

CAREER AND COLLEGE PROMISE TECHNICAL EDUCATION CERTIFICATE AUTOMOTIVE SYSTEMS TECHNOLOGY (C60160HS)

Curriculums in the Mobile Equipment Maintenance and Repair pathway prepare 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.

Course work may include transportation systems theory, braking systems, climate control, design parameters, drive trains, electrical/electronic systems, engine repair, engine performance, environmental regulations, materials, product finish, safety, steering/suspension, transmission/transaxles, and sustainable transportation, depending on the program major area chosen.

Graduates of this pathway 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.

This program prepares individuals to apply technical knowledge and skills to repair, service, and maintain all types of automobiles. Includes instruction in brake systems, electrical systems, engine performance, engine repair, suspension and steering, automatic and manual transmissions and drive trains, and heating and air condition systems.

Course Requirements

	Course Title	Credits
First Year		
Fall Semester		
TRN 120	Basic Transportation Electricity	5
		Credit Hours: 5
Spring Semester		
AUT 163	Advanced Automotive Electricity	3
AUT 163A	Advanced Automotive Electricity Lab	1
		Credit Hours: 4
Second Year		
Fall Semester		
AUT 181	Engine Performance I	3
		Credit Hours: 3
Spring Semester		
AUT 151	Brake Systems	3
AUT 151A	Brake Systems Lab	1
		Credit Hours: 4

TOTAL SEMESTER CREDIT HOURS: 16