

AUTOMOTIVE MAINTENANCE TECHNICIAN

Overview

Automotive Technician Technical Diploma

Program Code: 31-602-3

For more information: wctc.edu/auto-main-tech (<http://www.wctc.edu/auto-main-tech/>)

Automotive maintenance technicians use high-tech and traditional equipment to complete service work, replace worn parts and conduct diagnostic tests on vehicles. In this program, gain skills to work on engines, drive trains, brakes, electrical, steering and suspension systems. Develop knowledge of hybrid vehicle safety, advanced chassis systems, and transmissions and transaxles. Training combines classroom and lab instruction.

The minimum required course grades and program grade point average (GPA) for students under this catalog are:

Core Courses = C
Program GPA = 2.0

Build your degree along a career pathway. Start with a couple of courses or an entry-level credential to enter the job market in your area of interest, then continue with higher credentials on your educational path for job advancement and higher wages.

Career Pathway

1. Auto Maintenance and Light Repair Technical Diploma 21
2. Auto Maintenance Technician Technical Diploma 45
3. Automotive Technology-General Option 60

Related Certificates than can be earned along the way.

- Automotive Basics Technical Certificate (<https://catalog.wctc.edu/programs/automotive-basics/>)
- Automotive Leaders Technical Certificate (<https://catalog.wctc.edu/programs/automotive-leaders/>)

Learning Outcomes

Program Outcomes

1. Demonstrate professionalism appropriate for the auto service industry.
2. Perform maintenance and light repair of automotive brake systems.
3. Perform maintenance and light repair of automotive electrical & electronic systems.
4. Perform maintenance and light repair of automotive steering and suspension systems.

Critical Life Skills

To help our students prepare for success in a workplace and society that is **increasingly global, multi-cultural, and collaborative**, all students are given opportunities to develop and demonstrate Critical Life Skills, both

in and out of the classroom. The following Critical Life Skills are learning outcomes for WCTC students.

- **Communication:** Demonstrate appropriate communication.
- **Critical Thinking/Problem Solving:** Demonstrate critical thinking skills to analyze situations and solve problems.
- **Relationships:** Demonstrate effective interpersonal skills.
- **Self-management:** Demonstrate responsible and respectful behavior.

Required Courses

Listed below are the required courses for the program. To view the recommended sequence for taking courses click on the plan of study tab(s) above. See your Academic Advisor to design a full-time or part-time plan that works for you!

View your **Program Matrix** to find out when each course will be offered (term and time of day).

Code	Title	Credits
Core Courses		
442-131	Automotive Welding Fundamental	2
Approved Substitute: 442-303		
602-104	Brake Systems	3
602-105	Introduction to Hybrid Safety	1
602-107	Auto Service Fundamentals	2
Approved Substitute: 602-100		
602-108	Intro to Light Duty Diesel Eng	1
602-109	Auto Transmission/Transaxle	4
602-122	Engine Performance Advanced	3
602-124	Steering & Suspension Systems	3
602-125	Electrical&Electronic Systems1	2
602-127	Electrical&Electronic Systems2	3
602-128	Electrical&Electronic Systems3	3
602-149	Manual Drive Train and Axles	4
602-190	Co-Op Dealership Experience I	1
602-195	Advanced Chassis Systems	2
602-196	Climate Control Systems	3
602-197	Engine Performance 1	3
602-204	Engine Repair I	3
Approved Substitute: 602-123		
602-205	Engine Repair II	2
Approved Substitute: 602-103		
Total Credits		45

Full-time, Fall Start Plan

Exact order of courses is subject to change to accommodate lab time. Check with your Advisor on exact sequence.

First Year		Credits
Fall Term 1		
602-104	Brake Systems	3
602-107	Auto Service Fundamentals	2
602-125	Electrical&Electronic Systems1	2
Credits		7

Fall Term 2		
602-124	Steering & Suspension Systems	3
Credits		3
Spring Term 1		
602-197	Engine Performance 1	3
602-127	Electrical&Electronic Systems2	3
602-205	Engine Repair II	2
Credits		8
Spring Term 2		
602-196	Climate Control Systems	3
Credits		3
Second Year		
Summer Term		
602-190	Co-Op Dealership Experience I	1
Credits		1
Fall Term 1		
602-128	Electrical&Electronic Systems3	3
602-149	Manual Drive Train and Axles	4
602-204	Engine Repair I	3
Credits		10
Fall Term 2		
442-131	Automotive Welding Fundamental	2
602-108	Intro to Light Duty Diesel Eng	1
Credits		3
Spring Term 1		
602-109	Auto Transmission/Transaxle	4
Credits		4
Spring Term 2		
602-105	Introduction to Hybrid Safety	1
602-122	Engine Performance Advanced	3
602-195	Advanced Chassis Systems	2
Credits		6
Total Credits		45

Fall Term 2		
602-197	Engine Performance 1	3
602-205	Engine Repair II	2
Credits		5
Second Year		
Spring Term 1		
442-131	Automotive Welding Fundamental	2
602-108	Intro to Light Duty Diesel Eng	1
602-128	Electrical&Electronic Systems3	3
Credits		6
Spring Term 2		
602-149	Manual Drive Train and Axles	4
602-204	Engine Repair I	3
Credits		7
Summer Term		
602-190	Co-Op Dealership Experience I	1
Credits		1
Fall Term 1		
602-105	Introduction to Hybrid Safety	1
602-109	Auto Transmission/Transaxle	4
602-122	Engine Performance Advanced	3
Credits		8
Fall Term 2		
602-195	Advanced Chassis Systems	2
Credits		2
Total Credits		45

Full-time, Spring Start Plan

Exact order of courses is subject to change to accommodate lab time.

Check with your Advisor on exact sequence.

First Year		
Spring Term 1		
602-104	Brake Systems	3
602-107	Auto Service Fundamentals	2
Credits		5
Spring Term 2		
602-124	Steering & Suspension Systems	3
602-125	Electrical&Electronic Systems1	2
Credits		5
Fall Term 1		
602-127	Electrical&Electronic Systems2	3
602-196	Climate Control Systems	3
Credits		6