

The Manufacturing Engineering Technology at Ferris offers instruction and practical experience in all facets of manufacturing engineering. Graduates of the program determine how to make their company's products better, faster, safer, and less expensive than its competitors can. Study through hands on applied coursework/projects in quality control, manufacturing methods, industrial engineering, plant layout, automation, and uses of lean allows graduates to participate in the design of a total product manufacturing system. These abilities are always in demand, and the Manufacturing Engineering Technology program gives the student the skills necessary to enter into a professional position with an excellent salary. Although completion of a technical Associates degree is encouraged, it is not required for entry to the bachelor's degree.

Note: The Manufacturing Engineering technology degree has 2 options, each option has its own entry and graduation requirements.

1. Manufacturing Engineering Technology **without concentration** for those seeking to be Manufacturing/Process Engineers
2. Manufacturing Engineering Technology **with Quality concentration** for those seeking to be Quality Engineers

Course Requirements

Muskegon Community College			
MCC Course	FSU Equiv.	FSU Course Title	Cr.Hrs.
Prior to FSU Admission			
COM 201	COMM 121	Public Speaking	3
ENG 101	ENGL 150	English Composition I	3
or BCOM 101			
ENG 102	ENGL 250	English Composition II	3
or BCOM 102	ENGL 211		
MATH(111+112)	MATH 130	Pre-calculus	8
or MATH111+TMAT 201			
MET 201	MATL 240	Material Science	4
MT101A	MFGT 150	Basic Machining	4
CAD 250	PDET 122	Parametric Modeling (Solidworks or Pro-E or Catia)	3
AMT 129	ISYS 105	Intro Micro Systems-Software	3
or CIS110			
MCC	Varies	FSU Natural Science Elective	3
MCC	Varies	FSU Culture Elective	3
MCC	Varies	FSU Self & Society Elective	3
MCC	Varies	Technical credits	9
Other classes		As needed to achieve a total of 57 credit hours	
Prior to FSU Admission Sub-Total (minimum)			57
Program Classes- Scheduled to be taken during B.S.			
PHYS 201	PHYS 211	Introduction to Physics	4
MATH 161	MATH 220	Calculus	4
MCC	Varies	FSU Culture Elective (3 credits at FSU 200+ level)	6
MCC	Varies	FSU Self & Society Elective (3 credits at FSU 200+ level)	6
Program Classes Sub-Total			20
Total MCC Credits			77

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.

2/17/2017

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

Ferris State University		
Course	Course Title	Cr. Hrs.
MECH 340	Statics & Strengths	4
MFGE 311	Industrial Engineering	4
MFGE 312	CNC & CAM	4
MFGE 321	Metrology	3
MFGE 322	Production Processes	3
MFGE 324	Process Planning I	3
MFGE 326	Tolerance Design & Analysis	2
MFGE 341	Quality Science Statistics	3
MFGE 342	Statistical Process Engineering	3
MFGE 393	Internship	4
MFGE 411	Process Planning II	2
MFGE 421	Automation & System Design	4
MFGE 422	Manufacturing Facilities Planning	3
MFGE 423	Engineering Economics	2
MFGE 442	Design of Experiments	3
WELD 416	Welding Processes	2
PLTS 325	Plastics Processing	2
Total Ferris Credits		51

Credits Required for Degree **128**

Students are encouraged to work with their Ferris advisor as early as possible to ensure transferrability of credits, selection of FSU electives, understanding of Ferris general education, admittance, and graduation requirements.

Program Offered at:

Ferris Statewide, Grand Rapids (Part time nights)

(616) 451-4777 or (800) 998-3425

or ferrisgr@ferris.edu

www.ferris.edu/grandrapids

Main Campus, Big Rapids (Full time days)

College of Engineering Technology

Manufacturing Engineering Technology

(231) 591-2511

or manufacturingdegrees@ferris.edu

www.ferris.edu/technology/mfgt

www.ferris.edu/transfer

Muskegon Community College
Transfer Guide**General Admission Criteria**

- To be admitted to this degree program, either a completed associate degree or at least 57 transferable semester credit hours (“C” or better on 4.0 (scale) from an accredited college or university with a 2.5 overall GPA. We do not require the completion of an A.A.S. degree for entry.
- Included in the 57 semester hours “Prior to FSU Admission” courses are specific speech, English, math, science, general education, and technical courses detailed above. These typically can be completed within an A.A.S. degree at GRCC.
- Official transcripts from all accredited colleges and universities must be submitted with the Ferris application. If at the time of applying a student is transferring without the completion of an Associate’s degree or has less than 60 transferable credits, high school transcripts will also be required.

Transfer Students – Grand Rapids

- If applying to Grand Rapids the time to apply is best determined thru meeting with an advisor. The Grand Rapids campus admittance occurs year round, however, the Fall a student begins in dictates their graduation date.

Transfer Students – Big Rapids Main Campus

- It is recommended that students submit applications by December 1st prior for fall semester entry to the Big Rapids campus. Entry is on a first come first serve basis and the number of transfer slots available may be limited.

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.

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 the effective and/or revised date on the bottom of the guide.