Ferris State University

Automotive Engineering Technology

Bachelor of Science Degree

College of DuPage (COD)

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.

FSU Course	FSU Course Title	FSU Cr. Hrs.	COD Equiv.	COD Course Title	COD Cr. Hrs
COMM 221 / COMM 121	Small Group Decision Making	3	SPEEC 1100	Fundamentals of Speech Communication (will substitute for COMM 221)	3
ENGL 150	English 1	3	ENGLI1101	English Composition 1	3
ENGL 250	English 2	3	ENGLI 1102	English Composition 2	3
ENGL 311	Advanced Technical Writing	3	No Equivalent	No Equivalent	No Equivalen
Quantitative Li	teracy Course Requirements				
FSU Course	FSU Course Title	FSU Cr. Hrs.	COD Equiv.	COD Course Title	COD Cr. Hrs
MATH 116	Intermediate Algebra	3	MATH 1115	Technical Mathematics 1	3
Natural Scienc	es Competency Course Requirem	ents – minimun	n 6 credits requir	ed – one course must have a lab	
FSU Course	FSU Course Title	FSU Cr. Hrs.		COD Course Title	COD Cr. Hrs
CHEM 114	Introduction to General Chemistry	4	CHEMI 1211	Intro to General Chemistry	4
PHYS 211	Introductory Physics 1	4	PHYSI 1201	General Physics 1	4
Self and Societ	ty Competency Course Requirem	ents – 9 credits	required - course	es must come from 2 different di	sciplines
FSU Course	FSU Course Title	FSU Cr. Hrs.	COD Equiv.	COD Course Title	COD Cr. Hrs
Varies	FSU General Education – Self & Society Electives	9	Varies	Varies	9
Culture Compe	etency Course Requirements – 9 c	redits required	– courses must (come from 2 different disciplines	
FSU Course	FSU Course Title	FSU Cr. Hrs.	COD Equiv.	COD Course Title	COD Cr. Hrs
Varies	FSU General Education – Culture Electives	6	Varies	Varies	6
SURE 331	Ethics-Prof In Engineering Technology	3	No Equivalent	No Equivalent	No Equivalen
Additional Gen	eral Education Course Requirem	ents			
FSU Course	FSU Course Title	FSU Cr. Hrs.	COD Equiv.	COD Course Title	COD Cr. Hrs
MATH 126	Algebra & Analytical Trig	4	No Equivalent	No Equivalent	No Equivalen
MATH 216	Applied Calculus	4	No Equivalent	No Equivalent	No Equivalen
Ferris State Un	iversity General Education Cours	es Students are	encouraged to we	ork with an advisor to select approx	oriate general
education cours			5		J
	nents – 53 Credits Required				
FSU Course	FSU Course Title	FSU Cr. Hrs.	COD Equiv.	COD Course Title	COD Cr. Hrs
AUTO 111 +	Manual Transmission and Drive		AUTO 1120 +	Manual Drivetrain & Axles +	
AUTO 211	Lines + Automatic Transmission		AUTO 2120 +	Auto Transmission +	
AUTO 112	Automotive Ducks Overlag		AUTO 2220	Advanced Auto Drivetrains	0
ATTEL 1 1 1 7 7	Automotive Brake Systems	4	AUTO 1240	Braking Systems	3

AUTO 112	Automotive Brake Systems	4	AUTO 1240	Braking Systems	3
AUTO 113	Automotive Electricity/Electronics	4	AUTO 1131 +	Automotive Basic Electricity +	
			AUTO 1232	Auto Engine Electricity	
AUTO 114	Automotive Engines	4	AUTO 1110	Engine Design & Operation	3
AUTO 115	Suspension, Steering, Alignment	1	AUTO 1140 +	Suspension/Steer/Alignment +	
	Services	4	AUTO 2140	Advanced Chassis Systems	
AUTO 117	Electronic Fuel Management	4	AUTO 1261 +	Engine Controls / Emissions 1 +	
	Systems	4	AUTO 2162	Engine Controls / Emissions 2	
AUTO 200	Service Area	6	AUTO 2280	Automotive Service	6
AUTO 211	Automatic Transmission	4	AUTO 1120 +	Manual Drive Train / Axles +	4 +
			AUTO 2120	Auto Transmission	4
AUTO 213	Chassis Electrical/Electronics	4	AUTO 2133	Automotive Body Electricity	3
AUTO 214	Auto AC & Heating	4	AUTO 1250	Auto Air Conditioning / Heating	4

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Effective Summer 2020

Ferris State University is an equal opportunity institution. For information on the University's Policy on Non-Discrimination, visit ferris.edu/non-discrimination. Page 1

Major Require					
FSU Course	FSU Course Title	FSU Cr. Hrs.	COD Equiv.	COD Course Title	COD Cr. Hrs.
AUTO 310	Engine Air Flow Analysis	3	No Equivalent	No Equivalent	No Equivalent
AUTO 320	Dynamometer Analysis	3	No Equivalent	No Equivalent	No Equivalent
AUTO 450	Automotive Fuels and Lubes	3	No Equivalent	No Equivalent	No Equivalent
AUTO 460	Emission Systems	3	No Equivalent	No Equivalent	No Equivalent
AUTO 480	Alternate Fuel and Vehicle System	3	No Equivalent	No Equivalent	No Equivalent
AUTO 493	Internship	4	No Equivalent	No Equivalent	No Equivalent
Additional Req	uirements – 28 Credits Required FSU Course Title	FSU Cr. Hrs.	COD Equiv.	COD Course Title	COD Cr. Hrs.
MECH 212	Kinematics and Mechanisms	2			
MATL 240	Intro to Material Science	4	NI = · · · ·		
		4	No Equivalent	No Equivalent	No Equivalent
MFGE 321	Metrology	3	No Equivalent No Equivalent	No Equivalent No Equivalent	
MFGE 321 PDET 322			1		No Equivalent No Equivalent No Equivalent No Equivalent
	Metrology Model and Prototype	3	No Equivalent	No Equivalent	No Equivalent
PDET 322	Metrology Model and Prototype Development	3 2	No Equivalent No Equivalent	No Equivalent No Equivalent	No Equivalent No Equivalent
PDET 322 MATL 341	Metrology Model and Prototype Development Material Science Metals	3 2 3	No Equivalent No Equivalent No Equivalent	No Equivalent No Equivalent No Equivalent	No Equivalent No Equivalent No Equivalent No Equivalent
PDET 322 MATL 341 MFGE 341	Metrology Model and Prototype Development Material Science Metals Quality Science Statistics	3 2 3 3	No Equivalent No Equivalent No Equivalent No Equivalent	No Equivalent No Equivalent No Equivalent No Equivalent	No Equivalent No Equivalent No Equivalent
PDET 322 MATL 341 MFGE 341 MFGE 342	Metrology Model and Prototype Development Material Science Metals Quality Science Statistics Statistical Process	3 2 3 3 3 3	No Equivalent No Equivalent No Equivalent No Equivalent No Equivalent	No Equivalent No Equivalent No Equivalent No Equivalent No Equivalent	No Equivalen No Equivalen No Equivalen No Equivalen No Equivalen

No Equivalent

No Equivalent

Total Credits Required for Degree

131

No Equivalent

Program Delivery Locations and Contact Information:

Main Campus, Big Rapids

College of Engineering Technology (800) 433-7747 | (231) 591-2890 | FSU Automotive Email Transfer Partnerships Website

Design of Experiments 1

Select courses may be 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).

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General Admission Criteria Transfer Students

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

Advising Notes

MFGE 442

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.

Transfer Student Orientation

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

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.