

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
Optional Courses		
CAPP 120	Introduction to Computers	
TRID 150	Environ/Shop Practices	
Total Minimum Credits		36

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
Total		18

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
Total		18