

FERRIS STATE UNIVERSITY

AUTOMOTIVE ENGINEERING TECHNOLOGY TRANSFER GUIDE FOR NORTHERN VIRGINIA COMMUNITY COLLEGE (VA)

Ferris Program: Automotive Engineering Technology

Degree Type: Bachelor of Science

Ferris College: College of Engineering Technology

Transfer School: Northern Virginia Community College (VA) (NVCC)

Consortium Eligible: No

Total Credits Required: 131-132

Catalog Year: 2025-2026

GENERAL EDUCATION REQUIREMENTS – 50-51 Credits Required

Students are encouraged to work with an advisor to select appropriate general education courses. Diversity Competency - 2 Courses Required. If not met by courses taken for Culture, Self and Society, or MTA, a student must meet the following: 1 course with the Global Diversity attribute and 1 course with the U.S. Diversity attribute.

Visit the Ferris State [general education page](#) for more information.

Communication Competency

Ferris Course	Ferris Course Title	Ferris Credit Hours	Transfer Course
COMM 221	Small Group Decision Making	3	CST 115
ENGL 150	English 1	3	ENG 111
ENGL 250	English 2	3	ENG 112
ENGL 311	Advanced Technical Writing	3	ENG 205

Quantitative Literacy Competency

Requirements for Quantitative Literary Competency can be met with the following:

- Official Pre-2016 Math SAT Score of 590 or Higher
- Official Post-2016 Math SAT Score of 620 or Higher
- Official Math ACT Score of 26 or Higher

Ferris Course	Ferris Course Title	Ferris Credit Hours	Transfer Course
MATH 116	Intermediate Algebra and Numerical Trigonometry	4	No Equivalent

Natural Sciences Competency

Two courses are required with a minimum of 6 credits: must have at least one lab course.

Ferris Course	Ferris Course Title	Ferris Credit Hours	Transfer Course
CHEM 114	Introduction to General Chemistry	4	CHM 111 and CHM 112

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Ferris Course	Ferris Course Title	Ferris Credit Hours	Transfer Course
PHYS 211	Introductory Physics 1	4	PHY 201

Culture Competency

Three courses are required with a minimum of 9 credits: must be from two different disciplines and have at least one at FSU 200 level or higher course.

Ferris Course	Ferris Course Title	Ferris Credit Hours	Transfer Course
SURE 331	Ethics and Professionalism in Engineering and Technology	3	No Equivalent
Varies	Culture Electives	6	Varies

Self and Society Competency

Three courses are required with a minimum of 9 credits: must be from two different disciplines and have at least one at FSU 200 level or higher course, and at least one Self and Society Foundation course.

Ferris Course	Ferris Course Title	Ferris Credit Hours	Transfer Course
Varies	Self and Society Electives	9	Varies

Additional General Education Requirements

8 Credits Required.

Ferris Course	Ferris Course Title	Ferris Credit Hours	Transfer Course
MATH 126	Algebra and Analytic Trigonometry	4	No Equivalent
MATH 216	Applied Calculus	4	No Equivalent

COLLEGE REQUIREMENTS – 81 Credits Required

Major Courses

53 Credits Required.

Ferris Course	Ferris Course Title	Ferris Credit Hours	Transfer Course
AUTO 111	Manual Transmission and Drivelines	4	AUT 141
AUTO 112	Automotive Brake Systems	4	AUT 265

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Ferris Course	Ferris Course Title	Ferris Credit Hours	Transfer Course
AUTO 113	Automotive Electricity and Electronics	4	AUT 241
AUTO 114	Automotive Engines	4	AUT 111
AUTO 115	Suspension, Steering, and Alignment Services	4	AUT 266
AUTO 117	Electronic Fuel Management Systems	4	AUT 121
AUTO 200	Service Area 1	6	No Equivalent
AUTO 213	Chassis Electrical and Electronics	4	AUT 242 or AUT 245
AUTO 310	Engine Air Flow Analysis	3	No Equivalent
AUTO 320	Dynamometer Testing	3	No Equivalent
AUTO 450	Automotive Fuels and Lubes	3	No Equivalent
AUTO 460	Emissions Systems	3	No Equivalent
AUTO 480	Alternative Fuel and Vehicle Systems	3	No Equivalent
AUTO 493	Internship	4	No Equivalent

Additional Requirements

28 Credits Required.

Ferris Course	Ferris Course Title	Ferris Credit Hours	Transfer Course
PDET 125	Parametric Modeling	2	No Equivalent
MECH 212	Kinematics of Mechanisms	2	No Equivalent
MATL 240	Introduction to Material Science	4	No Equivalent
MFGE 321	Metrology	3	No Equivalent
PDET 325	Advanced Parametric Modeling	2	No Equivalent
MATL 341	Material Selection Metals	3	No Equivalent
MFGE 341	Quality Science Statistics	3	No Equivalent
MFGE 342	Statistical Process Engineering	3	No Equivalent
PDET 413	Applied Fluids and Thermodynamics	3	No Equivalent

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Ferris Course	Ferris Course Title	Ferris Credit Hours	Transfer Course
MFGE 442	Design of Experiments 1	3	No Equivalent

PROGRAM CONTACT INFORMATION

College of Engineering Technology
Automotive Management Program
(231) 591-2810
AMGT@Ferris.edu

ADMISSION REQUIREMENTS

New Student Admission Requirements

- The Automotive Management (2+2) degree is only open to students who meet the Transfer Student Admission Requirements below.
- High school students interested in this program apply to the Automotive Management (0 to 4) program.

Transfer Student Admission Requirements

- Combined college or university GPA of 2.30 (on a 4.00 scale) from all institutions attended.
- Students must have previously earned an associate degree in automotive, auto body, heavy equipment, or related field.
- Graduates of manufacturer or dealership co-op programs also qualify for admission into this program.
- Placement into MATH 115 or higher
- Placement into ENGL 150 or higher

MORE INFORMATION

To fulfill the residency requirement for a bachelor's degree a student must earn a minimum of 30 credits from Ferris State University.

Steps to Apply

- Complete your [free application](#).
- Submit official transcripts
 - Submit official transcripts from every school attended to Transfer@Ferris.edu
 - Or mail to:
Ferris State University Admissions Office
1201 S. State St., CSS 201
Big Rapids, MI 49307
- Submit test scores (if required)
 - ACT Scores; go to the [ACT website](#) - Ferris State University School Code: 1994
 - SAT, CLEP and AP Scores; go to the [College Board website](#) - Ferris State University School Code: 1222

Advising Notes

It is recommended that potential applicants meet with an advisor to review the degree, course schedule, transfer policies and have any questions answered prior to completing an application. Ferris accepts transfer courses in which the student earned a letter grade of "C" or better. Additional policies such as the Ferris Sunset and Residency Requirement should be discussed with a Ferris advisor. 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 coursework may reduce the chance of completing a course that will not apply toward the selected degree. Students must work with their Ferris advisor to declare a Minor or Concentration and for the selection of Directed Electives.

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Once admitted, students are required to complete an orientation and should continue to meet with an advisor as they work toward graduation.

To schedule an appointment or for additional transfer resources and policies see our [Transfer Resource page](#).

*Indicates an approved Ferris course substitution

Reverse Transfer Agreement

Ferris has reverse transfer agreements with several Michigan Community Colleges. Under such agreement, Ferris will provide your official University transcript to a partner school you have attended, so that they may grant you an associate or bachelor's degree upon completion of sufficient and appropriate credit hours from both institutions. In turn, the degree-granting institution will provide Ferris with an updated transcript reflecting the newly earned credential.

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.

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.

Transfer Equivalencies Tools

The transfer equivalencies link is located in the Transfer Resources section at transfer.ferris.edu.

Disclaimer

Transfer guides are not intended to be a contract with Ferris. The information in this guide is subject to change and is aligned with the catalog year listed above. Students should contact their community college and/or Ferris to keep informed of changes. Students' final responsibility for verifying all transfer information lies with the student. Please refer to the [Ferris catalog](#) for the most current curriculum.

Partners may contact the Office of Transfer and Secondary School Partnerships with questions or updates at TransferGuidesArticulations@Ferris.edu.