

Mid Michigan College (MMC) Articulation Agreement and Transfer Guide

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.	MMC Equiv.	MMC Course Title	MMC Cr. Hrs.
COMM 105 or COMM 121 or COMM 221	Interpersonal Communication or Fundamentals of Public Speaking or Small Group Decision Making	3	COM 261 or COM 101 or COM 253	Interpersonal Communication or Fundamentals of Communication or Small Group Communication	3
ENGL 150	English 1	3	ENG 111	Freshman English Composition	3
ENGL 250	English 2	3	ENG 222	Expository Writing & Research	3
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.	MMC Equiv.	MMC Course Title	MMC Cr. Hrs.
MATH 115	Intermediate Algebra	3	MAT 105 or MAT 107	Intermediate Algebra or College Algebra	3

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.	MMC Equiv.	MMC Course Title	MMC Cr. Hrs.
Varies	Natural Science 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, and have no more than 5 credits from Cultural Competency Activities. *A foreign language course is recommended.*

FSU Course	FSU Course Title	FSU Cr. Hrs.	MMC Equiv.	MMC Course Title	MMC 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.	MMC Equiv.	MMC Course Title	MMC Cr. Hrs.
ECON 201 or ECON 202	Principles of Microeconomics or Principles of Macroeconomics	3	ECO 202 or ECO 201	Principles of Economics (microeconomics) or Principles of Economics (macroeconomics) or	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

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

FSU Course	FSU Course Title	FSU Cr. Hrs.	MMC Equiv.	MMC Course Title	MMC Cr. Hrs.
ISIN 121	Digital Security Awareness	3	CIS 185	Introduction to Cybersecurity	3
ISIN 200	Secure Digital Technologies	3	CIS 155	Computer Operating Systems	3
ISIN 209	Network Security	3	CIS 170	Networking Essentials	3
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	BUS 270	Principles of 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

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

FSU Course	FSU Course Title	FSU Cr. Hrs.	MMC Equiv.	MMC Course Title	MMC Cr. Hrs.
ACCT 201	Principles of Financial Accounting	3	ACC 201	Financial Accounting	4
STQM 260	Introduction to Statistics	3	MAT 212	Intro to Probability & Statistics	3
MGMT 301	Applied Management	3	No Equivalent	No Equivalent	0
MKTG 321	Principles of Marketing	3	BUS 162	Principles of Marketing	3

Concentration or Minor – 12 to 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.

Custom Concentration (CUST) - 12 Credits Required - (Choose 4 classes)

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

FSU Course	FSU Course Title	FSU Cr. Hrs.	MMC Equiv.	MMC Course Title	MMC Cr. Hrs.
ECNS 115	Networks 1	3	CIS 190	Introduction to Cisco Networking	3
ECNS 125	Networks 2	3	CIS 195	Switching, Routing and Wireless Essentials	3
ISIN 2--	ISIN General Credit-200 Level	3	CIS 215	Cybersecurity Operations	3
CITS 2--	CITS General Credit-200 Level	3	CIS 255	Linux Fundamentals	3
ISIN 2--	ISIN General Credit-200 Level	3	CIS 285	Network Cybersecurity	3
ISIN 2--	ISIN General Credit-200 Level	3	CIS 290	Enter Networking, Security and Automation	3

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

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

FSU Course	FSU Course Title	FSU Cr. Hrs.	MMC Equiv.	MMC Course Title	MMC 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

Ferris State University and Mid Michigan College – Information Security and Intelligence – Articulation Agreement and Transfer Guide

Effective September 1, 2022 – September 1, 2025

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

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

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

FSU Course	FSU Course Title	FSU Cr. Hrs.	MMC Equiv.	MMC Course Title	MMC 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 - Advisor Approval

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

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

Minor - 18 Credits Required - Advisor Approval

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

FSU Course	FSU Course Title	FSU Cr. Hrs.	MMC Equiv.	MMC Course Title	MMC Cr. Hrs.
Varies	Varies	18	Varies	Varies	18

Total Credits Required for Degree	120 - 128
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To fulfill the residency requirement for a bachelor's degree a student must earn a minimum of 30 credits from 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

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 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.

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.

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, 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 course work 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 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 at www.ferris.edu/transfer/collegetransfer.

**Indicates an approved Ferris course substitution*

Reverse Transfer Agreement

Ferris has reserve transfer agreements with several Michigan Community College. 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 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.

Disclaimer

Transfer guides are not intended to be a contract with Ferris. The information on this guide is subject to change and is aligned to 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 www.ferris.edu/catalog.

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

Original Signed Articulation Agreement

The original, signed document is kept on file in the Office of Transfer and Secondary School Partnerships. To obtain a copy of the original, signed document, contact the Office of Transfer and Secondary School Partnerships at transferguidesarticulations@ferris.edu.

This Agreement may be executed in counterparts, each of which shall be deemed an original, but all of which together shall be deemed to be one and the same agreement. A signed copy of this Agreement delivered by facsimile, e-mail, or other means of electronic transmission shall be deemed to have the same legal effect as delivery of an original signed copy of this Agreement.

Indemnification To the extent permitted by law, Ferris State University and Mid Michigan College agree to indemnify and hold one another harmless from any and all claims initiated by student participants, their parents, survivors, or agents, arising from any negligent acts or omission on the part of either institution or any of their employees.

Articulation Agreement

Effective Dates: September 1, 2022 – September 1, 2025

This Agreement shall commence as of September 1, 2022 and shall be for an initial term of three years. Minor updates to the agreement may be made during this time. This agreement may be renewed at the end of three years. Either party may terminate this agreement by providing the other party with written notice of the intent to terminate the agreement. The agreement shall terminate not less than one hundred eighty (180) days from the date of the termination notice, unless otherwise agreed in writing by both parties.

Signatures

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