

Northwestern Michigan College (NMC) Transfer Guide

The Artificial Intelligence (AI) program prepares students for careers in one of the fastest growing fields, with focus areas in Cybersecurity, Internet of Things, Machine Learning, and Natural Language Processing. This includes using voice and other biometric data to control personal, household, transportation and industrial applications. Students learn how to define, design and deliver solutions using various AI technologies and capabilities in an ethical and meaningful way. The AI program is the only Bachelor of Science program in Michigan, and one of only a handful in the United States. Being a pioneer in new technology is a long running tradition at Ferris State University, and the AI program is yet another in a long list of high-tech STEM programs at Ferris.

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.

FSU Course	FSU Course Title	FSU Cr. Hrs.	NMC Equiv.	NMC Course Title	NMC Cr. Hrs.
MATH 114 or MATH 115	Quantitative 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.

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 – 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.

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 & Society Elective	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 Credits Required

Major Requirements – 79 Credits Required

FSU Course	FSU Course Title	FSU Cr. Hrs.	NMC Equiv.	NMC Course Title	NMC Cr. Hrs.
ARTI 113	Introduction to Artificial Intelligence	3	No Equivalent	No Equivalent	0
CLOU 131	Cloud Computing Fundamentals	3	No Equivalent	No Equivalent	0
ACCT 201	Principles of Financial Accounting	3	ACC 121	Accounting Principles 1	4
ARTI 238	Biometrics	4	No Equivalent	No Equivalent	0
STQM 260	Introduction to Statistics	3	MTH 131	Intro to Probability -Statistics	3
STQM 270	Introduction to Data Mining	3	No Equivalent	No Equivalent	0
CLOU 280	Current Topic in Cloud and Cyber	3	No Equivalent	No Equivalent	0
ARTI 300	Artificial Intelligence Concepts and Problem Solving	3	No Equivalent	No Equivalent	0
ISIN 300	Link and 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
MKTG 321	Principles of Marketing	3	MKT 201	Principles of Marketing	3
STQM 322	Inferential Statistics	3	No Equivalent	No Equivalent	0
ISIN 325	Database Security	3	No Equivalent	No Equivalent	0
PROJ 325	Agile Project Management	3	No Equivalent	No Equivalent	0
ARTI 330	Natural Language Processing	3	No Equivalent	No Equivalent	0
STQM 342	Data Mining Tools	3	No Equivalent	No Equivalent	0
ARTI 350	Machine Learning	3	No Equivalent	No Equivalent	0
STQM 360	Risk Analysis and Strategy	3	No Equivalent	No Equivalent	0
ARTI 380	Special Topics in Artificial Intelligence	3	No Equivalent	No Equivalent	0
ARTI 405	Artificial Intelligence Architecture and Design	3	No Equivalent	No Equivalent	0
ISIN 406	Advanced Programming	3	No Equivalent	No Equivalent	0
ISIN 429	Legal and Ethical Issues in Information Security	3	No Equivalent	No Equivalent	0
ARTI 450	Deep Learning	3	No Equivalent	No Equivalent	0
ARTI 491	Artificial Intelligence Internship	3	No Equivalent	No Equivalent	0
ARTI 499	Artificial Intelligence Capstone Experience	3	No Equivalent	No Equivalent	0

Electives – 2 Credit Required. In order to graduate with a bachelor's degree, a student must have a minimum of 120 credits and 40 credits of 300 level or higher courses must be earned. The electives required for each student may vary depending on courses taken.

FSU Course	FSU Course Title	FSU Cr. Hrs.	NMC Equiv.	NMC Course Title	NMC Cr. Hrs.
Varies	Electives to bring total hours to 120	2	Varies	Varies	2

Total Credits Required for Degree **120 – 122**

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

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 Students

- Minimum 3.00 High School GPA (on a 4.00 scale)
- Minimum ACT Composite score of 22 and ACT Math score of 22 or SAT Math score of 550.
- All students applying for admissions to the Artificial Intelligence program will have to submit a 750 – 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 who influenced them and why.

Transfer Student

- 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.

Transfer Student Orientation

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

Reverse Transfer Agreement

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

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.

Disclaimer

This is a guide for students who plan to transfer to Ferris State University. This guide is not intended to be a contract with Ferris. The information on this guide is subject to change. **Students should contact their community college or Ferris to keep informed of changes.** Final responsibility for verifying all transfer information lies with the student. Please refer to effective and/or revised date on the bottom of this guide and the Ferris Catalog at www.ferris.edu/catalog.

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