

AUTOMOTIVE TECHNOLOGY - ASSOCIATE OF APPLIED SCIENCE DEGREE (AAS)

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

Degree Quick Facts

- **Instructional School:** Industry, Engineering, and Trades
- **Department:** Diesel, Automotive, and Powersports Technology
- **Program Code:** AUTO.AAS
- **Program Type:** Career and Technical Education
- **Available Fully Online:** No
- **Eligible for Federal Financial Aid:** Yes

Degree Requirements

Course	Course Title	Min Credits
General Education Requirements		
<i>Complete the following recommended course to fulfill the GEM 1 requirement:</i>		
ENGL 101	Writing and Rhetoric I ¹	3
<i>Complete the following recommended course to fulfill the GEM 2 requirement:</i>		
COMM 101	Fundamentals of Oral Communication ^{1,2}	3
<i>Complete the following recommended course to fulfill the GEM 3 requirement:</i>		
MATH 118 & 118L	Technical Math and Technical Math Lab ¹	3
<i>Complete the following recommended course to fulfill the GEM 6 requirement:</i>		
PSYC 140	Human Relations for Career and Personal Success ¹	3
<i>Complete the following recommended course to fulfill the General Education Elective requirement:</i>		
CWI 101	Connecting With Ideas ¹	3
Major Requirements		
AUTO 112	Automotive Foundations and Safety	3
AUTO 115	Automotive Maintenance	3
AUTO 121	Automotive Electrical Systems I	3
AUTO 125	Automotive Electrical Systems II	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 I	3
AUTO 255	Engine Management Systems II	3
AUTO 260	Automatic Transmission/Transaxle	3
AUTO 265	Heating and Air Conditioning	3
AUTO 267	Light-Duty Diesel Technology	4
AUTO 269	Hybrid and Advanced Electronic Diagnosis	4
AUTO 290	Automotive Technology Capstone	4
Minimum Credit Hours Required		63

¹ The courses listed under the General Education Requirements section are recommended by the department as the most beneficial general education (GE) options for students in this program. **Please note that students may fulfill their GE requirements by completing another course from within the applicable general education category.**

² Students in this program must complete a 3-credit Oral Communication course in order to fulfill their GEM 2 requirement.

Plan of Study Guide

The course sequence listed below is strongly recommended in order to complete your program requirements. Many Career and Technical Education (CTE) courses have prerequisites and/or corequisites that have been accounted for within this Plan of Study Guide. Please register for each semester as shown using the Student Planning tool in myCWI. Consult your Student Success Advisor for any questions regarding this course sequence plan.

****NOTE****

Automotive Technology (AUTO) majors are required to complete five general education courses in order to receive an Associate of Applied Science degree. Prior to beginning their AUTO courses, students are strongly encouraged to complete CWI 101 Connecting With Ideas and ENGL 101 Writing and Rhetoric I. While it is recommended that students complete all five of their required general education courses during the spring and/or summer semester(s) prior to beginning the program, students may elect to take the additional required GEM courses during the summer semester between their first and second year in the program if preferred. Students may also complete GEM courses during regular semesters while enrolled in AUTO courses, if they feel capable of doing so, and can complete them in any order they prefer. **Students should note that the completion of a GEM 1 (or GEM 2), GEM 3, and GEM 6 course are required prior to beginning their final semester of the program.**

First Year

Summer		Credit Hours
CWI 101	Connecting With Ideas (Recommended GE Elective) ¹	3
ENGL 101	Writing and Rhetoric I (Recommended GEM 1) ¹	3
Total Semester Credit Hours		6

Fall

AUTO 112	Automotive Foundations and Safety	3
AUTO 115	Automotive Maintenance	3
AUTO 121	Automotive Electrical Systems I	3
AUTO 141	Engine Repair	3
MATH 118 & 118L	Technical Math and Technical Math Lab (Recommended GEM 3) ¹	3
Total Semester Credit Hours		15

Spring

AUTO 125	Automotive Electrical Systems II	3
AUTO 131	Brakes	3
AUTO 135	Suspension and Steering	3
AUTO 145	Manual Drivetrain and Axles	3
COMM 101	Fundamentals of Oral Communication (Recommended GEM 2) ¹	3
Total Semester Credit Hours		15

Second Year**Fall**

AUTO 250	Engine Management Systems I	3
AUTO 255	Engine Management Systems II	3
AUTO 260	Automatic Transmission/Transaxle	3
AUTO 265	Heating and Air Conditioning	3
PSYC 140	Human Relations for Career and Personal Success (Recommended GEM 6) ¹	3
Total Semester Credit Hours		15

Spring

AUTO 267	Light-Duty Diesel Technology	4
AUTO 269	Hybrid and Advanced Electronic Diagnosis	4
AUTO 290	Automotive Technology Capstone	4
Total Semester Credit Hours		12
Minimum Credit Hours Required		63

¹ The general education (GE) courses listed above are recommended by the department as the most beneficial GE options for students in this program. **Please note that students may fulfill their GE requirements by completing another course from within the applicable general education category.**

² Students in this program must complete a 3-credit Oral Communication course in order to fulfill their GEM 2 requirement.

Program Learning Outcomes

Upon successful completion of this program, students will be able to:

- Demonstrate the appropriate mastery of knowledge and skills that are identified by the National Institute for Automotive Service Excellence (ASE) task list to become a successful entry-level automotive technician.
- Demonstrate the ability to communicate effectively, both verbally and in writing.
- Demonstrate the ability to identify, analyze, and solve technical problems associated with being an automotive technician.
- Demonstrate knowledge and understanding of safety practices specifically related to automotive repair at CWI.
- Demonstrate proper work habits and ethics.
- Demonstrate industry standards for preparing a vehicle.
- Understand the necessity for continued learning and investment in opportunities for continued professional and personal growth through education.