



Engineering/Manufacturing & Industrial Technology Pathway



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Automotive Service Technology, Toyota Technical Education Network, Ford Maintenance and Light Repair Associate in Applied Science

Designed for the student preparing for a career in the automotive field. Classroom activities provide students an opportunity to learn theory and test-taking skills to successfully pass the Michigan and/or ASE certification examinations. Shop activities provide students an opportunity to become proficient in the testing, diagnosing and servicing the various systems of the automobile. All eight areas of an automotive certification are thoroughly covered and when combined with general and related courses lead to an Associate of Applied Science degree. This provides the background for employment and advancement in various automotive related occupations such as service technician, service writer, service manager, proving grounds testing technician, shop owner, parts specialist, automotive machinist, alternate fuel vehicle technician, technical sales and motor sports.

Our Toyota corporate sponsored connection is called T-Ten. As part of the Toyota Technical Education Network, students have the option to enter into the Toyota T-TEN program. This prepares students to work as a technician in a Toyota dealership. These students take the same automotive classes as other students with some important differences. Toyota provides T-TEN students with: Toyota work uniforms, Toyota training materials, Toyota vehicles and special tools to work with in the shop, assistance in finding a sponsoring Toyota dealership to do paid co-ops, Toyota course exit exams and Toyota certification upon successful completion of the program.

Our Ford corporate sponsored connection is called MLR. As part of the Ford Maintenance and Light Repair network, students have the option to enter into the Ford MLR program. This prepares students to work as a technician in Ford, Lincoln, or Mercury dealerships. These students take the same automotive classes as other students with some important differences. Ford MLR students concentrate on electrical systems, climate control, brakes, and suspension and steering. They utilize Ford training materials including service manuals, electrical/vacuum troubleshooting manuals, technical service bulletins, use Ford approved tools and equipment, work on Ford automobiles/light trucks, and upon successful completion of the course and the Ford Multimedia Training exit exam are Ford certified with Service Technician Specialty Training credentials. With these credentials students will receive assistance in obtaining Ford, Lincoln, or Mercury dealership placement to work in the areas of certification.

Contact Program Staff, Les Coxon at 517-796-8541 or Dan Livingston at 517-796-8540.

Minimum credits: 63

Minimum cumulative GPA: 2.0

Minimum JCC credits: 12

MACRAO agreement: No

GENERAL EDUCATION REQUIREMENTS (17 credits)

ENGLISH (3 credits)

ENG 131 Writing Experience3

MATHEMATICS (3 credits)

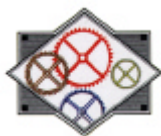
Choose any one of the following:

MTH 110 Pre-Algebra3
MTH 112 Business Math3
MTH 120 Beginning Algebra4
MTH 131 Intermediate Algebra4
MTH 133 Introduction to Probability & Statistics3
MTH 140 Pre-calculus5
MTH 151 Calculus I4

SCIENCE (4 credits)

Choose one of the following:

BIO 131 General Biology4
BIO 132 Human Biology4
BIO 151 General Botany4
BIO 152 General Zoology4
BIO 155 Human Anatomy5
CEM 121 Chemistry of Life4
CEM 131 General Chemistry4
CEM 132 Organic and Biological Chemistry4
CEM 151 General Inorganic Chemistry4
CEM 152 General Inorganic Chemistry with Analysis . .4
GEL 160 Introduction to Geology4
NSC 131 Contemporary Science4
PHY 131 Our Physical World4
PHY 151 Astronomy4
PHY 231 College Physics I4
PHY 251 Modern University Physics II5



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SOCIAL SCIENCE (3 credits)

Choose one of the following:

ANT 131	Introduction to Anthropology	.3
CRJ 101	Criminal Law	.3
CRJ 104	Criminal Justice Psychology	.3
CRJ 111	Introduction to Criminal Justice	.3
CRJ 120	Human Relations for Corrections	.3
CRJ 127	Corrections Law	.3
ECN 231	Macroeconomics	.3
ECN 232	Microeconomics	.3
GEO 131	Physical Geography	.3
HIS 120	Ancient History	.3
HIS 131	Western Civilization to 1555	.4
HIS 132	Western Civilization 1955 to Present	.4
HIS 231	Development of the US through the Civil War	.3
HIS 232	Development of the US from the Civil War	.3
PLS 141	American National Government	.3
PSY 140	Introduction to Psychology	.4
PSY 152	Social Psychology	.3
PSY 251	Abnormal Psychology	.3
PSY 252	Developmental Psychology	.3
SOC 152	Social Psychology	.3
SOC 231	Principles of Sociology	.3
SOC 236*	Women in a Changing Society	.3

HUMANITIES (3 credits)

Choose one of the following:

ART 111	Art History: Prehistoric - 1400	.3
ART 112	Art History: Renaissance - Present	.3
ENG 210	Introduction to Film	.3
ENG 236*	Women in a Changing Society	.3
ENG 246	Short Story & Novel	.3
ENG 247	Poetry and Drama	.3
ENG 249	African-American Literature	.3
ENG 254	Children's Literature	.3
ENG 255	American Literature 19th Century	.3
ENG 256	American Literature 20th Century	.3
ENG 257	World Literature I	.3
HUM 131	Cultural Connections	.3
MUS 130	Survey of Non-Western Music	.3
MUS 131	Understanding Music	.3
MUS 133	Music Education	.3
MUS 151	Music Theory I	.4
MUS 152	Music Theory II	.4
PHL 231	Intro to Philosophy	.3
PHL 232	Logic	.3
THR 116	Introduction to Theatre	.3

*Cannot be double-counted; prefix chosen at registration cannot be changed.

HEALTH/PHYSICAL FITNESS (1 credit)

Choose one of the following:

HPF 160	Wellness	.1
HPF 168	Weight Training & Conditioning	.2
HPF 221	Jazz Techniques	.3
HPF 268	Advanced Weight Training	.2
HPF 277	Stress Management	.2
HPF 278	Stress Management for Parents	.2

AUTOMOTIVE SERVICE TECHNOLOGY

REQUIREMENTS (38 credits)

AUT 102	Engine Performance I	.4
AUT 103	Engine Performance II	.4
AUT 105	Automotive Brakes	.3
AUT 106	Suspension and Steering	.3
AUT 108	Automotive Air Conditioning/Heating	.3
AUT 112	Electrical Systems I	.3
AUT 113	Electrical Systems II	.3
AUT 201	Engine Repair	.4
AUT 202	Automatic Transmission	.4
AUT 204	Manual Drivetrain	.3
AUT 210	Co-op Experience	.4

AUTOMOTIVE SERVICE TECHNOLOGY ELECTIVES

(8 credits)

AUT 101	General Service	.2
AUT 211	Co-Op Experience	.4
AUT 212	Co-Op Experience	.4
AUT 242	General Automotive Lab	.2

or select electives from classes in BUS, EET, MTT or WLD