

# AUTOMOTIVE TECHNOLOGY CERTIFICATE OF APPLIED SCIENCE

## Program Learning Outcomes

Upon successful completion of this program, students will be able to:

- Diagnose problems in the ASE areas of Manual Drive Train and Axles, Brakes, Engine Repair, and Electrical/Electronic Systems used in modern automobiles.
- Repair complex systems in the ASE areas of Manual Drive Train and Axles, Brakes, Engine Repair, and Electrical/Electronic Systems used in modern automobiles.
- Perform diagnosis techniques and proper repair procedures relative to the flat rate time standard.
- Identify health and safety hazards and demonstrate proper techniques and practices associated with the automotive industry.

## Required Courses

Code	Title	Credits
AST 106	Auto Manual Drive Train/Axles	2
AST 107	Auto Man Drive Train/Axles Lab	2
AST 114	Automotive Brakes	2
AST 115	Automotive Brakes Lab	2
AST 162	Automotive Engine Diagnostics	3
AST 163	Auto Engine Diagnostics Lab	3
AST 175	Engine Rebuild Lab	5
COMX 106	Comm in a Dynamic Workplace	3
M 111	Technical Mathematics	3
TRID 170	Engine Theory	4
TRID 181	Transport Elect Systems Lec	2
TRID 182	Transport Elect Systems Lab	2
WRIT 104	Workplace Communications	3
<b>Optional Courses</b>		
CAPP 120	Introduction to Computers	
TRID 150	Environ/Shop Practices	
<b>Total Minimum Credits</b>		<b>36</b>

*Students should check the course descriptions for required prerequisites. Math and English requirements are usually determined by performance on placement tests or transfer credits.*

## Suggested Plan of Study

Code	Title	Credits
First Semester		
AST 106	Auto Manual Drive Train/Axles	2
AST 107	Auto Man Drive Train/Axles Lab	2
COMX 106	Comm in a Dynamic Workplace	3
TRID 170	Engine Theory	4
TRID 181	Transport Elect Systems Lec	2
TRID 182	Transport Elect Systems Lab	2
M 111	Technical Mathematics	3
<b>Total</b>		<b>18</b>

Second Semester		
AST 114	Automotive Brakes	2
AST 115	Automotive Brakes Lab	2
AST 175	Engine Rebuild Lab	5
AST 162	Automotive Engine Diagnostics	3
AST 163	Auto Engine Diagnostics Lab	3
WRIT 104	Workplace Communications	3
<b>Total</b>		<b>18</b>