

**FERRIS STATE UNIVERSITY  
COLLEGE OF ENGINEERING TECHNOLOGY**

Transfer Guide for  
**GATEWAY TECHNICAL COLLEGE**  
**Into Automotive Engineering Technology**

Home Page	Contact	Phone
<a href="http://www.ferris.edu/cot/">http://www.ferris.edu/cot/</a>	Greg Key, Program Coordinator School of Automotive & Heavy Equipment College of Engineering Technology AUT-101 Big Rapids MI 49307 E-Mail: keyg@ferris.edu	1-800-4-FERRIS or (231) 591-2655

*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.*

**ADMISSION REQUIREMENTS FOR TRANSFER STUDENTS**

1. 2.5 GPA
2. 2.75 GPA in major.
3. Math Placement: Pre-Calculus

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.

**GENERAL EDUCATION REQUIREMENTS**

*1 <b>Scientific Understanding:</b> Complete one lab science course from the following subject areas: Biology, Chemistry, Geography, Physics, Physical Science, etc.
*2 <b>Cultural Enrichment:</b> Complete one course from the following subject areas: Art, History, Humanities, Literature, Music, Foreign Language, etc.
*3 <b>Social Awareness:</b> Complete one course from the following subject areas: Anthropology, Economics, Political Science, Psychology, Sociology, etc.

For further information regarding general education requirements, please see the link below.

<http://www.ferris.edu/htmls/academics/gened/courses.html>

**FERRIS STATE UNIVERSITY**  
**COLLEGE OF ENGINEERING TECHNOLOGY**  
 Recommended courses to take in preparation for transfer into  
**Automotive Engineering Technology Degree**

REQUIRED DEGREE COURSE WORK				FSU Prerequisites
Term / Course	Credit Hours	FSU Course Title	Community College Equivalent	
<b>Year 1-Fall</b>				
AUTO 111	4	Manual Transmissions & Drivelines		
AUTO 112	4	Automotive Brake Systems	<b>602-189</b>	
AUTO 113	4	Automotive Electricity/Electronics	<b>602-142</b>	
ENGL 150	3	English 1	<b>801-138</b>	
FSUS 100	1	FSU Seminar		
<b>Year 1-Spring</b>				
AUTO 114	4	Automotive Engines	<b>602-152 &amp; 602-177</b>	
AUTO 115	4	Suspension, Steering, Alignment Services	<b>602-146 &amp; 602-172</b>	
AUTO 117	4	Electronic Fuel Management Systems	<b>602-159 &amp; 602-174</b>	AUTO 113
MATH 116	4	Intermediate Algebra/Numerical Trig.	<b>804-113 &amp; 804-114 or 804-161</b>	ACT 19 or MATH 110
<b>Year 2-Fall</b>				
AUTO 213	4	Chasis Electrical/Electronics	<b>602-156 &amp; 154-117</b>	AUTO 113
MATL 240	4	Intro to Material Science		MATH 116
ENGL 250	3	English 2		ENGL 150
CHEM 114	4	Introduction to General Chemistry		
<b>Year 2-Spring</b>				
AUTO 200	6	Service Area	<b>602-188 &amp; 602-190</b>	C- in AUTO 111, 112, 113, 114, 115, 117
PHYS 211	4	Introductory Physics 1	<b>806-143</b>	C- in Math 116
Elective	3	Cultural Enrichment	<b>*2</b>	
Elective	3	Social Awareness Elective	<b>*3</b>	
<b>Year 3- Fall</b>				
AUTO 310	3	Engine Air Flow Analysis		AUTO 114, 117 MATH 116
MATL 341	3	Material Science Metals		MATL 240
MFGE 341	3	Quality Science Statistics		MATH 116
MATH 126	4	Algebra & Analytical Trig.	<b>804-116</b>	MATH 116
ENGL 311	3	Advanced Technical Writing		ENGL 250
<b>Year 3-Spring</b>				
AUTO 320	3	Dynamometer Analysis		AUTO 114, 117, 310 MATH 116
MFGE 342	3	Statistical Process		MFGE 341 MATH 116
COMM 221	3	Small Group Decision Making		
MATH 216	4	Applied Calculus	<b>804-198</b>	C- in MATH 126 or 130
Elective	3	Cultural Enrichment Elective	<b>*2</b>	
<b>Year 4-Fall</b>				
AUTO 450	3	Automotive Fuels & Lubes		Senior Status CHEM 114, MATH 126
MFGE 442	3	Design of Experiments I		MFGE 341, MATH 116
PDET 322	2	Model & Prototype Development		
PDET 413	3	Fluids/Thermodynamics		MATH 116
Elective	3	Cultural Enrichment (200 level or above)	<b>*2</b>	
Elective	3	Social Awareness	<b>*3</b>	
<b>Year 4-Spring</b>				
AUTO 460	3	Emission Systems		Senior Status CHEM 114, MATH 126
AUTO 480	3	Alternate Fuel and Vehicle System		Senior Status CHEM 114, MATH 126

MECH 212	2	Kinematics & Mechanisms		MATH 216, PHYS 211
MFGE 321	3	Metrology		
PDET 415	2	Advanced Solid Modeling CAD		PDET 322
Elective	3	Social Awareness (200 level or above)	<b>*3</b>	
<b>Year 4-Summer</b>				
AUTO 493	4	Internship		

\*Contact the College of Engineering 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.