

## Moraine Valley Community College - IL

Transfer Guide

AET is an instructional program that prepares individuals to apply basic engineering principles and technical skills in support of engineers and other professionals engaged in developing, manufacturing and testing self-propelled ground vehicles and their systems. Includes instruction in vehicular systems technology, design and development testing, instrument calibration, test equipment operation and maintenance, and report preparation.

### Course requirements that can be completed at MVCC

MVCC Course	Ferris Equivalency	MVCC Course Title	MVCC Credit Hours
AUT 114	AUTO 113	Automotive Electricity/Electronics	4
AUT 121	AUTO 112	Automotive Brake Systems	4
AUT 125 & 232	AUTO 117	Electronic Fuel Management	4
AUT 214	AUTO 213	Chassis Electrical/Electronics	4
AUT 234	AUTO 115	Suspension, Steering, Alignment Services	4
AUT 236	AUTO 114	Automotive Engines	4
AUT 237	AUTO 291	Cooperative Work Experience	3
AUT 240	AUTO 111	Manual Transmissions & Drivelines	4
COM 101	ENGL 150	English 1	3
COM 102	ENGL 250	English 2	3
COM 103	COMM 121	Fundamentals of Public Speaking	3
<b>Additional Courses to take at MVCC</b>			
PHY 150	PHYS 211	Introductory Physics 1	4
MTH 101	MATH 115	Intermediate Algebra	3
MTH 141 & 142	MATH 126	Algebra & Analytical Trigonometry	4
CHM 131	CHEM 121	General Chemistry 1	4
		FSU General Education – Culture Electives	6
		FSU General Education – Self and Society Electives (At least one Self and Society class must be at the 200 level or above)	6
ECO 101	ECON 221	Principles of Macroeconomics	3
		At least one class or a combination of classes must meet the required designations of FSU General Education - Diversity	
<b>Total MVCC Credits</b>			<b>70</b>

**FSU General Education Requirements** can be found at: [Ferris General Education Requirements](#). Students are encouraged to work with an advisor to select appropriate general education courses.

### Course requirements that will need to be completed at Ferris State University

Ferris Course	Ferris Course Title	Ferris Credit Hours
AUTO 310	Engine Air Flow Analysis	3
AUTO 320	Dynamometer Analysis	3
AUTO 450	Automotive Fuels & Lubes	3
AUTO 460	Emission Systems	3
AUTO 480	Alternate Fuel & Vehicle Systems	3
AUTO 493	Internship	4
ENGL 311	Advanced Technical Writing	3
MATL 240	Intro to Material Science	4
MATL 341	Material Science Metals	3
MECH 212	Kinematics & Mechanisms	2
MFGE 321	Metrology	3
MFGE 341	Quality Science Statistics	3
MFGE 342	Statistical Process MFGE	3
MFGE 442	Design of Experiments	3
MATH 216	Applied Calculus	4
PDET 322	Model & Prototype Development	2
PDET 413	Fluids/Thermodynamics	3
PDET 415	Advanced Solid Modeling	2
SURE 331	Ethics-Prof in Engineering Technology	3
<b>Total Ferris Credits</b>		<b>57</b>
<b>Total Credits Required for Degree</b>		<b>124</b>

## Program Contact Information:

### Main Campus, Big Rapids

College of Engineering Technology

School of Automotive & Heavy Equipment Technology

auto@ferris.edu

www.ferris.edu/transfer

## General Admission Criteria

### New Students

- High school graduate with 2.7 GPA or higher (on a 4.0 scale).
- Minimum ACT score of 18, SAT 16 Comp or 950
- ACT MATH 19 or SAT 16 MATH 500

### Transfer Students

- 2.5 College GPA Overall
- MATH 116 Placement
- ENGL 150 Placement

## 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. Students are encouraged to work with their Ferris Advisor for selection of any electives, to ensure transferability and to minimize credits taken.

## Transfer Student Orientation

All new students to Ferris State University are required to complete an orientation.

## Online Learning

Select courses are 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, submitting 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.

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