

AUTOMOTIVE TECHNOLOGY (ASE)

(Wallace Campus)

Advancements in technology have greatly affected today's automotive technician. Being a good mechanic is not enough. Today a technician must possess excellent mechanical skills, be knowledgeable of electronics, be able to diagnose complex problems, and be committed to keeping pace with future advancements. More than 100,000 jobs are available to qualified applicants, but technical training and hands-on experience are required.

Students are trained on late-model vehicles with modern equipment used in a classroom and laboratory setting. Students must purchase their own books, supplies, and tools as required on the tool list.

Students completing all courses listed in the curriculum will be awarded an associate in applied science degree in Automotive Technology. Students completing all Automotive Technology courses, CIS 146, ENG 101, MTH 116, and SPH 106 or 107 will be awarded a program certificate. Admission is conditional and depends on the student's ability to perform the essential functions identified for this program. Reasonable accommodations are considered.

DEGREE CURRICULUM

<i>Course</i>	<i>Credit Hours</i>
Area I: Written and Oral Communications	6
ENG 101 English Composition I	3
SPH 106 Fundamentals of Oral Communication OR	
SPH 107 Fundamentals of Public Speaking	3
Area II: Humanities and Fine Arts	3
Humanities/Fine Arts Elective	3
Area III: Natural Sciences, Mathematics, and Computer Science	9
CIS 146 Microcomputer Applications	3
MTH 116 Mathematical Applications	3
Science/Computer Science/Math Elective	3
Area IV: History, Social and Behavioral Sciences	3
History/Social/Behavioral Sciences Elective	3
Area V: Career and Technical Courses	48
Required Orientation Courses	
ORI 101 Orientation to College OR	
ORI 105 Orientation and Student Success	1-3
ORI 104 WorkKeys® Assessment and Advisement	1
Required Field of Concentration Courses	
ASE 101 Fundamentals of Automotive Technology	3
ASE 112 Electrical Fundamentals	3
ASE 121 Braking Systems	3
ASE 122 Steering and Suspension	3
ASE 124 Automotive Engines	3
ASE 130 Drive Train and Axles	3
ASE 133 Motor Vehicle Air Conditioning	3
ASE 162 Electrical and Electronic Systems	3
ASE 191 Co-op	2
ASE 212 Advanced Electrical and Electronic Systems	3

ASE 224 Manual Transmission/Transaxle	3
ASE 230 Automatic Transmission/Transaxle	3
ASE 239 Engine Performance	3
ASE 244 Engine Performance and Diagnostics	3
ASE 246 Automotive Emissions	3
ASE 291 Co-op	3
Total Field of Concentration Credits	47
Total Credits for Degree	73

SHORT CERTIFICATE CURRICULUM - OPTIONS

BRAKE SYSTEMS

<i>Courses</i>	<i>Credit Hours</i>
Area V: Field of Concentration Courses	11
ASE 101 Fundamentals of Automotive Technology	3
ASE 112 Electrical Fundamentals	3
ASE 121 Braking Systems	3
ASE 182 Special Topics	2
Total Credits for Short Certificate	11

ELECTRICAL/ELECTRONIC SYSTEMS

<i>Courses</i>	<i>Credit Hours</i>
Area V: Field of Concentration Courses	14
ASE 101 Fundamentals of Automotive Technology	3
ASE 112 Electrical Fundamentals	3
ASE 162 Electrical and Electronic Systems	3
ASE 212 Advanced Electrical and Electronic Systems	3
ASE 183 Special Topics	2
Total Credits for Short Certificate	14

HEATING AND AIR CONDITIONING

<i>Courses</i>	<i>Credit Hours</i>
Area V: Field of Concentration Courses	10
ASE 101 Fundamentals of Automotive Technology	3
ASE 112 Electrical Fundamentals	3
ASE 133 Motor Vehicle Air Conditioning	3
ASE 181 Special Topics	1
Total Credits for Short Certificate	10

Automotive Technology Brake Systems Certificate Suggested Course Sequence

FIRST SEMESTER

ASE 101
ASE 112
ASE 121
ASE 182

Automotive Technology Electrical/Electronic Systems Certificate Suggested Course Sequence

FIRST SEMESTER

ASE 101
ASE 112
ASE 162
ASE 212
ASE 183

*Automotive Technology
Heating and Air Conditioning Certificate
Suggested Course Sequence*

FIRST SEMESTER

ASE 101
ASE 112
ASE 133
ASE 181

*Automotive Technology
Associate in Applied Science Degree
Suggested Course Sequence*

FIRST SEMESTER

ASE 101
ASE 112
ASE 130
ASE 133
ORI 101 or 105

SECOND SEMESTER

ASE 121
ASE 122
ASE 162
ASE 239

THIRD SEMESTER

ASE 124
ASE 212
ASE 224
ASE 244

FOURTH SEMESTER

ASE 191
CIS 146
ENG 101
MTH 116
ORI 104

FIFTH SEMESTER

ECO 231
Science/Computer
Science/Math Elective
SPH 106
Humanities/Fine Arts
Elective

SIXTH SEMESTER

ASE 230
ASE 246
ASE 291