

Advanced Manufacturing and Engineering Career Pathway
Automotive Technology Career Major Program Outline

Course	Grade	Teacher Certification	Credits	Content
Foundational Courses				
CTE Foundations: Advanced Manufacturing and Engineering	9	Manufacturing	1 CTE	Pathway and Career Major Exposure Safety Tools and Materials Plans, Prints, and Schematics Basic Workflow Career Research Literacy and Mathematics Development Basic Metalwork and Manufacturing
Introduction to Integrated Technology	10	Technology 2x Auto Tech Manufacturing	2 CTE	Design Research/Critical Analysis Historical Reference Technical Drawing and Schematics Linkages and Applied Academics Projects and basic skills development in Robotics, Optics, Manufacturing, and Automotive Technology
Career Major Courses: Automotive Technology				
Auto Tech I	11	Auto Tech	2 CTE	Wheel, tire and wheel bearing diagnosis and repair Inspect tires and perform tire service Repair punctured tires Steering and suspension principles Steering and suspension repair 5 Wheel Alignment Hydraulic principles Disc brakes principles Disc brake repair Drum brakes principles Drum brake repair Brake assist systems Antilock braking systems Traction control systems
Auto Tech II	11/12	Auto Tech	2 CTE	Electrical and electronics Ohm's law Watt's law Schematic reading Starting and charging diagnosis Accessory installation and operation Engine diagnostics Obd II diagnostics, retrieve diagnostic codes Determine course of action for codes that were retrieved Engine mechanical testing