

AUTOMOTIVE TECHNOLOGY - GENERAL OPTION

Overview

Automotive Technology - General Option Associate of Applied Science Degree, 60 credits

Program Code: 10-602-3

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

This program addresses the growing need for highly professional, competent technicians to work in automotive dealerships. Learn on the latest automotive vehicles, components, educational materials and state-of-the-art equipment available. Develop knowledge on engines, fuel management, electronics, transmissions/transaxles, brakes and air conditioning, and get an introduction to hybrids and diesel technology.

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

Core Courses = C

General Studies 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

Learning Outcomes

Program Outcomes

1. Demonstrate professionalism appropriate for the auto service industry.
2. Perform diagnosis, service, and repair of automotive internal combustion engines.
3. Perform diagnosis, service, and repair of automotive automatic transmission/transaxle systems.
4. Perform diagnosis, service, and repair of automotive manual drive train and axles systems.
5. Perform diagnosis, service, and repair of automotive steering and suspension systems.
6. Perform diagnosis, service, and repair of automotive brake systems.
7. Perform diagnosis, service, and repair of automotive electrical & electronic systems.
8. Perform diagnosis, service, and repair of automotive heating and air conditioning systems.
9. Perform diagnosis, service, and repair of automotive engine performance 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. Work with your Academic Advisor to design a program plan!

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
Approved Substitute: 602-170		
602-107	Auto Service Fundamentals	2
Approved Substitute: 602-100		
602-108	Intro to Light Duty Diesel Eng	1
602-117	Engine Repair-Basic	2
Approved Substitute: 602-205		
602-118	Engine Repair-Advanced	3
Approved Substitute: 602-204		
602-122	Engine Performance Advanced	3
602-124	Steering & Suspension Systems	3
Approved Substitute: 602-130		
602-125	Electrical&Electronic Systems1	2
Approved Substitute: 602-110		
602-127	Electrical&Electronic Systems2	3
602-128	Electrical&Electronic Systems3	3
602-137	Intro-Hybrid & Elec Vehicles	3
Approved Substitute: 602-210		
602-155	Drive Train & Axle Systems	3
Approved Substitute: 602-149		
602-158	Automatic Transmis/Drive Train	3
Approved Substitute: 602-109		
602-190	Internship - Automotive	1
Approved Substitute: 602-187		
602-195	Advanced Chassis Systems	2
602-196	Climate Control Systems	3
602-197	Engine Performance 1	3
General Studies		
801-136	English Composition 1	3
Approved Substitute: 801-223		

801-197	Technical Reporting	3
804-107	College Mathematics	3
Approved Substitutes: 804-115 OR 804-116 OR 804-118 OR 804-195 OR 804-198 OR (804-304 AND 804-305)		
809-195	Economics	3
Approved Substitutes: 809-143 OR 809-287		
809-199	Psychology of Human Relations	3
Approved Substitute: 809-198		
Total Credits		60

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		
Fall Term 1		Credits
602-104	Brake Systems	3
602-107	Auto Service Fundamentals	2
602-125	Electrical&Electronic Systems1	2
801-136	English Composition 1	3
804-107	College Mathematics	3
602-124	Steering & Suspension Systems	3
Credits		16
Spring Term 1		
602-117	Engine Repair-Basic	2
602-127	Electrical&Electronic Systems2	3
602-196	Climate Control Systems	3
602-197	Engine Performance 1	3
801-197	Technical Reporting	3
Credits		14
Second Year		
Summer Term		
602-190	Internship - Automotive	1
Credits		1
Fall Term 1		
442-131	Automotive Welding Fundamental	2
602-108	Intro to Light Duty Diesel Eng	1
602-118	Engine Repair-Advanced	3
602-128	Electrical&Electronic Systems3	3
602-155	Drive Train & Axle Systems	3
809-195	Economics	3
Credits		15
Spring Term 1		
602-122	Engine Performance Advanced	3
602-137	Intro-Hybrid & Elec Vehicles	3
602-158	Automatic Transmis/Drive Train	3
602-195	Advanced Chassis Systems	2
809-199	Psychology of Human Relations	3
Credits		14
Total Credits		60

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		Credits
602-104	Brake Systems	3
602-107	Auto Service Fundamentals	2
602-124	Steering & Suspension Systems	3
602-125	Electrical&Electronic Systems1	2
801-136	English Composition 1	3
804-107	College Mathematics	3
Credits		16
Fall Term 1		
602-117	Engine Repair-Basic	2
602-127	Electrical&Electronic Systems2	3
602-196	Climate Control Systems	3
602-197	Engine Performance 1	3
801-197	Technical Reporting	3
Credits		14
Second Year		
Spring Term 1		
442-131	Automotive Welding Fundamental	2
602-108	Intro to Light Duty Diesel Eng	1
602-118	Engine Repair-Advanced	3
602-128	Electrical&Electronic Systems3	3
602-155	Drive Train & Axle Systems	3
809-195	Economics	3
Credits		15
Summer Term		
602-190	Internship - Automotive	1
Credits		1
Fall Term 1		
602-122	Engine Performance Advanced	3
602-137	Intro-Hybrid & Elec Vehicles	3
602-158	Automatic Transmis/Drive Train	3
602-195	Advanced Chassis Systems	2
809-199	Psychology of Human Relations	3
Credits		14
Total Credits		60