

## Muskegon Community College (MCC) Articulation Agreement and Transfer Guide

The Computer Information Systems Bachelor of Science degree offered through the College of Business at Ferris prepares students to be team leaders in the development and maintenance of Business Information Systems. Starting positions include application programmer/analyst, business analyst, systems analyst, networking administrators, consultants, software developers, computer support specialist, systems administrators, project leaders and web developers.

To assure relevance and enduring value, our Computer Information Systems (CIS) program has been designed to align with the national standard (IS2002) established by computing professionals. In addition, we have drawn upon our tight linkages with industry to assure that our labs and our required internships provide the level of hands-on experience that ensures our students are sought after by employers who recognize Ferris as a source of skilled, knowledgeable IS/IT graduates that can hit the ground running and grow from there.

Computers and Information Systems have become essential to all aspects of business and life. Professionals are needed to relate the problem-solving abilities of a computer system to an individual business department, corporation, or multi-national enterprise.

This program has close relationships with the IT industry through a program advisory board, and requires internships as a practical hands-on experience. The hands-on approach in the bachelor degree gives graduates a real-world look at their professional field.

### Communication Competency Requirements

| 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 1  | 3             |
| ENGL 250 or<br>ENGL 211 | English 2 or<br>Industrial and Career Writing              | 3            | ENG 102 or<br>BCOM 102 | English Composition 2 or<br>Advanced Business Technical<br>Communication | 3             |
| ENGL 311 or<br>ENGL 325 | Advanced Technical Writing or<br>Advanced Business Writing | 3            | No Equivalent          | No Equivalent  | No Equivalent |

### Quantitative Literacy Requirements

| FSU Course                 | FSU Course Title   | FSU Cr. Hrs. | MCC Equiv.   | MCC Course Title   | MCC Cr. Hrs. |
|----------------------------|--|--------------|--|--|--------------|
| MATH 114<br>or<br>MATH 115 | Quantitative Reasoning for<br>Professionals or<br>Intermediate Algebra | 4 or<br>3    | No Equivalent<br>or<br>MATH 100A<br>or<br>MATH 109<br>or<br>MATH 111 | No Equivalent<br>or<br>Intermediate Algebra<br>or<br>College Algebra with Applications<br>or<br>Algebra with Coordinate Geometry | 4            |

### Natural Sciences Competency Requirements – 1 course with lab

| FSU Course | FSU Course Title                                      | FSU Cr. Hrs. | MCC Equiv. | MCC Course Title | MCC Cr. Hrs. |
|------------|---|--------------|------------|------------------|--------------|
| Varies     | FSU General Education – Natural<br>Sciences electives | 6            | Varies     | Varies           | 6 - 7        |

### Self and Society Competency Requirements

| FSU Course | FSU Course Title   | FSU Cr. Hrs. | MCC Equiv. | MCC Course Title             | MCC Cr. Hrs. |
|------------|--|--------------|------------|------------------------------|--------------|
| ECON 221   | Principles of Economics 1  | 3            | ECON 101A  | Principles of Macroeconomics | 4            |
| ECON 222   | Principles of Economics 2  | 3            | ECON 102A  | Principles of Microeconomics | 4            |
| Varies     | FSU General Education – Self and<br>Society Elective – Non-Economics | 3            | Varies     | Varies                       | 3            |

### Culture Competency Requirements - Minimum 9 credits from two different disciplines with one course at 200 level or higher

| FSU Course | FSU Course Title                             | FSU Cr. Hrs. | MCC Equiv. | MCC Course Title | MCC Cr. Hrs. |
|------------|--|--------------|------------|------------------|--------------|
| Varies     | FSU General Education – Culture<br>electives | 9            | Varies     | Varies           | 9            |

### Additional General Education Requirements

| FSU Course | FSU Course Title              | FSU Cr. Hrs. | MCC Equiv. | MCC Course Title               | MCC Cr. Hrs. |
|------------|-------------------------------|--------------|------------|--------------------------------|--------------|
| ISYS 330   | Systems Analysis and Design 1 | 3            | CIS 250    | Developing Information Systems | 3            |

Refer to FSU's General Education Requirements at [Ferris State University General Education Program](#).

**Computer Information Systems** degree students must complete **43** General Education credits to meet College of Business and University Requirements and are encouraged to work with an advisor to select appropriate general education courses.

**Business Core Requirements**

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

**Major Requirements**

| FSU Course | FSU Course Title                                   | FSU Cr. Hrs. | MCC Equiv.    | MCC Course Title                   | MCC Cr. Hrs.  |
|------------|--|--------------|---------------|------------------------------------|---------------|
| ISYS 110   | Fundamentals of Programming Design and Logic       | 3            | CIS 185       | "C" Programming                    | 3             |
| ISYS 216   | Introduction Java Programming                      | 3            | CIS 162       | Visual C# Programming              | 3             |
| ISYS 221   | Mobile Application Development                     | 3            | No Equivalent | No Equivalent                      | No Equivalent |
| 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 Java Programming                          | 3            | CIS 280       | Java Programming                   | 3             |
| ISYS 327   | Operating Systems and Network Essentials           | 3            | No Equivalent | No Equivalent                      | No Equivalent |
| ISYS 372   | Advanced Database Systems                          | 3            | No Equivalent | No Equivalent                      | No Equivalent |
| ISYS 431   | Systems Analysis and Design 2                      | 3            | No Equivalent | No Equivalent                      | No Equivalent |
| ISYS 482   | Enterprise Integration and Business Process Design | 3            | No Equivalent | No Equivalent                      | No Equivalent |
| ISYS 489   | Senior Capstone                                    | 3            | No Equivalent | No Equivalent                      | No Equivalent |
| ISYS 491   | *Internship (Junior Status)                        | 3            | No Equivalent | No Equivalent                      | No Equivalent |
| PROJ 320   | Project Management                                 | 3            | No Equivalent | No Equivalent                      | No Equivalent |

**Directed Electives**

| FSU Course | FSU Course Title | FSU Cr. Hrs. | MCC Equiv. | MCC Course Title   | MCC Cr. Hrs. |
|------------|------------------|--------------|------------|--|--------------|
| ISYS 1 --  |                  |              | CIS 153A   | Database Management – Access   | 1            |
| ISYS 2 --  |                  |              | CIS 257A   | HTML for Internet Web Page Design  | 3            |
| Varies     | Varies           | 12           | Varies     | Approved MCC Directive Electives: BUS 220, CIS 104, CIS 105, CIS 109, CIS 121, CIS 124, CIS 131, CIS 143, CIS 153A, CIS 162, CIS 170, CIS 177DW, CIS 183, CIS 193A, CIS 198, CIS 199, CIS 201, CIS 202, CIS 203, CIS 209, CIS 210, CIS 243, CIS 244, CIS 257A, CIS 267PHP, CIS 270A, CIS 275, CIS 277, CIS 283A, CIS 284, and CIS 293A. (Note: This is only pre-approved Directive Electives, see your FSU faculty advisor to determine additional options.) | 9            |

|  |            |
|--|------------|
| <b>Total Credits Required for Degree</b> | <b>124</b> |
|--|------------|

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

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

**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.**

## Program Contact Information:

### Main Campus, Big Rapids

#### College of Business

(800) 433-7747 | (231) 591-2420 | [College of Business Email](#)

### Ferris Statewide – Muskegon

(231) 777-0510 | [Ferris Muskegon Email](#) | [Ferris Statewide Website](#)

[Transfer Partnerships Website](#)

## Delivery Locations

This degree and the Ferris courses are offered at the following locations:

- Ferris State University, Big Rapids Campus, Big Rapids, MI
- 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 Students SAT Scores

- 2.5 High School GPA (on a 4.0 scale)
- Two of the Three Criteria:
  1. SAT ERW score of 450 or higher.
  2. SAT Math score of 500 or higher. Placement in MATH 109/110 will be considered (SAT MATH score of 480 or higher).
  3. SAT Composite of 900 or higher.

### New Students ACT Scores

- 2.5 High School GPA (on a 4.0 scale)
- Two of the Three Criteria:
  1. ACT English score of 16 or higher.
  2. ACT Math score of 19 or higher.
  3. ACT Reading score of 19 or higher

## Transfer Students

- Combined college or university GPA of 2.5 (on a 4.0 scale) from all institutions attended. GPA is 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 114/115 or placement during the first semester at FSU which would require an ACT Math score of 19 or higher; SAT Math score of 500 or higher; or Accuplacer Math scores: Elementary Algebra score 75 or higher and College Level Math 0-49.

## 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.

**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 231/591-5983 or email your request to [transfercenter@ferris.edu](mailto:transfercenter@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 the Community 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: Effective May 15, 2019 – May 15, 2022**

This Agreement shall commence as of May 15, 2019 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**

Ferris State University  
1201 S. State Street  
Big Rapids, MI 49307  
Phone: (231) 591-2000

Muskegon Community College  
221 South Quarterline Road  
Muskegon, MI 49442-1493  
Phone: (231) 773-9131

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May 15, 2019

David M. Nicol  
Dean  
College of Business

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May 15, 2019

Kelley Conrad  
Vice President  
Academic Affairs

\_\_\_\_\_  
May 15, 2019

Lawrence Bajor  
Chair  
Accountancy, Finance & Information Systems Department

\_\_\_\_\_  
May 15, 2019

David Stradal  
Chair  
Business Department

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May 15, 2019

Char Parker  
Faculty  
Computer Information Systems