

Macomb Community College (MCC)

Articulation Agreement and Transfer Guide

The Industrial Technology & Management (ITM), B.A.S. degree is designed for persons involved in any one of a number of areas in manufacturing who may possess many manufacturing or business-related credits or an Associate degree, and who desire a Bachelor's degree. This degree program will assist persons who want to make a career change with their current employer or a career transition to a new employer. The ITM program is designed to assist persons who desire to work in production supervision, sales engineering, production planning, quality, engineering supervision, and project management among other positions. Employment experience in a manufacturing or industrial environment is highly recommended.

Communication Competency Course Requirements

FSU Course	FSU Course Title	FSU Cr. Hrs.	CC Equiv.	CC Course Title	CC Cr. Hrs.
COMM 121	Fundamentals of Public Speaking	3	SPCH 1060	Speech Communication	3
ENGL 150	English 1	3	ENGL 1180 or ENGL 1210	Communications 1 or Composition 1	3
ENGL 250 or ENGL 211	English 2 or Industrial and Career Writing	3	ENGL 1190 or ENGL 1220	Communications 2 or Composition 2	3
ENGL 311 or ENGL 321 or ENGL 325	Advanced Technical Writing or Advanced Composition or Advanced Business Writing	3	No Equivalent	No Equivalent	No Equivalent

Quantitative Literacy Course Requirements

FSU Course	FSU Course Title	FSU Cr. Hrs.	CC Equiv.	CC Course Title	CC Cr. Hrs.
MATH 126 or MATH 130	Algebra and Analytical or Trigonometry or Pre-Calculus	4	MATH (1415 + 1435) or MATH 1465	College Algebra & Trigonometry or Accelerated Precalculus	4

Natural Sciences Competency Course Requirements - 1 course with lab

FSU Course	FSU Course Title	FSU Cr. Hrs.	CC Equiv.	CC Course Title	CC Cr. Hrs.
Varies	Natural Sciences Elective	3	Varies	Varies	Varies
PHYS 211	Introduction to Physics 1	4	PHYS 1180	College Physics 1	4

Self and Society Competency Course Requirements – Minimum 9 credits from 2 different disciplines with 1 at 200 level or higher

FSU Course	FSU Course Title	FSU Cr. Hrs.	CC Equiv.	CC Course Title	CC Cr. Hrs.
Varies	FSU General Education – Self and Society Competency Electives	9	Varies	Varies	Varies

Culture Competency Course Requirements - Minimum 9 credits from 2 different disciplines with 1 at 200 level or higher

FSU Course	FSU Course Title	FSU Cr. Hrs.	CC Equiv.	CC Course Title	CC Cr. Hrs.
Varies	FSU General Education - Culture Electives	9	Varies	Varies	Varies

Ferris State University General Education Courses

Students are encouraged to work with an advisor to select appropriate general education courses

Major Requirements – 39 Credits Required

FSU Course	FSU Course Title	FSU Cr. Hrs.	CC Equiv.	CC Course Title	CC Cr. Hrs.
PROJ 320	Project Management Fundamentals	3	No Equivalent	No Equivalent	No Equivalent
MTKG 321	Introduction to Marketing	3	MKTG 1010	Principles of Marketing	3
MGMT 301	Applied Management	3	MGMT 1010	Principles of Management	3
MFGE 352	Design for Manufacturing	2	No Equivalent	No Equivalent	No Equivalent
APPS 350	Automation Technology and Management	3	No Equivalent	No Equivalent	No Equivalent
APPS 351	Production Flow and Plant Layout	3	No Equivalent	No Equivalent	No Equivalent
APPS 401	Contemporary Issues in Industrial Management	3	No Equivalent	No Equivalent	No Equivalent
COHP 330	OSHA Laws and Regulations	2	No Equivalent	No Equivalent	No Equivalent

See page 2 for remainder of Major Requirements

Major Requirements – 39 Credits Required (cont'd.)

FSU Course	FSU Course Title	FSU Cr. Hrs.	CC Equiv.	CC Course Title	CC Cr. Hrs.
MFGE 341	Quality Science Statistics	3	No Equivalent	No Equivalent	No Equivalent
MFGE 423	Engineering Economics	2	No Equivalent	No Equivalent	No Equivalent
MGMT 370	Quality Operations Management	3	No Equivalent	No Equivalent	No Equivalent
APPS 420	Manufacturing Certification and Standardization	3	No Equivalent	No Equivalent	No Equivalent
APPS 450	Manufacturing Improvement Management	3	No Equivalent	No Equivalent	No Equivalent
APPS 499	Sr. Project Capstone	3	No Equivalent	No Equivalent	No Equivalent

Related Requirements – 40 Credits Required; 41 at Macomb CC

FSU Course	FSU Course Title	FSU Cr. Hrs.	CC Equiv.	CC Course Title	CC Cr. Hrs.
Varies	Electives	40	Varies	Manufacturing or Business Related Electives (See FSU advisor)	40

Total Credits Required for Degree	120
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Program Contact Information:

Main Campus, Big Rapids
College of Engineering Technology
 (231) 591-2890

Ferris Statewide – FSU – Metro Detroit
 (586) 445-7150 | FerrisSE@ferris.edu | www.ferris.edu/statewide
www.ferris.edu/transfer

Delivery Locations

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

- Ferris-Grand Rapids @ Grand Rapids Community College, MI
- Ferris-Muskegon @ Muskegon Community College, MI
- Ferris-Warren @ Macomb Community College, MI
- Ferris-Auburn Hills @ Oakland Community College, MI
- Select courses delivered online and/or in a mixed delivery format (i.e. a mix of online and face-to-face instruction at the Community College, Ferris-Grand Rapids, Ferris-Auburn Hills, Ferris-Warren or at another off-campus location).

General Admission Criteria**New Students**

- 48 transferable credits or equivalent experience with permission of the Dean
- 2.5 overall GPA
- ENGL 150 and MATH 115
- Highly recommendable that applicants have a minimum of 5 years industrial/manufacturing experience.

Transfer Students

- 48 transferable credits or equivalent experience with permission of the Dean
- 2.5 overall GPA
- ENGL 150 and MATH 115
- Highly recommendable that applicants have a minimum of 5 years industrial/manufacturing experience.

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.

Online Learning

Select courses 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). The “Online Readiness Tutorial” is required for students who register for an online *course* or are completing an online *degree*. Students must demonstrate competency in Blackboard skills. This may be done by taking a tutorial and quiz, or, for students who have already taken and passed online courses, they can submit a waiver request. Students should check with the department that offers the class to determine its particular needs and/or the Ferris advisor regarding registration for online course work.

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.

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

This Articulation Agreement is in effect June 1, 2014, through June 1, 2020.

The original, signed document is 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.

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.