

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.	GRCC Equiv.	GRCC Course Title	GRCC Cr. Hrs.
COMM 121	Fundamentals of Public Speaking	3	COM 131	Fundamentals of Public Speaking	3
ENGL 150	English 1	3	EN 101	English Composition 1	3
ENGL 250	English 2	3	EN 102	English Composition 1	3
ENGL 311 or ENGL 325	Advanced Technical Writing or Advanced Business Writing	3	EN 249 or No Equivalent	Technical Writing or No Equivalent	3

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.	GRCC Equiv.	GRCC Course Title	GRCC Cr. Hrs.
MATH 114 or MATH 115	Quantitative Reasoning for Pro 2 or Intermediate Algebra	4 or 3	BA 150 or MA 107	Mathematical Apps in Business 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.	GRCC Equiv.	GRCC Course Title	GRCC 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.	GRCC Equiv.	GRCC Course Title	GRCC 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.	GRCC Equiv.	GRCC Course Title	GRCC Cr. Hrs.
ECON 201	Principles of Microeconomics	3	EC 252	Principles of Microeconomics	3
ECON 202	Principles of Macroeconomics	3	EC 251	Principles of Macroeconomics	3
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

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.	GRCC Equiv.	GRCC Course Title	GRCC Cr. Hrs.
ACCT 201	Principles of Financial Acct.	3	BA 256	Principles of Accounting 1	4
ACCT 202	Principles of Managerial Acct.	3	BA 257	Principles of Accounting 2	4
STQM 260	Introduction to Statistics	3	BA 254 or MA 215 or PY 281	Introduction to Statistics or Statistics or Introduction to Statistics	3 - 4
MGMT 301	Applied Management	3	BA 283	Business Management	3
BLAW 321	Contracts & Sales	3	No Equivalent	No Equivalent	0
MKTG 321	Principles of Marketing	3	BA 270	Marketing	3
MGMT 370	Quality & Operations Mgmt.	3	BA 175 and BA 278	Supply Chain Management and Transportation and Logistics	6
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.	GRCC Equiv.	GRCC Course Title	GRCC Cr. Hrs.
ISYS 110	Fundamentals of Programming Design & Logic	3	CIS 116	Introduction to Computer Programming	3
ISYS 188	Web Design and Development	3	No Equivalent	No Equivalent	0
ISYS 216	Introduction to Programming	3	CIS 117 or CIS 127	Java Programming 1 or C++ Programming 1	3
ISYS 221	Mobile Application Development	3	CIS 274	Application Development and Security for Mobile Devices	3
ISYS 272	Fundamentals Database Systems	3	CIS 171	Database Design & Development	3
ISYS 288	Web Application Development	3	CIS 247	Web Application Programming 2	3
ISYS 316	Advanced Programming	3	CIS 217 or CIS 227	Java Programming 2 or C++ Programming 2	3
PROJ 320	Project Mgmt. Fundamentals	3	No Equivalent	No Equivalent	0
ISYS 327	Operating Systems & Network Essentials	3	CIS 233	Network +	3
ISYS 330	Systems Analysis & Design 1	3	CIS 224	Introduction to System Analysis	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.	CC Equiv.	CC Course Title	CC Cr. Hrs.
Varies	Varies	9	Varies	Approved CC Directive Electives: CIS 125, CIS 129, CIS 132, CIS 135, CIS 148, CIS 156, CIS 170, CIS 175, CIS 176, **CIS 178, CIS 223, CIS 225, CIS 229, CIS 232, CIS 234, CIS 235, CIS **CIS 241, 265, CIS 266, CIS 271, CIS 275, CIS 276, and CIS 285 (Note: These are the only pre-approved Directive Electives, see your FSU faculty advisor to determine additional options.)	9

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

**GRCC's CIS 178 and CIS 241 are prerequisite courses for CIS 247 and CIS 274.

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.

Total Credits Required for Degree	123-125
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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 – Grand Rapids

(616) 451-4777 | fsugr@ferris.edu | www.ferris.edu/statewide | [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

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.
 - 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.