

**FERRIS STATE UNIVERSITY/
COLLEGE OF ENGINEERING TECHNOLOGY**

Transfer Guide for

Montcalm Community College

Associate Degree Programs in Technical Areas

(ex: Manufacturing Engineering Technology, Integrated Manufacturing Technology, Industrial Technology,
Welding, Associate of Science)

Into B.S. Manufacturing Engineering Technology

Home Page	Contact	Phone
http://www.ferris.edu/cot/	Joe Wist Manufacturing Department College of Engineering Technology SWN 108 Big Rapids, MI 49307 E-Mail: wistj@ferris.edu	1-800-4-FERRIS or (231) 591-2511

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 Ferris to keep informed of changes (see "contact" above). Final responsibility for verifying all transfer information lies with the student.

CAREER PATH

Good manufacturing engineers can determine how to make their company's products better, faster, safer, and less expensive than competitors can. These abilities are always in demand, and the MFGE program at Ferris gives you the skills to command an excellent starting salary. You will also get to work with state of the art computers and equipment while you are taking classes, plus get more valuable team and project experience than almost anywhere else.

ADMISSION REQUIREMENTS FOR TRANSFER STUDENTS

1. Associate degree in a Manufacturing based Technology degree **or** 57 semester hours. Specific technical, math, English, communication, and science courses being required.
2. 2.50 GPA overall or department approval

For assistance with the admission process, contact your transfer counselor at the community college or the transfer admissions officer at Ferris State University, Shari Chamberlain, at 1-800-4-FERRIS, chambers@ferris.edu

APPLICATION DEADLINES

It is recommended that students submit applications by January 15th prior to fall entry.

TRANSFER GUIDE

- Coursework in MFGE Major – In addition to the courses completed for the Associate Degree listed above, there may be other courses that can be completed at your college or another accredited college/university prior to transfer to Ferris that will meet requirements for the B.S. major. NOTE: ***First, check with a Ferris Faculty Advisor for academic advising prior to completing these courses.***
- General Education Requirements – All students earning a B.S. degree at Ferris State University must complete the Ferris State University *General Education Requirements*. Some of these general education requirements may have been completed as part of your associate degree, while others may be completed in addition to the associate degree at your college or another accredited college/university prior to transfer to Ferris, and others can be completed after transferring to Ferris. ***We suggest you first check with a Ferris Faculty Advisor for academic advising prior to completing these courses.***
- Students must complete a minimum of 30 credit hours at Ferris to meet graduation requirements.

**FERRIS STATE UNIVERSITY/
COLLEGE OF ENGINEERING TECHNOLOGY**
Recommended courses to take in preparation for transfer into
Manufacturing Engineering Technology Degree

FSU Course	Montcalm Community College	FSU Course Title	Cr. Hrs.
Major Courses for AAS Degree	Associates Degree/Coursework in Technical Programs	AAS Degree courses in the major and related technical areas.	
COMM 121	COMM 210	Speech	3
ENGL 150	ENGL 100	Communications Competence: English I	3
ENGL 250	ENGL 101 or INDS 140	English 2 or Technical & Career Writing	3
MATH 130	MATH 120 + MATH 159	Quantitative Skills: Algebra & Analytical Geometry or Pre-Calculus	4
PHYS 211	PHYS 230	Introductory Physics	4
Science Elective	See note-->	*1 Scientific Understanding: Complete one lab science course from the following subject areas: Biology, Chemistry, Geography, Physics, Physical Science, etc.	3/4
Gen. Ed. Elective	See note-->	*2 Cultural Enrichment: Complete one course from the following subject areas: Art, History, Humanities, Literature, Music, Foreign Language, etc.	3
Gen. Ed. Elective	See note-->	*3 Social Awareness: Complete one course from the following subject areas: Anthropology, Economics, Political Science, Psychology, Sociology, etc.	3
Parametric Modeling Competency	TDSN 250 +TDSN 251		6
Computer Competency	CMIS 175 or CMIS (156+157+159)		4
Machining Competency	INDS 220 + INDS 221		6

*Contact the College of Engineering Technology educational counselor at Ferris State University if you have questions on specific transfer requirements. Email: wistj@feris.edu or call 231-591-2511.

REQUIRED DEGREE COURSE WORK				FSU Prerequisites
Course	Cr. Hrs.	FSU Course Title	Montcalm CC Equivalent	
Fall				
MFGE 311	4	Industrial Engineering		MATH (116 or 120)
MFGE 312	4	CNC & CAM		MFGT (110 +114) or equiv. Machining Competency
MFGE 341	3	Quality Science Statistics		MATH (116 or 120)
MATL 240	4	Intro to Material Science		
Elective	3	*2 or *3		MATH (116 or 120)
Spring				
MFGE 321	3	Metrology		MATH (116 or 120)
MFGE 322	3	Production Process		
MFGE 324	3	Tool Engineering		MFGE 311, 312 and (MFGE 321,326 co-reqs)
MFGE 326	2	Process Tolerance and Design Analysis		MATH (116 or 120)
MFGE 342	3	Statistical Process Engineering		MFGE 341
Elective	3	*2 or *3		
Summer				

MFGE 393	4	Internship		Dept. Approval
Fall				
MFGE 411	2	Principles of Process Planning		MFGE 322,324,342
MFGE 442	3	Design of Experiments 1		MFGE 321,341
MECH 340	4	Statics and Strengths of Materials		MATH (126 or 130) and PHYS 211
MATH 220	4	Analytical Geometry and Calculus	MATH 250	MATH (126 or 130)
WELD 416	2	Welding Processes		
Spring				
MFGE 421	4	Automation and Systems Design		MFGE 411
MFGE 422	3	Manufacturing Facilities Planning		MFGE 411
MFGE 423	2	Engineering Economics		MATH (116 or 120)
PLTS 325	2	Plastics Processes		
Elective	3	*2 or *3		
Elective	3	*2 or *3		

You may visit the Ferris Transfer Equivalency website at: <http://www.ferris.edu/admissions/transfer/webpages>