



**Career and Technical Education Pathway
Engineering and Applied Technology
Automotive Systems Technology**

Automotive Systems Technology Diploma

The Automotive Systems Technology curriculum prepares individuals for employment as Automotive Service Technicians. It provides an introduction to automotive careers and increases student awareness of the challenges associated with this fast and ever-changing field. Classroom and lab experiences integrate technical and academic course work. Upon completion of this curriculum, students should be prepared to take the ASE exam and be ready for full-time employment in dealerships and repair shops in the automotive service industry.

GENERAL EDUCATION COURSES (certificate general education is optional)				
Course Prefix/Num	Course Title			
ENG 110 *	Freshman Composition	3		SHC
PHY 121	Applied Physics 1	4		SHC
Total Semester Hours Credit for General Education Courses:		7		SHC
CORE COURSES				
Course Prefix/Num	Course Title			
TRN 110	Intro to Transport Tech	2		SHC
TRN 120	Basic Transp Electricity	5		SHC
TRN 130	Intro to Sustainable Transp	3		SHC
TRN 140	Transp Climate Control	2		SHC
TRN 145	ADV Transp Electronics	3		SHC
Total SHC for Core Courses:		15		SHC
OTHER MAJOR COURSES				
Course Prefix/Num	Course Title			
AUT 116	Engine Repair	3		SHC
AUT 116A	Engine Repair Lab	1		SHC
AUT 141	Suspension and Steering Systems	3		SHC
AUT 141A	Suspension and Steering Systems Lab	1		SHC
AUT 151	Brake Systems	3		SHC
AUT 151A	Brake Systems Lab	1		SHC
AUT 181	Engine Performance I	3		SHC
AUT 281	Advanced Engine Performance	3		SHC
TRN 140A	Transp Climate Control Lab	2		SHC
Total SHC for Other Major Courses:		20		SHC
OTHER REQUIRED COURSES				
Course Prefix/Num	Course Title			
ACA 115	Success and Study Skills	1		SHC
Total SHC for Other Required Courses:		1		SHC
Total SHC for Program		43		

* Requires benchmark/placement testing

Estimated Costs:

Textbooks: \$300

Consumable Supplies: \$48 per semester

Tools/Instruments: \$320 or more depending on the quality and source, please see your advisor for details.