

AUTOMOTIVE SYSTEMS TECHNOLOGY DEGREE (A60160)

The Automotive Systems Technology curriculum prepares individuals for employment as entry-level transportation service technicians. The program provides an introduction to transportation industry careers and increases student awareness of the diverse technologies associated with this dynamic and challenging field.

This program prepares individuals to apply technical knowledge and skills to repair, service, and maintain all types of automobiles. Course work includes brake systems, electrical systems, engine performance, engine repair, suspension and steering, automatic and manual transmissions and drive trains, and heating and air condition systems.

Graduates of this program should be prepared to take professional licensure exams, which correspond to certain programs of study, and to enter careers as entry-level technicians in the transportation industry.

COURSE & HOUR REQUIREMENTS

Course Number & Name	Class Hours	Lab Hours	Credit Hours
FALL SEMESTER			
ACA 111 College Student Success	1	0	1
AUT 151 Brake Systems	2	3	3
TRN 110 Intro to Transport Tech	1	2	2
TRN 120 Basic Trans Electricity	4	3	5
TRN 170 PC Skills for Trans	1	2	2
Total	9	10	13
SPRING SEMESTER			
AUT 114 Safety and Emissions	1	2	2
AUT 116 Engine Repair	2	3	3
AUT 116A Engine Repair Lab	0	3	1
AUT 141 Suspension & Steering	2	3	3
*MAT 110 Mathematical Measurement & Lit.	2	2	3
*Humanities/Fine Arts Elective	3	0	3
Total	10	13	15
SUMMER SEMESTER			
AUT 181 Engine Performance I	2	3	3
AUT 181A Engine Performance I Lab	0	3	1
*COM 110 Introduction to Communication	3	0	3
TRN 140 Trans Climate Control	1	2	2
TRN 140A Trans Climate Control Lab	1	2	2
Total	7	10	11
FALL SEMESTER			
AUT 221 Auto Transm/Transaxles	2	3	3
AUT 221A Auto Transm/Transaxles Lab	0	3	1
*ENG 111 Writing and Inquiry	3	0	3
TRN 145 Adv. Trans Electronics	2	3	3
*Social/Behavioral Science Elective	3	0	3
Total	10	9	13
SPRING SEMESTER			
AUT 183 Engine Performance 2	2	6	4
AUT 231 Man Tran/Axles/Drtrains	2	3	3
AUT 281 Adv Engine Performance	2	2	3
TRN 130 Intro to Sustainable Trans	2	2	3
<i>Choose one of the following:</i>			
WBL 111 Work-Based Learning I	0	10	1
AUT 213 Automotive Servicing 2	1	3	2
Total	8/9	16/23	14/15
TOTAL SEMESTER CREDIT HOURS FOR DEGREE			66/67
<i>*HUMANITIES/FINE ARTS ELECTIVE Choose one from the following:</i>			
ART 111 Art Appreciation	3	0	3
HUM 115 Critical Thinking	3	0	3
MUS 110 Music Appreciation	3	0	3
REL 110 World Religions	3	0	3

Course Number & Name	Class Hours	Lab Hours	Credit Hours
PHI 240 Introduction to Ethics	3	0	3
**SOCIAL/BEHAVIORAL SCIENCE ELECTIVE Choose one from the following:			
HIS 121 Western Civilization I	3	0	3
HIS 122 Western Civilization II	3	0	3
HIS 131 American History I	3	0	3
HIS 132 American History II	3	0	3
PSY 150 General Psychology	3	0	3
SOC 210 Introduction to Sociology	3	0	3

*This course is a component of the general education requirements needed for graduation.

NOTE: Students are required to take ACA 111 in their first semester.

AUTOMOTIVE SYSTEMS TECHNOLOGY DIPLOMA (D60160)

COURSE & HOUR REQUIREMENTS

Course Number & Name	Class Hours	Lab Hours	Credit Hours
FALL SEMESTER			
ACA 111 College Student Success	1	0	1
AUT 151 Brake Systems	2	3	3
TRN 110 Intro to Transport Tech	1	2	2
TRN 120 Basic Trans Electricity	4	3	5
TRN 170 PC Skills for Trans	1	2	2
Total	9	10	13
SPRING SEMESTER			
AUT 114 Safety and Emissions	1	2	2
AUT 116 Engine Repair	2	3	3
AUT 116A Engine Repair Lab	0	3	1
AUT 141 Suspension & Steering	2	3	3
*MAT 110 Mathematical Measurement & Lit.	2	2	3
*Humanities/Fine Arts Elective	3	0	3
Total	10	13	15
SUMMER SEMESTER			
AUT 181 Engine Performance I	2	3	3
AUT 181A Engine Performance I Lab	0	3	1
*COM 110 Introduction to Communication	3	0	3
TRN 140 Trans Climate Control	1	2	2
TRN 140A Trans Climate Control Lab	1	2	2
Total	7	10	11
TOTAL SEMESTER CREDIT HOURS FOR DIPLOMA			39
*HUMANITIES/FINE ARTS ELECTIVE Choose one from the following:			
ART 111 Art Appreciation	3	0	3
HUM 115 Critical Thinking	3	0	3
MUS 110 Music Appreciation	3	0	3
REL 110 World Religions	3	0	3

*This course is a component of the general education requirements needed for graduation.

*Students must select three (3) semester credit hours from humanities/fine arts. See advisor for list of approved courses.

NOTE: Students are required to take ACA 111 in their first semester.

AUTOMOTIVE TECHNOLOGY CERTIFICATE (C60160A)

This certificate prepare individuals to work as entry level automotive technicians which includes preparation for the ASE exam in Engine Repair and certifications in safety and emissions.

COURSE & HOUR REQUIREMENTS

Class Title	Class Hours	Lab Hours	Credit Hours
AUT 116 Engine Repair	2	3	3
AUT 116A Engine Repair Lab	0	3	1

Class Title	Class Hours	Lab Hours	Credit Hours
AUT 114 Safety and Emissions	1	2	2
TRN 110 Intro to Transport Tech	1	2	2
TRN 120 Basic Trans Electricity	4	3	5
TRN 170 PC Skills for Tran	1	2	2
TOTAL SEMESTER CREDIT HOURS FOR CERTIFICATE	9	15	15