

**FERRIS STATE UNIVERSITY/COLLEGE OF TECHNOLOGY**  
 Transfer Guide for  
**SOUTHWESTERN MICHIGAN COLLEGE**  
 Associate Degree - Computer Aided Drafting *OR* Manufacturing Systems  
*OR* Welding Technology  
**Into Manufacturing Engineering Technology**

Home Page	Contact	Phone
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*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 60 semester hours of college course work including technical courses, general courses, and technical related courses)
2. 2.75 GPA in major courses, or faculty approval
3. MATH 130 required
4. 3 Credits of Social Science, 3 Credits of Humanities required

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](mailto:chambers@ferris.edu)

**APPLICATION DEADLINES**

It is recommended that students submit applications by January 15<sup>th</sup> 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 or the Department Chair (listed above) 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 or the Department Chair (listed above) 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 TECHNOLOGY

## Recommended courses to take in preparation for transfer into Manufacturing Engineering Technology Degree

FSU Course	Southwestern Michigan College	FSU Course Title	Cr. Hrs.
Major Courses for AAS Degree	Associates Degree in CAD, MFG Systems, Weld Tech	AAS Degree courses in the major and related technical areas.	
ENGL 150	ENG 103	<b>Communications Competence:</b> English I	3
ENGL 250	ENG 104	English 2	3
MATH 130	MATH 130	<b>Quantitative Skills:</b>	6
PHYS 211	PHYS 201	<b>*1 Scientific Understanding:</b> Complete one lab science course from the following subject areas: Biology, Chemistry, Geography, Physics, Physical Science, etc.	4
Gen. Ed. Elective		<b>*2 Cultural Enrichment:</b> Complete one course from the following subject areas: Art, History, Humanities, Literature, Music, Foreign Language, etc.	3
PSYC 150	PSYC 101	<b>*3 Social Awareness:</b> Complete one course from the following subject areas: Anthropology, Economics, Political Science, Psychology, Sociology, etc.	3
COMM 121	SPEE 101	Public Speaking	3

\*Contact the College of Technology educational counselor at Ferris State University if you have questions on specific transfer requirements. Email: [nelsonv@ferris.edu](mailto:nelsonv@ferris.edu), or call 231-591-2890.

REQUIRED DEGREE COURSE WORK				FSU Prerequisites
Course	Cr. Hrs.	FSU Course Title	Southwestern Equivalent	
<b>Fall</b>				
MFGE 311	4	Industrial Engineering		
MFGE 312	4	CNC & CAM (for students without experience)		
MFGE 313	2	Computer Applications for MFG Engineers		
MFGE 341	3	Quality Science Statistics		MATH 116
PDET 322	2	Model and Prototype Development		
MATH 216	4	Applied Calculus		
<b>Winter</b>				
MFGE 321	3	Metrology		
MFGE 322	3	Production Process		
MFGE 324	3	Tool Engineering		MFGE 313
MFGE 326	2	Process Tolerance and Design Analysis		MFGE 311 Or Dept. Approval
MFGE 342	3	Statistical Process Engineering		MFGE 341
ELECTIVE	3	<b>*1</b>	<b>*1</b>	
<b>Summer</b>				
MFGE 393	4	Internship		
<b>Fall</b>				
MFGE 411	2	Principles of Process Planning		By Permit Only
WELD 416	2	Welding Processes (may be taken in alternative sequence)		
MFGE 442	3	Design of Experiments 1		MFGE 341
MECH 340	4	Statics and Strengths of Materials		MATH 126 and PHYS 211
ELECTIVE	6	<b>*2 or *3</b>	<b>*2 or *3</b>	
<b>Winter</b>				
MFGE 421	4	Automation and Systems Design		MFGE 411
MFGE 422	3	Manufacturing Facilities Planning		MFGE 411
MFGE 423	2	Engineering Economics		MATH 126
PLTS 325	2	Plastics Processes (may be taken in alternative sequence)		
ELECTIVE	6	<b>*2 or *3</b>	<b>*2 or *3</b>	

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