

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.	OCC Equiv.	OCC Course Title	OCC Cr. Hrs.
COMM 121	Fundamentals of Public Speaking	3	COM 1600	Fundamentals of Speech	3
ENGL 150	English 1	3	ENG 1510 or ENG 158	Composition 1 or Critical Reading & Thinking	3
ENGL 250 or ENGL 211	English 2 or Industrial and Career Writing	3	ENG 152 or ENG 1520	English 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.	OCC Equiv.	OCC Course Title	OCC Cr. Hrs.
MATH 126 or MATH 130	Algebra and Analytical or Trigonometry or Pre-Calculus	4	MAT (1540+1560) or MAT 1630	College Algebra & Trigonometry or College Algebra/ Trig	4

**Natural Sciences Competency Course Requirements - 1 course with lab**

FSU Course	FSU Course Title	FSU Cr. Hrs.	OCC Equiv.	OCC Course Title	OCC Cr. Hrs.
Varies	Natural Sciences Elective	3	Varies	Varies	Varies
PHYS 211	Introduction to Physics 1	4	PHY 1610	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.	OCC Equiv.	OCC Course Title	OCC 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.	OCC Equiv.	OCC Course Title	OCC 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.	OCC Equiv.	OCC Course Title	OCC Cr. Hrs.
PROJ 320	Project Management Fundamentals	3	No Equivalent	No Equivalent	No Equivalent
MTKG 321	Introduction to Marketing	3	MKT 2520	Fundamentals of Market Theory/ Practice	3
MGMT 301	Applied Management	3	BUS 2530	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
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

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

FSU Course	FSU Course Title	FSU Cr. Hrs.	OCC Equiv.	OCC Course Title	OCC Cr. Hrs.
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 Oakland CC**

FSU Course	FSU Course Title	FSU Cr. Hrs.	OCC Equiv.	OCC Course Title	OCC Cr. Hrs.
Varies	Electives	40	Varies	Manufacturing or Business Related Electives (See FSU advisor)	40
<b>Total Credits Required for Degree</b>					<b>120</b>

**Program Contact Information:**

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

**Ferris Statewide, Metro Detroit**  
 (586) 445-7150 | FerrisSE@ferris.edu | www.ferris.edu/statewide  
[www.ferris.edu/transfer](http://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****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.

**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.

**Ferris State University and Oakland Community College – Industrial Technology and Management - Transfer Guide**

Effective Summer 2018

*Ferris State University is an equal opportunity institution. For information on the University's Policy on Non-Discrimination, visit ferris.edu/non-discrimination.*