

AUTOMOTIVE TECHNOLOGY - ADVANCED TECHNICAL CERTIFICATE (ATC)

Explore More About This Program: <https://cwi.edu/program/automotive-technology>

Certificate Requirements

Course	Course Title	Min Credits
General Education Requirements		
<i>Complete one of the following courses to fulfill the GEM 1 or GEM 2 requirement:</i>		
Select one of the following:		3
GEM 1 - Written Communication course		
GEM 2 - Oral Communication course		
<i>Complete the following course to fulfill the GEM 3 requirement:</i>		
GEM 3 - Mathematical Ways of Knowing course		3
<i>Complete the following course to fulfill the GEM 6 requirement:</i>		
GEM 6 - Social & Behavioral Ways of Knowing course		3
Major Requirements		
AUTO 111	Automotive Technology Fundamentals and Safety	2
AUTO 114	Automotive Maintenance and Light Repair Fundamentals	6
AUTO 121	Electrical Systems	3
AUTO 125	Automotive Electrical Systems 2	3
AUTO 131	Brakes	3
AUTO 135	Suspension and Steering	3
AUTO 141	Engine Repair	3
AUTO 145	Manual Drivetrain and Axles	3
AUTO 250	Engine Management Systems 1	3
AUTO 255	Engine Management Systems 2	3
AUTO 260	Automatic Transmission/Transaxle	3
AUTO 265	Heating and Air Conditioning	3
AUTO 276	Automotive Technology Capstone	12
Minimum Credit Hours Required		59

Gainful Employment: For more information about our graduation rates, the median debt of students who have completed the program, and other important information, please visit our website at cwi.edu/ge_listing (https://cwi.edu/ge_listing).

Plan of Study Guide

Below is the required sequence of courses that you need to take in order to complete your program requirements. Please register for each semester as shown below using the Student Planning tool in myCWI. Consult your Student Success Advisor for any questions regarding this course sequence plan.

First Year

Fall		Credit Hours
AUTO 111	Automotive Technology Fundamentals and Safety	2
AUTO 114	Automotive Maintenance and Light Repair Fundamentals	6
AUTO 121	Electrical Systems	3
AUTO 141	Engine Repair	3
Select one of the following:		3
GEM 1 - Written Communication course		

GEM 2 - Oral Communication course		
	Total Semester Credit Hours	17
Spring		
AUTO 125	Automotive Electrical Systems 2	3
AUTO 131	Brakes	3
AUTO 135	Suspension and Steering	3
AUTO 145	Manual Drivetrain and Axles	3
GEM 3 - Mathematical Ways of Knowing course		3
	Total Semester Credit Hours	15
Second Year		
Fall		
AUTO 250	Engine Management Systems 1	3
AUTO 255	Engine Management Systems 2	3
AUTO 260	Automatic Transmission/Transaxle	3
AUTO 265	Heating and Air Conditioning	3
GEM 6 - Social & Behavioral Ways of Knowing course		3
	Total Semester Credit Hours	15
Spring		
AUTO 276	Automotive Technology Capstone	12
	Total Semester Credit Hours	12
	Minimum Credit Hours Required	59

Program Outcomes

The following are student learning outcomes for the Advanced Technical Certificate in Automotive Technology at CWI:

1. Demonstrate the appropriate mastery of knowledge and skills that are identified by the NATEF Task List to become a successful entry level Automotive Technician.
2. Demonstrate the ability to communicate effectively, both orally and in writing.
3. Demonstrate the ability to identify, analyze, and solve technical problems associated with being an Automotive Technician.
4. Demonstrate knowledge and understanding of safety practices specifically related to automotive repair at CWI.
5. Demonstrate proper work habits and ethics.
6. Demonstrate industry standards for preparing a vehicle.