



www.jccmi.edu

Automotive Service Technology Associate in Applied Science



**Engineering/Manufacturing &
Industrial Technology**

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 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.

As part of the Toyota Technical Education Network, our Toyota corporate-sponsored connection, 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.

As part of the Ford Maintenance and Light Repair network, our Ford corporate-sponsored connection, 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.

Minimum credits:	63
Minimum cumulative GPA:	2.0
Minimum grade in all courses:	2.0
Minimum JCC credits:	12
MACRAO agreement:	No

Contact program staff, Les Coxon at 517-796-8541 or Dan Livingston at 517-796-8540.

GENERAL EDUCATION REQUIREMENTS — (17 credits)

ENGLISH — (3 credits)

ENG 131 Writing Experience 3

MATHEMATICS — (3 credits)

Choose any one of the following:

MTH 120 Beginning Algebra or higher 4

MTH 131 Intermediate Algebra 4

SCIENCE — (4 credits)

Choose one of the following:

BIO 131 General Biology 4

BIO 132 Human Biology 4

BIO 151 General Botany 4

BIO 152 General Zoology 4

BIO 155 Human Anatomy 5

CEM 121 Chemistry of Life 4

CEM 131 Fundamentals of Chemistry 4

CEM 132 Fundamentals of Organic & Biological Chemistry ... 4

CEM 141 General Chemistry I 5

CEM 142 General Chemistry II 5

GEL 160 Introduction to Geology 4

NSC 131 Contemporary Science 4

PHY 131 Conceptual Physics 4

PHY 151 Astronomy 4

PHY 231 College Physics I 4

PHY 251 Modern University Physics I 5

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 4

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 War3
 PLS 141 American National Government3
 PSY 140 Introduction to Psychology4
 PSY 152 Social Psychology3
 PSY 251 Abnormal Psychology3
 PSY 252 Developmental Psychology3
 SOC 152 Social Psychology3
 SOC 231 Principles of Sociology3
 SOC 236* Women in a Changing Society3

HUMANITIES — (3 credits)

Choose one of the following:

ART 111 Art History: Prehistoric to 14003
 ART 112 Art History: Renaissance to Present3
 ENG 210 Introduction to Film3
 ENG 236* Women in a Changing Society3
 ENG 246 Short Story & Novel4
 ENG 247 Poetry and Drama3
 ENG 249 African-American Literature3
 ENG 254 Children's Literature3
 ENG 255 American Literature 19th Century3
 ENG 256 American Literature 20th Century3
 ENG 257 World Literature I3
 HUM 131 Cultural Connections3
 MUS 130 Survey of Non-Western Music3
 MUS 131 Understanding Music3
 MUS 133 Music Education3
 MUS 151 Music Theory I4
 MUS 152 Music Theory II4
 PHL 231 Intro to Philosophy3
 PHL 232 Logic3
 THR 116 Introduction to Theatre3

HEALTH/PHYSICAL FITNESS — (1 credit)

Choose one of the following:

HPF 160 Wellness1
 HPF 168 Weight Training & Conditioning2
 HPF 221 Jazz Techniques3
 HPF 268 Advanced Weight Training2
 HPF 277 Stress Management2

**AUTOMOTIVE SERVICE TECHNOLOGY CORE
REQUIREMENTS— (38 credits)**

AUT 102 Engine Performance I4
 AUT 103 Engine Performance II4
 AUT 105 Automotive Brakes3
 AUT 106 Suspension and Steering3
 AUT 108 Automotive Air Conditioning/Heating3
 AUT 112 Electrical Systems I3
 AUT 113 Electrical Systems II3
 AUT 201 Engine Repair4
 AUT 202 Automatic Transmission4
 AUT 204 Manual Drivetrain3
 AUT 210 Co-op Experience4

ELECTIVES — (8 credits)

AUT 101 General Service2
 AUT 118 Diesel Fundamentals2
 AUT 211 Co-Op Experience4
 AUT 212 Co-Op Experience4
 AUT 245 Auto Lab Experience.....4

or select electives from classes in BUA or ELT

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