

The Computer Information Systems (CIS) degree at Ferris State University prepares students to become professionals who can connect core business functions with the problem-solving capabilities of computers and information systems. Using the latest technology, students learn to design, develop, implement, and maintain information systems that help solve real-world business problems and power organizations. In addition to their CIS major, students take business courses that give them a good understanding of the business world that they will work. Students will also develop people skills, which sets them apart from their competitors and positions them to be future business leaders. This program has close relationships with the IT industry through a program advisory board and requires internships as a practical hands-on experience.

The Bachelor of Science in Computer Information Systems is accredited by the Accreditation Council for Business Schools & Programs (ACBSP). (<https://acbsp.org/>)

#### Communication Competency

FSU Course	FSU Course Title	FSU Cr. Hrs.	MCC Equiv.	MCC Course Title	MCC Cr. Hrs.
COMM 121	Fundamentals of Public Speaking	3	COM 201	Public Speaking	3
ENGL 150	English 1	3	ENG 101	English Composition	3
ENGL 250	English 2	3	ENG 102	English Composition	3
ENGL 311 or ENGL 325	Advanced Technical Writing 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.	MCC Equiv.	MCC Course Title	MCC Cr. Hrs.
MATH 114 or MATH 115	Quantitative Reasoning for Pro 2 or Intermediate Algebra	4 or 3	No Equivalent or MATH 100A or MATH 109	No Equivalent or Intermediate Algebra or College Algebra with Applications	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.	MCC Equiv.	MCC Course Title	MCC 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.	MCC Equiv.	MCC Course Title	MCC 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.	MCC Equiv.	MCC Course Title	MCC Cr. Hrs.
ECON 201	Principles of Microeconomics	3	ECON 102A	Principles of Microeconomics	4
ECON 202	Principles of Macroeconomics	3	ECON 101A	Principles of Macroeconomics	4
Varies	Self and Society Elective	3	Varies	Varies	3

**Computer Information Systems** degree students must complete **39 to 41** general education credits to meet College of Business and University requirements.

Students are encouraged to work with an advisor to select appropriate general education courses or may visit [www.ferris.edu/gened](http://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 – 84 Credits Required****Business Core Requirements – 30 Credits Required**

FSU Course	FSU Course Title	FSU Cr. Hrs.	MCC Equiv.	MCC Course Title	MCC Cr. Hrs.
ACCT 201	Principles of Financial Acct.	3	ACC 201	Principles of Accounting 1	4
ACCT 202	Principles of Managerial Acct.	3	ACC 202	Principles of Accounting 2	4
STQM 260	Introduction to Statistics	3	MATH 115A	Probability and Statistics	4
MGMT 301	Applied Management	3	BUS 122	Principles of Management	3
BLAW 321	Contracts & Sales	3	No Equivalent	No Equivalent	0
MKTG 321	Principles of Marketing	3	BUS 260	Principles of Marketing	3
MGMT 370	Quality & Operations Mgmt.	3	No Equivalent	No Equivalent	0
FINC 322	Financial Management 1	3	No Equivalent	No Equivalent	0
ISYS 321	Business Information Systems	3	No Equivalent	No Equivalent	0
BUSN 499	Integrating Experience	3	No Equivalent	No Equivalent	0

**Major Courses – 54 Credits Required**

FSU Course	FSU Course Title	FSU Cr. Hrs.	MCC Equiv.	MCC Course Title	MCC Cr. Hrs.
ISYS 110	Fundamentals of Programming Design & Logic	3	CIS 185	C Programming	3
ISYS 188	Web Design and Development	3	No Equivalent	No Equivalent	0
ISYS 216	Introduction to Programming	3	CIS 162	Visual C# Programming	3
ISYS 221	Mobile Application Development	3	No Equivalent	No Equivalent	0
ISYS 272	Fundamentals of Database Systems	3	CIS 253A	Database Design and Implementation	3
ISYS 288	Web Application Development	3	CIS 228	JavaScript	3
ISYS 316	Advanced Programming	3	CIS 280	Java Programming	3
PROJ 320	Project Management Fundamentals	3	No Equivalent	No Equivalent	0
ISYS 327	Operating Systems & Network Essentials	3	No Equivalent	No Equivalent	0
ISYS 330	Systems Analysis & Design 1	3	CIS 250	Developing Information Systems	3
ISYS 372	Advanced Database Systems Administration	3	No Equivalent	No Equivalent	0
ISYS 431	Systems Analysis & Design 2	3	No Equivalent	No Equivalent	0
ISYS 482	Enterprise Integration & Business Process Design	3	No Equivalent	No Equivalent	0
ISYS 489	Senior Capstone	3	No Equivalent	No Equivalent	0
ISYS 491	*CIS Internship	3	No Equivalent	No Equivalent	0

**Directed Electives**

FSU Course	FSU Course Title	FSU Cr. Hrs.	MCC Equiv.	MCC Course Title	MCC Cr. Hrs.
ISYS 1--	ISYS General Credit 100 level	1	CIS 153A	Database Management – Access	1
ISYS 2--	ISYS General Credit 200 level	3	CIS 257A	HTML for Internet Web Page Design	3
Varies	Varies	5	Varies	Approved CC Directive Electives: BUS 220, CIS 104, CIS 105, CIS 109, CIS 121, CIS 124, CIS 131, CIS 143, CIS 162, CIS 170, CIS 183, CIS 198, CIS 199, CIS 201, CIS 202, CIS 209, CIS 243, CIS 244, CIS 267PHP, CIS 270A, CIS 275, CIS 283, CIS 284 and CIS 293A. (Note: These are the only pre-approved Directive Electives, see your FSU faculty advisor to determine additional options.)	5

\*CIS Internship not required with 1+ year work experience in field. Credits will be substituted with directive elective (See FSU advisor).

**CIS / CIT credits that are not part of a completed degree, either transfer or Ferris, that are older than 10 years will not be counted toward the degree requirements for CIS / CIT program. Exceptions to this rule may be considered by petitioning the program coordinator.**

<b>Total Credits Required for Degree</b>	<b>123-125</b>
--	----------------

**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](mailto:afis@ferris.edu) | [www.ferris.edu/cob](http://www.ferris.edu/cob)

### Ferris Statewide – Muskegon\*

(616) 451-4777 | [FerrisMuskegon@ferris.edu](mailto:FerrisMuskegon@ferris.edu) | [www.ferris.edu/statewide](http://www.ferris.edu/statewide) | [Financial Aid Consortium Eligible](#)

\*Muskegon students take their Ferris classes at the Grand Rapids location

*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](http://www.ferris.edu/catalog)

### Transfer Students

- Combined college or university GPA of 2.35 (on a 4.00 scale) from all institutions attended. GPA based on completion of 12 credit hours or more. Developmental courses will not be considered in computing the GPA requirement.
- Transfer equivalency for FSU ENGL 150 or placement during the first semester at FSU which would require an ACT English score of 16 or higher; or SAT ERW score of 450 or higher; or Accuplacer English score of 6 or higher.
- Transfer equivalency for FSU MATH 114 or 115 or placement during the first semester at FSU which would require an ACT MATH score of 19 or higher; SAT MATH of 500 or higher; or Accuplacer Math scores: Elementary Algebra score 75 or higher and College Level Math 0-49.

### Degree Completion at the Community College through Ferris Statewide

- Minimum 48 transferable credit hours (C or higher) from an accredited college or university.

### Steps to Apply

- Complete a free application at [www.ferris.edu/apply](http://www.ferris.edu/apply).
  - Submit Official transcripts from every school attended to [transfer@ferris.edu](mailto: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](http://www.act.org). Ferris State University School Code: 1994
  - SAT, CLEP and AP Scores; go to [www.collegeboard.org](http://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](http://www.ferris.edu/catalog).

Partners may contact the Transfer Services Center with questions or updates at [transferguidesarticulations@ferris.edu](mailto:transferguidesarticulations@ferris.edu).