

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 OR ACA 122 Transfer & Career Success	0/1	0/2	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	8/9	10/12	13
SPRING SEMESTER			
AUT 114 Safety and Emissions	1	2	2
AUT 116 Engine Repair	2	3	3
AUT 116A Engine Repair Lab	0	4	2
AUT 141 Suspension & Steering	2	3	3
**Math	2/3	2	3/4
**Humanities/Fine Arts Elective	3	0	3
Total	10/11	14	16/17
SUMMER SEMESTER			
AUT 181 Engine Performance I	2	3	3
AUT 181A Engine Performance I Lab	0	3	1
**English/Communication Elective	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	4	2
*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	10	14
SPRING SEMESTER			
AUT 183 Engine Performance 2	2	6	4
AUT 231 Man Tran/Axles/Dr trains	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			68/70

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

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Course Number & Name	Class Hours	Lab Hours	Credit Hours
**MATH ELECTIVE <i>Select one course from the following:</i>			
MAT 110 Mathematical Measurement & Lit.	2	2	3
MAT 121 Algebra/Trigonometry I	2	2	3
MAT 143 Quantitative Literacy	2	2	3
MAT 152 Statistical Methods I	3	2	4
MAT 171 Precalculus Algebra	3	2	4
**ENGLISH/COMMUNICATION ELECTIVE <i>Select one course from the following:</i>			
COM 110 Introduction to Communication	3	0	3
COM 120 Intro to Interpersonal Communication	3	0	3
COM 231 Public Speaking	3	0	3
ENG 112 Writing/Research in the Disciplines	3	0	3
ENG 114 Professional Research & Reporting	3	0	3
**SOCIAL/BEHAVIORAL SCIENCE ELECTIVE <i>Select one course from the following:</i>			
ECO 251 Principles of Microeconomics	3	0	3
ECO 252 Principles of Macroeconomics	3	0	3
HIS 111 World Civilizations I	3	0	3
HIS 112 World Civilizations II	3	0	3
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
HIS 221 African American History	3	0	3
POL 120 American Government	3	0	3
PSY 150 General Psychology	3	0	3
SOC 210 Introduction to Sociology	3	0	3
SOC 213 Sociology of the Family	3	0	3
SOC 225 Social Diversity	3	0	3
**HUMANITIES/FINE ARTS <i>Select one course from the following:</i>			
ART 111 Art Appreciation	3	0	3
ART 113 Art Methods and Materials	0	6	3
ENG 131 Introduction to Literature	3	0	3
ENG 231 American Literature I	3	0	3
ENG 232 American Literature II	3	0	3
ENG 241 British Literature I	3	0	3
ENG 242 British Literature II	3	0	3
HUM 115 Critical Thinking	3	0	3
MUS 110 Music Appreciation	3	0	3
MUS 111 Fundamentals of Music	3	0	3
MUS 112 Introduction to Jazz	3	0	3
PHI 210 History of Philosophy	3	0	3
PHI 215 Philosophical Issues	3	0	3
PHI 240 Introduction to Ethics	3	0	3
REL 110 World Religions	3	0	3