



AUTOMOTIVE SYSTEMS TECHNOLOGY

A60160 - 3 Year Pre-Apprenticeship

Program Planning Guide

Replaces Curriculum Schedule with Revision Date: FA2023

Date Revised: FA2025

CURRICULUM BY SEMESTER

| | | | Hours Per Week | | |
|---|------|---|----------------|-----|-----------|
| Course No. | | Course Title | Class | Lab | Credits |
| Summer Pre-Apprenticeship | | | | | |
| TRN | 110 | Introduction to Transport Technology | 1 | 2 | 2 |
| TRN | 170 | PC Skills for Transportation | 1 | 2 | 2 |
| Total Semester Hours | | | | | 4 |
| Fall Semester 1 | | | | | |
| TRN | 120 | Basic Transportation Electricity | 4 | 3 | 5 |
| AUT | 114 | Safety AND Emissions | 1 | 2 | 2 |
| Choose 3 credits from the following: MAT/PHY | | | | | |
| MAT | 110 | Math Measurement and Literacy or | 2 | 2 | 3 |
| PHY | 110 | Physics Conceptual with 110A lab | 3 | 0 | 3 |
| PHY | 110A | Physics Conceptual Lab | 0 | 2 | 1 |
| Major Elective-Choose 2 credit hours from Major Electives list./WBL | | | | | 2 |
| Total Semester Hours | | | | | 13 |
| Spring Semester 1 | | | | | |
| AUT | 116 | Engine Repair | 2 | 3 | 3 |
| ENG | 110 | Freshman Composition | 3 | 0 | 3 |
| Major Elective-Choose 2 credit hours from Major Electives list. | | | | | 2 |
| Total Semester Hours | | | | | 8 |
| Summer Semester 1 | | | | | |
| TRN | 140 | Transportation Climate Control | 1 | 2 | 2 |
| PSY | 118 | Interpersonal Psychology | 3 | 0 | 3 |
| Total Semester Hours | | | | | 5 |
| Fall Semester 2 | | | | | |
| AUT | 123 | Powertrain Diagnosis & Service | 1 | 3 | 2 |
| AUT | 231 | Manual Transmission/Transaxles/Drive Trains | 2 | 3 | 3 |
| Major Elective-Choose 2 credit hours from Major Electives list/ WBL | | | | | 2 |
| Total Semester Hours | | | | | 7 |
| Spring Semester 2 | | | | | |
| AUT | 141 | Suspension & Steering System | 2 | 3 | 3 |
| AUT | 151 | Brake Systems | 2 | 3 | 3 |
| Major Elective-Choose 2 credit hours from Major Electives list/WBL | | | | | 2 |
| Total Semester Hours | | | | | 8 |

| Summer Semester 2 | | | | | |
|--|-----|--------------------------------------|---|---|-----------|
| AUT | 213 | Automotive Service 2 | 1 | 3 | 2 |
| HUM | 121 | The Nature of America | 3 | 0 | 3 |
| Total Semester Hours | | | | | 5 |
| Fall Semester 3 | | | | | |
| AUT | 181 | Engine Performance 1 | 2 | 3 | 3 |
| AUT | 183 | Engine Performance 2 | 2 | 6 | 4 |
| COM | 120 | Intro to Interpersonal Communication | 3 | 0 | 3 |
| Total Semester Hours | | | | | 10 |
| Spring Semester 3 | | | | | |
| AUT | 281 | Advance Engine Performance | 2 | 2 | 3 |
| AUT | 221 | Automatic Transmissions/Transaxles | 2 | 3 | 3 |
| Total Semester Hours | | | | | 6 |
| Total Graduation Requirement Credit | | | | | 66 |

Major Elective List: Students must select eight semester hours from the Major Electives courses listed below. Completing these elective courses will complete the requirements for the Automotive Degree. We do not promise to offer any of these specific courses in both Fall and Spring semesters.

MAJOR ELECTIVES

| | | | Hours Per Week | | |
|-----------------|------------------------|--|----------------|-----|---------|
| Course No. | | Course Title | Class | Lab | Credits |
| Major Electives | Credit Hours Needed: 8 | | | | |
| ATT | 115 | Green Trans Safety and Service | 1 | 2 | 2 |
| ATT | 125 | Hybrid-Electric Transportation | 2 | 4 | 4 |
| ATT | 140 | Emerging Transportation Technology | 2 | 3 | 3 |
| HET | 134 | Diesel Fuel and Power System | 2 | 3 | 3 |
| TRN | 180 | Basic Welding for Transportation | 1 | 4 | 3 |
| TRN | 180a | Basic Welding for Transportation lab | 0 | 3 | 1 |
| TRN | 120A | Basic Transportation Electricity LAB | 0 | 3 | 1 |
| AUT | 116A | Engine Repair LAB | 0 | 3 | 1 |
| AUT | 181A | Engine Performance 1 LAB | 0 | 3 | 1 |
| TRN | 140A | Transportation Climate Control LAB | 1 | 2 | 2 |
| AUT | 141A | Suspension & Steering Systems LAB | 0 | 3 | 1 |
| AUT | 151A | Brake Systems LAB | 0 | 3 | 1 |
| AUT | 221A | Automatic Transmissions/Transaxles LAB | 0 | 3 | 1 |
| WBL | 112 | Work-Based Learning I | 0 | 20 | 2 |
| WBL | 122TB | Work-Based Learning II | 0 | 20 | 2 |
| WBL | 212TB | Work-Based Learning IV | 0 | 20 | 2 |
| WBL | 222TB | Work-Based Learning V | 0 | 20 | 2 |