JACKSON Community COLLEGE

www.jccmi.edu

AUTOMOTIVE SERVICE TECHNOLOGY – ASSOCIATE IN APPLIED SCIENCE (AUTO.AAS)

Engineering/Manufacturing & Industrial Technology Career Pathway

AUTOMOTIVE SERVICE TECHNOLOGY – ASSOCIATE IN APPLIED SCIENCE (AUTO.AAS)

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 in 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. T-TEN students must purchase an additional Toyota textbook for each course. Toyota provides T-TEN students with: Toyota work uniforms, web-based 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 use Ford web-based training with exit tests. Upon successful completion of the courses, students 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: 62
Minimum cumulative GPA: 2.0
Minimum grade in all courses: 2.0
Minimum JCC AUT credits: 12
Minimum JCC credits: 12
MACRAO Agreement: No

GENERAL EDUCATION REQUIREMENTS – (16 CREDITS)

ADO 1: Write clearly, concisely and intelligibly (3 credits)
Take the following:
ENG 131 Writing Experience I

ADO 2: Speak clearly, concisely and intelligibly
Program courses meet this requirement

ADO 3: Demonstrate computational skills and mathematical reasoning (3-5 credits)
Choose one of the following:
MTH 120 Beginning Algebra or higher

ADO 4: Demonstrate scientific reasoning (4-5 credits)
Choose one of the following:
BIO 110 Introductory Biology
BIO 131 General Biology
BIO 132 Human Biology
BIO 155 Anatomy & Physiology
BIO 220 Microbiology
BIO 253 Human Anatomy and Physiology I
CEM 131 Fundamentals of Chemistry
CEM 141 General Chemistry I
GEL 160 Introduction to Geology
NSC 131 Contemporary Science
PHY 131 Conceptual Physics
PHY 151 Astronomy
PHY 231 College Physics I
PHY 251 Modern University Physics I

ADO 5: Understand human behavior and social systems, the principles which govern them, and their implications for the present and future (3-4 credits)
Choose one of the following:
ECN 231 Macroeconomics
ECN 232 Microeconomics
HIS 131 Western Civilization to 1555
HIS 132 Western Civilization 1555 to Present
HIS 231 Development of the US through the Civil War
HIS 232 Development of the US from the Civil War
HIS 235 20th Century History
PLS 141 American National Government
PSY 140 Introduction to Psychology
SOC 231 Principles of Sociology

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ADO 6: Understand aesthetic experience and artistic creativity (3 credits)
Choose one of the following:
ART 111 Art History: Prehistoric to 1400
ART 112 Art History: Renaissance to Present
ENG 210 Introduction to Film
ENG 246 Short Story & Novel
ENG 247 Poetry & Drama
ENG 252 Shakespeare
ENG 254 Children's Literature
ENG 255 American Literature - 19th Century
ENG 256 American Literature - 20th Century
HUM 131 Cultural Connections
MUS 131 Understanding Music
THR 116 Introduction to Theatre

ADO 7: Think critically
Program courses meet this requirement

ADO 8: Make responsible decisions in personal and professional contexts
Program courses meet this requirement

ADO 9: Work productively with others, recognizing individual contributions to group success
Program courses meet this requirement

ADO 10: Understand and respect the diversity and interdependence of the world's peoples and cultures
Program courses meet this requirement

AUTOMOTIVE SERVICE TECHNOLOGY CORE REQUIREMENTS – (42 CREDITS)

Take the following:
AUT 101 General Service
AUT 102 Engine Performance I
AUT 103 Engine Performance II
AUT 105 Automotive Brakes
AUT 106 Suspension & Steering
AUT 108 Automotive Air Conditioning /Heating
AUT 112 Electrical Systems I
AUT 113 Electrical Systems II
AUT 201 Engine Repair
AUT 202 Automatic Transmission
AUT 204 Manual Transmissions & Drivelines
AUT 210 Internship/Externship
AUT 234 Undercar Service

AUTOMOTIVE SERVICE TECHNOLOGY ELECTIVES – (4 CREDITS)

Choose from the following:
AUT 099 Jammin' Custom Cars
AUT 118 Diesel Fundamentals
AUT 119 Alternate Fuels
AUT 203 Advanced Engine Performance
AUT 211 Internship/Externship
AUT 212 Internship/Externship
AUT 214 Auto Lab Experience
AUT 240 Hybrid Technology
AUT 248 Diesel Engine Performance