

The Information Security & Intelligence (ISI) program is the only ABET accredited cybersecurity program in Michigan. The ISI program is also a National Security Agency Center of Academic Excellence in Cyber Defense Education and a Department of Defense Center of Digital Forensic Academic Excellence. The ISI degree prepares you for a variety of career possibilities in fields that allow you to see your contribution in action. Computer Forensics, Information Security, Intelligence/Big Data, Incident Response, and Mobile Security are a few of the possibilities. Opportunities exist in the government, security, intelligence, health care, insurance, finance, and education fields.

Please visit www.ferris.edu/business/information-security-intelligence to see the current minimum computer specs for ISIN students.

Communication Competency

FSU Course	FSU Course Title	FSU Cr. Hrs.	NMC Equiv.	NMC Course Title	NMC Cr. Hrs.
COMM 105 or COMM 121 or COMM 221	Interpersonal Communication or Fundamentals of Public Speaking or Small Group Decision Making	3	BUS 155 or COM 111 or No Equivalent	Interpersonal Communication or Public Speaking or No Equivalent	3 - 4
ENGL 150	English 1	3	ENG 111	English Composition	4
ENGL 250	English 2	3	ENG 112	English Composition	4
ENGL 311 or ENGL 321 or ENGL 325	Advanced Technical Writing or Advanced Composition or Advanced Business Writing	3	No Equivalent	No Equivalent	0

Quantitative Literacy – See below or Official Pre-2016 Math SAT Score of 560 or Higher, Official Post-2016 MATH SAT Score of 580 or Higher, or 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.

FSU Course	FSU Course Title	FSU Cr. Hrs.	NMC Equiv.	NMC Course Title	NMC Cr. Hrs.
MATH 114 or MATH 115	Quantative Reasoning for Pro 2 or Intermediate Algebra	4 or 3	No Equivalent or MTH 111	No Equivalent or Intermediate Algebra	4

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

FSU Course	FSU Course Title	FSU Cr. Hrs.	NMC Equiv.	NMC Course Title	NMC Cr. Hrs.
Varies	Natural Sciences Electives	6	Varies	Varies	6

Culture Competency – Three courses are required with a minimum of 9 credits: must be from 2 different disciplines, have at least 1 at FSU 200 level or higher course. *A foreign language course is recommended.*

FSU Course	FSU Course Title	FSU Cr. Hrs.	NMC Equiv.	NMC Course Title	NMC Cr. Hrs.
Varies	Culture Electives	9	Varies	Varies	9

Self and Society Competency – 3 courses are required with a minimum of 9 credits: must be from two different disciplines and have at least one FSU 200 level or higher course.

FSU Course	FSU Course Title	FSU Cr. Hrs.	NMC Equiv.	NMC Course Title	NMC Cr. Hrs.
ECON 201 or ECON 202	Principles of Microeconomics or Principles of Macroeconomics	3	ECO 202 or ECO 201	Principles of Microeconomics or Principles of Macroeconomics	3
Varies	Self and Society Electives	6	Varies	Varies	6

Students are encouraged to work with an advisor to select appropriate general education courses or may visit www.ferris.edu/gened.

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
- 1 course with the U.S. Diversity attribute

College Requirements – 81 to 87 Credits Required**Major Courses – 57 credits required**

FSU Course	FSU Course Title	FSU Cr. Hrs.	NMC Equiv.	NMC Course Title	NMC Cr. Hrs.
ISIN 121	Digital Security Awareness	3	No Equivalent	No Equivalent	0
ISIN 200	Secure Digital Technologies	3	CIT 256	Linux Administration	3
ISIN 209	Network Security	3	No Equivalent	No Equivalent	0
STQM 270	Introduction to Data Mining	3	No Equivalent	No Equivalent	0
ISIN 300	Link & Visual Analysis	3	No Equivalent	No Equivalent	0
ISIN 301	Data & Intelligence Competitive Theory	3	No Equivalent	No Equivalent	0
ISIN 306	Security Informatics	3	No Equivalent	No Equivalent	0
ISIN 308	Principles of Information Security	3	No Equivalent	No Equivalent	0
DFOR 310	Digital Forensics & Analysis	3	No Equivalent	No Equivalent	0
ISIN 312	Applications of Information Security	3	No Equivalent	No Equivalent	0
ISIN 317	Fraud Examination	3	No Equivalent	No Equivalent	0
PROJ 320	Project Management Fundamentals	3	CIT 233	Project Management	3
ISIN 325	Database Security	3	No Equivalent	No Equivalent	0
STQM 360	Risk Analysis & Strategy	3	No Equivalent	No Equivalent	0
ISIN 380	Current Issues in Information Security & Intelligence	3	No Equivalent	No Equivalent	0
ISIN 409	Network Forensics & Analysis	3	No Equivalent	No Equivalent	0
ISIN 429	Legal & Ethical Issues in Information Security	3	No Equivalent	No Equivalent	0
ISIN 491	Information Security & Intelligence Internship	3	No Equivalent	No Equivalent	0
ISIN 499	Capstone Experience	3	No Equivalent	No Equivalent	0

Business Core Requirements – 12 credits required

FSU Course	FSU Course Title	FSU Cr. Hrs.	NMC Equiv.	NMC Course Title	NMC Cr. Hrs.
ACCT 201	Principles of Financial Accounting	3	ACC 121	Accounting Principles 1	4
STQM 260	Introduction to Statistics	3	MTH 131	Intro to Probability -Statistics	3
MGMT 301	Applied Management	3	MGT 241	Principles of Management	3
MKTG 321	Principles of Marketing	3	MKT 201	Principles of Marketing	3

Concentration or Minor – 12 – 18 Credits Required (Advisor Approval)

A minimum of 12 credits is required, choose one of the following:

1. A prescribed concentration from within this section; these courses are not used to calculate the major 2.00 GPA requirement.
2. A custom concentration that can be developed with an advisor; these courses are not used to calculate the major 2.00 GPA requirement.
3. An advisor approved minor; these courses are not used to calculate the major 2.00 GPA.

Digital Forensics and Penetration Testing Concentration (DFPN) – 12 Credits Required

FSU Course	FSU Course Title	FSU Cr. Hrs.	NMC Equiv.	NMC Course Title	NMC Cr. Hrs.
DFOR 315	Advanced Digital Forensics	3	No Equivalent	No Equivalent	0
ISIN 335	Penetration Testing & Cloud Security	3	No Equivalent	No Equivalent	0
ISIN 430	Penetration Testing & Mobile Security	3	No Equivalent	No Equivalent	0
DFOR 454	CyberSec Incident Response	3	No Equivalent	No Equivalent	0

Data Mining Concentration (DTMM) – 12 Credits Required –This concentration is available at the Main Big Rapids Campus only.

FSU Course	FSU Course Title	FSU Cr. Hrs.	NMC Equiv.	NMC Course Title	NMC Cr. Hrs.
STQM 322	Inferential Statistics	3	No Equivalent	No Equivalent	0
ISIN 335	Pen Testing and Cloud Security	3	No Equivalent	No Equivalent	0
STQM 342	Data Mining Tools	3	No Equivalent	No Equivalent	0
Varies	Directed Elective	3	No Equivalent	No Equivalent	0

Foreign Language Concentration (FRL) - 12 credits Required

FSU Course	FSU Course Title	FSU Cr. Hrs.	NMC Equiv.	NMC Course Title	NMC Cr. Hrs.
Varies	Varies	12	Varies	Varies	12

Custom Concentration (CUST) - 12 credits Required

FSU Course	FSU Course Title	FSU Cr. Hrs.	NMC Equiv.	NMC Course Title	NMC Cr. Hrs.
Varies	Directed Electives	12	Varies	Varies	12

Ferris State University and Northwestern Michigan College – Information Security and Intelligence – Transfer Guide

Effective 2022-2023

Ferris State University is an equal opportunity institution. For information on the University's Policy on Non-Discrimination, visit ferris.edu/non-discrimination.

Minor - 18 credits Required

FSU Course	FSU Course Title	FSU Cr. Hrs.	NMC Equiv.	NMC Course Title	NMC Cr. Hrs.
Varies	Varies	18	Varies	Varies	18
Total Credits Required for Degree					120 - 128

No more than 90 credits may be transferred from the community college to Ferris State University.

Program Delivery Locations and Contact Information:

Main Campus, Big Rapids

College of Business

(231) 591-2434 | afis@ferris.edu | www.ferris.edu/cob

Ferris Statewide – Online

(231) 591-2340 | online@ferris.edu | www.ferris.edu/online | [Financial Aid Consortium Eligible](#)

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).

General Admission Criteria

New Student Admission Requirements for incoming freshman refer to the Ferris Catalog www.ferris.edu/catalog

Online 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.
- Take a lab science course and ENGL 150 prior to admission to the Information Security and Intelligence program.
- 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 based on completion of 24 credit hours or more.
- Completion of the transfer equivalency for FSU's MATH 115 with a grade of C or higher or have either a minimum ACT Math score of 22 or minimum 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.

Steps to Apply

- Complete a free application at www.ferris.edu/apply.
 - Submit Official transcripts from every school attended to transfer@ferris.edu or
 - Ferris State University Admissions Office, 1201 S. State St, CSS 201, Big Rapids, MI 49307
- Submit Test Scores (if required)
 - ACT Scores; go to www.act.org. Ferris State University School Code: 1994
 - SAT, CLEP and AP Scores; go to www.collegeboard.org. Ferris State University School Code: 1222

Advising Notes

It is recommended that potential applicants 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 general education or elective course work may 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 toward graduation.

It is recommended that students have, or have access to, a laptop or desktop computer with Windows or OSX/MacOS, 8 GB Ram (16 GB recommended), 500 GB HDD or SSD, and CPU minimum i5 or equivalent.

Transfer Student Orientation

All new students to Ferris State University are required to complete an orientation.

Reverse Transfer Agreement

Northwestern Michigan College and Ferris have entered into a partnership in order to work collaboratively and creatively to increase student completion of associate and bachelor's degrees. The partners work together to provide a seamless transfer experience and increase student retention and completion at both the Northwestern Michigan College and Ferris.

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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.

Students must work with their Ferris advisor to declare a Minor or Concentration and for selection of Directed Electives.

Partners may contact the Transfer Services Center with questions or updates at transferguidesarticulations@ferris.edu.