

ASSOCIATE OF APPLIED SCIENCE (AAS) IN AUTOMOTIVE

Program Description

UCC's Automotive Technology program partners with Chrysler, Ford, Subaru, and Toyota to offer OEM certification along with an AAS degree. Training and certification are provided in Engine Repair and Maintenance, Drive Trains, Suspension and Steering, Braking Systems, Electrical/Electronic Systems, Heating and Airconditioning, Engine Performance and Drivability, Light Duty Diesel, and Alternative Fuels, Hybrid, and Electrical vehicles. The UCC Automotive Program is accredited by the ASE Education Foundation.

Program Outcomes

Students who successfully complete the Automotive AAS will:

1. Apply fundamentals of automotive service training, including the basics of automotive diagnostics, repair, pre-delivery inspection, and warranty repair procedure.
2. Diagnose, service, and repair automotive internal combustion engines
3. Diagnose, service, and repair automotive brake, steering, suspension systems, and handling concerns.
4. Diagnose, service, and repair electronic engine controls and emission systems
5. Diagnose, service, and repair automotive electrical systems
6. Diagnose, service, and repair automotive drive trains
7. Diagnose, service, and repair automotive climate control systems
8. Diagnose, service and repair Hybrid/Electric vehicles.

Career Considerations

UCC's Automotive Technology AAS program is designed to give the successful student the required skills to gain employment as an entry level technician at an automotive dealership or repair shop.

Program Course Requirements

Course	Title	Credits
First Year		
First Term		
AUT 100A	Intro to Automotive Tech I	2
AUT 100B	Intro to Automotive Tech II	4
AUT 116	Electrical I	6
Credits		12
Second Term		
AUT 111	Engine Repair and Maintenance	6
AUT 113	Drive Trains	6
MTH 102	Math for the Trades (or higher)	4
Credits		16
Third Term		
AUT 114	Suspension and Steering	6
AUT 115	Braking Systems	6
CWE 180	Intro to Work Experience ²	3
Credits		15

Second Year		
First Term		
AUT 216	Electrical II	6
AUT 218	Engine Performance I	6
WR 117 or WR 115	Writing for Trades (or higher) or Intro to Expos Writing	4
Credits		16
Second Term		
AUT 228	Engine Performance II	6
AUT 217	Heating and Air Conditioning	6
COM 218Z	Interpersonal Communication ¹	4
Credits		16
Third Term		
AUT 219	Light Duty Diesel	6
AUT 220	Alternative Fuel Vehicles	6
AUT 280	CWE-Automotive ²	3-4
Credits		15-16
Total Minimum Credits		90-91

¹ Any approved Human Relations course can be taken, see advisor for complete course options

² CWE experiences are strongly recommended. If a student is unable to complete a CWE, they should see their instructor for a substitution.

Advising Notes:

- Successful students from Career Academy Automotive will have AUT 100A and AUT 111 and will not need to retake.
- Students will need to have completed AUT 100A or be currently enrolled in AUT 100A (available thru independent study each term) to enroll in other automotive courses.
- While the ideal course order will be with the student starting Fall term, they can start at various terms the first year.