       | 3                   | No Equivalent   |
| PROJ 320      | Project Management Fundamentals                         | 3                   | No Equivalent   |
| ISIN 325      | Database Security                                       | 3                   | No Equivalent   |
| STQM 360      | Risk Analysis and Strategy                              | 3                   | No Equivalent   |
| ISIN 380      | Current Issues in Information Security and Intelligence | 3                   | No Equivalent   |
| ISIN 409      | Network Forensics and Analysis                          | 3                   | No Equivalent   |
| ISIN 429      | Legal and Ethical Issues in Information Security        | 3                   | No Equivalent   |
| ISIN 491      | Information Security and Intelligence Internship        | 3                   | No Equivalent   |
| ISIN 499      | Capstone Experience                                     | 3                   | No Equivalent   |

## CONCENTRATION OR MINOR – 12-18 Credits Required

A minimum of 12 credits is required, choose one of the following: 1) A prescribed concentration from within this section; 2) A custom concentration that can be developed with an advisor; 3) An advisor approved minor. It is important to note that all courses and concentrations may not be available at all campuses.

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## Digital Forensics and Penetration Testing Concentration (DFPN)

12 Credits Required. These courses are not used to calculate the major 2.00 GPA requirement.

| Ferris Course | Ferris Course Title                     | Ferris Credit Hours | Transfer Course |
|---------------|-----------------------------------------|---------------------|-----------------|
| DFOR 315      | Advanced Digital Forensics              | 3                   | No Equivalent   |
| ISIN 335      | Penetration Testing and Cloud Security  | 3                   | No Equivalent   |
| ISIN 430      | Penetration Testing and Mobile Security | 3                   | No Equivalent   |
| DFOR 454      | CyberSec Incident Response              | 3                   | No Equivalent   |

## Data Mining Concentration (DTMN) (Available at the Big Rapids Campus Only)

12 Credits Required. These courses are not used to calculate the major 2.00 GPA requirement.

| Ferris Course | Ferris Course Title                    | Ferris Credit Hours | Transfer Course |
|---------------|----------------------------------------|---------------------|-----------------|
| STQM 322      | Inferential Statistics                 | 3                   | No Equivalent   |
| ISIN 335      | Penetration Testing and Cloud Security | 3                   | No Equivalent   |
| STQM 342      | Data Mining Tools                      | 3                   | No Equivalent   |
| Varies        | Directed Elective (Advisor Approval)   | 3                   | No Equivalent   |

## Foreign Language Concentration (FRL)

12 Credits Required. These courses are not used to calculate the major 2.00 GPA requirement.

| Ferris Course | Ferris Course Title       | Ferris Credit Hours | Transfer Course |
|---------------|---------------------------|---------------------|-----------------|
| Varies        | Varies (Advisor Approval) | 12                  | Varies          |

## Custom Concentration (CUST)

12 Credits Required. These courses are not used to calculate the major 2.00 GPA requirement.

| Ferris Course | Ferris Course Title       | Ferris Credit Hours | Transfer Course |
|---------------|---------------------------|---------------------|-----------------|
| Varies        | Varies (Advisor Approval) | 12                  | Varies          |

## Minor

18 Credits Required. These courses are not used to calculate the major 2.00 GPA requirement.

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| Ferris Course | Ferris Course Title       | Ferris Credit Hours | Transfer Course |
|---------------|---------------------------|---------------------|-----------------|
| Varies        | Varies (Advisor Approval) | 18                  | Varies          |

## PROGRAM CONTACT INFORMATION

### College of Business

Accountancy, Finance, & Info Systems Department

(231) 591-2434

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

### Ferris Online

(231) 591-2340

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

Ferris Statewide - Southeast Michigan

(586) 445-7150

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

## 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 Information Security and 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 Information Security and 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

- Combined college or university GPA of 3.00 (on a 4.00 scale) from all institutions attended.
- GPA is based on completion of 24 credit hours or more.
- Completion of the transfer equivalency for Ferris State University's MATH 115 with a grade of C or higher or have either a minimum ACT Math score of 22 or SAT Math score of 550.
- All students applying for admission to the Information Security and 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 Information Security and Intelligence program.
  - A description of a personal quality, talent, accomplishment, contribution, or experience.
  - A description of someone that influenced them and why.

## 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](#).

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- 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

## 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](http://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

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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).