

## Muskegon Community College

### Transfer Guide

The Manufacturing Engineering Technology program (with Quality Concentration) at Ferris offers instruction and practical experience in all facets of quality engineering. Graduates of the program determine how to interpret, monitor, and develop quality systems to ensure products meet customer expectations. Study through hands on applied coursework/projects in statistics, quality control, manufacturing methods, industrial engineering, design of experiments, and quality planning allows graduates to participate in the design of a Quality 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. This unique concentration was designed with representatives from industry and the American Society for Quality Control. 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.
<b>Prior to FSU Admission</b>			
COM 201	COMM 121	Public Speaking	3
ENG 101 or BCOM 101	ENGL 150	English Composition I	3
EN 102 or BCOM 102	ENGL 250	English Composition II	3
MATH(111+112) or MATH 111+TMAT 201	MATH 130	Pre-calculus	8
MET 201	MATL 240	Material Science	4
AMT 129 or CIS 110	ISYS 105	Intro Micro Systems-Software	3
MCC	Varies	FSU Natural Science Elective	3
MCC	Varies	FSU Culture Elective	3
MCC	Varies	FSU Self & Society Elective	3
MCC	Varies	Technical credit	9
Other classes	As needed to achieve a total of 57 credit hours		
<b>Prior to FSU Admission Sub-Total (minimum)</b>			<b>57</b>
<b>Program Classes- Scheduled to be taken during B.S.</b>			
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
<b>Total MCC Credits</b>			<b>77</b>

Ferris State University		
Course	Course Title	Cr. Hrs.
ENGL 311	Technical Writing	3
MATL 341	Statics & Strengths	4
MFGE 311	Industrial Engineering	4
MECH 340	Strength of Materials	4
MFGE 321	Metrology	3
MFGE 322	Production Processes	3
MFGE 341	Quality Science Statistics	3
MFGE 342	Statistical Process Engineering	3
MFGE 393	Internship	4
MFGE 423	Engineering Economics	2
MFGE 442	Design of Experiments	3
MFGE 443	Continuous Improvement	3
MFGE 444	Quality Auditing	3
MFGE 446	Design of Experiments	3
MFGE 447	Quality Planning	3
<b>Total Ferris Credits</b>		<b>48</b>

**Credits Required for Degree** **125**

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

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.

[www.ferris.edu/transfer](http://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.S.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 semester a student begins in dictates their graduation date.

**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.