

AUTOMOTIVE TECHNOLOGY: COMPREHENSIVE AUTOMOTIVE REPAIR AND SERVICE (CARS), AS

Program code: AUTO-AS-CAR

Location: Gateway, Naugatuck Valley

Program Description

The objective of the Comprehensive Automotive Repair and Service (CARS) Degree Program is to educate those seeking employment in the field of automotive technology. It will prepare students for entry-level employment as Automotive Technicians. The Automotive Technician field has been in very high demand in the State, and it is growing! The intent of the program is to meet the growing need for technicians in Connecticut and the nation. This program furthers the college's mission to "respond to the changing academic, occupational, technological needs" by offering "a broad range of credit (technical, career, and academic) programs and courses leading to employment, transfer, and lifelong learning." The automotive curriculum is designed to meet all Automotive Service Excellence Education Foundation (A.S.E.) Accredited Training Program requirements for national accreditation.

Learning Outcomes

Upon successful completion of all program requirements, the graduates should be able to:

1. Meet all the Automotive Service Excellence Education Foundation (A.S.E.) Accredited Training Program required outcomes for Master certification.
2. Demonstrate workplace skills related to the occupation, including but not limited to resume preparation, seeking employment, maintaining a safe and healthy workplace environment, demonstrating workplace ethics, and teamwork.
3. Apply knowledge of theory and safety to accomplish certain tasks related to the occupation.
4. Identify and use appropriate tools, testing, and measurement equipment to accomplish certain tasks related to the occupation.
5. Use current reference and training materials from accepted industry publications and standards to accomplish specific tasks.
6. Demonstrate knowledge and understanding of all fundamental automotive concepts as outlined by ASE Accredited Training Program requirements.

The Automotive Technician program at CT State Naugatuck Valley is accredited by the Automotive Service Excellence (ASE) Education Foundation as an ASE Accredited Training Program. This Program will prepare Students for the G1, A1, A2, A3, A4, A5, A6, A7, A8 & L1 ASE exams upon completion of work length time requirements. Students interested in continuing to a bachelor's degree should pursue the Comprehensive Automotive Repair and Service Associates (CARS) of Applied Science Degree program which will prepare them for to prepare for C1 and P1 ASE exams.

Degree Requirements

Code	Title	Credits
General Education Courses		
ENG 1010	Composition	3
	Elective MATH 1000 or higher	3-4
	Elective ARHX - Arts & Humanities Course	3-4
	Elective SCRX - Scientific Reasoning Course or Elective SCKX - Scientific Knowledge Course	3-4
	Elective SBSX - Social / Behavioral Science Course or Elective HISX - Historical Knowledge Course	3
	Elective ORAX - Oral Communication Course or Elective WRIX - Written Communication II Course	3
CCS 1001	College and Career Success	3
Program Courses		
AUTO 1030	Automotive Maintenance and Light Repair	3
AUTO 1033	Electrical/Electronics Systems	3
AUTO 1031	Engine Repair	3
AUTO 1038	Brakes Systems	3
AUTO 2037	Heating and Air Conditioning	3
AUTO 1036	Suspension and Steering	3
AUTO 1037	Engine Performance	3
AUTO 2038	Advanced Engine Performance	3
AUTO 2033	Manual Drivetrain and Axles	3
AUTO 2035	Automotive Transmission/ Transaxle	3
AUTO 1194	Co-op Work Experience I	3
Directed Electives		
Choose two of the following:		6
AUTO 1090	Introduction to Welding	
AUTO 2039	Light Vehicle Diesel Engines	
AUTO 2294	Co-op Work Experience II	
AUTO 2394	Co-op Work Experience III	
AUTO 2030	Service and Parts Department Management	
Total Credits		60-63

The Automotive Technology curriculum offers four degree options. Students may not earn more than one associate's degree in this area. Additional certificates may be earned.

- Automotive Technology: Advanced Engine Performance Certificate
- Automotive Technology: Automotive Management, AS
- Automotive Technology: Comprehensive Automotive Repair and Service (CARS) Certificate
- Automotive Technology: Comprehensive Automotive Repair and Service (CARS), AS (p. 1)
- Automotive Technology: Fundamentals Certificate
- Automotive Technology: General Auto Service Certificate
- Automotive Technology: General Motors Automotive Service Certificate
- Automotive Technology: General Motors Automotive Service Education Program (ASEP), AAS
- Automotive Technology: Honda Express Technician Certificate

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- Automotive Technology: Honda Professional Auto Career Training (PACT) Auto Service Certificate
- Automotive Technology: Honda Professional Automotive Career Training (PACT), AAS