

FERRIS STATE UNIVERSITY/COLLEGE OF TECHNOLOGY

Transfer Guide for

WASHTENAW COMMUNITY COLLEGE

Associate Degree - Computer Aided Drafting and Design
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. MTH 180 required
4. PHY 111 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

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 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.

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

| FSU Course | Washtenaw CC | FSU Course Title | Cr. Hrs. |
|------------------------------|--------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| Major Courses for AAS Degree | Associates Degree in CAD | AAS Degree courses in the major and related technical areas. | |
| ENGL 150 | ENG 111 | Communications Competence: English I | 3 |
| ENGL 250 | ENG 226 | English 2 | 3 |
| MATH 130 | MTH 180 | Quantitative Skills: | 6 |
| PHYS 211 | PHY 111 | *1 Scientific Understanding: Complete one lab science course from the following subject areas: Biology, Chemistry, Geography, Physics, Physical Science, etc. | 4 |
| Gen. Ed. Elective | | *2 Cultural Enrichment: Complete one course from the following subject areas: Art, History, Humanities, Literature, Music, Foreign Language, etc. | 3 |
| PSYC 150 | PSY 100 | *3 Social Awareness: Complete one course from the following subject areas: Anthropology, Economics, Political Science, Psychology, Sociology, etc. | 3 |
| COMM 121 | COM 101 | Fundamentals of 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, or call 231-591-2890.

| REQUIRED DEGREE COURSE WORK | | | | FSU Prerequisites |
|-----------------------------|----------|-----------------------------------------------------------|----------------------|----------------------------------|
| Course | Cr. Hrs. | FSU Course Title | Washtenaw Equivalent | |
| Fall | | | | |
| 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 | MTH 191 | |
| Winter | | | | |
| 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 | *1 | *1 | |
| Summer | | | | |
| MFGE 393 | 4 | Internship | | |
| Fall | | | | |
| 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 | *2 or *3 | *2 or *3 | |
| Winter | | | | |
| 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 | *2 or *3 | *2 or *3 | |

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