

The Bachelor of Applied Science in Industrial Technology and Management is designed to complement training in a technical area to obtain a management role in a manufacturing/related industry. Foundation classes provide a depth of knowledge applicable to technology fields with classes in automation, globalization, lean manufacturing, management, quality statistics, and industrial operations. Students typically have work experience in manufacturing which allows students to bring their own knowledge to the classroom for a unique perspective on solving manufacturing problems. Common job titles upon completion of this program include production supervisor, project leader, project manager, continuous improvement manager, lean specialist, team leader, quality engineer, etc. Additional career tracks one could expect from obtaining this degree may also be available in engineering, upper management, and sales.

**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-Public Speaking	3
ENGL 150	English 1	3	EN 101	English Composition 1	3
ENGL 211 or ENGL 250	Industrial and Career Writing or English 2	3	No Equivalent or EN 102	No Equivalent or English Composition 2	3
ENGL 311 or ENGL 321 or ENGL 325	Advanced Technical Writing or Advanced Composition 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 590 or Higher, Official Post-2016 Math SAT Score of 620 or Higher, or Official MATH ACT Score of 26 or Higher.

FSU Course	FSU Course Title	FSU Cr. Hrs.	GRCC Equiv.	GRCC Course Title	GRCC Cr. Hrs.
MATH 126 or MATH 130	Algebra & Analytical Trigonometry or Pre-Calculus	4	MA 110 + 108 or MA 131	College Algebra and Trigonometry or Pre-Calculus	5 - 7

**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.
PHYS 211	Introduction to Physics 1	4	PH 125	General Physics 1	4
Varies	Natural Sciences Elective	3	Varies	Varies	3

**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.
Varies	Self and Society Electives	9	Varies	Varies	9

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

**Major Requirements – 39 Credits Required**

FSU Course	FSU Course Title	FSU Cr. Hrs.	GRCC Equiv.	GRCC Course Title	GRCC Cr. Hrs.
MGMT 301	Applied Management	3	BA 283	Business Management	3
PROJ 320	Project Management Fundamentals	3	No Equivalent	No Equivalent	0
MTKG 321	Principles of Marketing	3	BA 270	Marketing	3
COHP 330	OSHA Laws	2	No Equivalent	No Equivalent	0
MFGE 341	Quality Science Statistics	3	No Equivalent	No Equivalent	0
APPS 350	Automation and Technology Management	3	No Equivalent	No Equivalent	0
APPS 351	Lean Thinking Production Flow and Plant	3	No Equivalent	No Equivalent	0
MFGE 352	Design for Manufacturing	2	No Equivalent	No Equivalent	0
MGMT 370	Quality & Operations Mgmt.	3	BA 175 and BA 278	Supply Chain Management and Transportation and Logistics	6
APPS 401	Contemporary Issues in Industrial Management.	3	No Equivalent	No Equivalent	0
APPS 420	Manufacturing Certification and Standardization	3	No Equivalent	No Equivalent	0
MFGE 423	Engineering Economics	2	No Equivalent	No Equivalent	0
APPS 450	Manufacturing Improvement Management.	3	No Equivalent	No Equivalent	0
APPS 499	Senior Project Capstone	3	No Equivalent	No Equivalent	0

**Manufacturing, Industrial, or Business-Related Requirements – 40 Credits Required**

FSU Course	FSU Course Title	FSU Cr. Hrs.	GRCC Equiv.	GRCC Course Title	GRCC Cr. Hrs.
Varies	Electives (See FSU Advisor)	40	Varies	Varies	40
<b>Total Credits Required for Degree</b>					<b>120 - 121</b>

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

**Program Delivery Locations and Contact Information:****Ferris Statewide – Warren**

(586) 445-7150 | [itmpprogram@ferris.edu](mailto:itmpprogram@ferris.edu) | [www.ferris.edu/statewide](http://www.ferris.edu/statewide)

**Ferris Statewide – Grand Rapids**

(616) 451-4777 | [fsugr@ferris.edu](mailto:fsugr@ferris.edu) | [www.ferris.edu/statewide](http://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](http://www.ferris.edu/catalog)

**Transfer Students**

- Combined college or university GPA of 2.50 (on a 4.00 scale) from all institutions attended.
- Minimum 48 transferable credit hours (C or higher) from an accredited college or university.
- Transfer equivalency or placement for FSU ENGL 150
- Transfer equivalency for FSU MATH 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.
- It is highly recommendable that applicants have a minimum of five years of industrial or manufacturing experience.

**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).