

# 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:** Automotive Service and Collision Repair
- **Program Code:** AUTO.AAS
- **Program Type:** Career and Technical Education
- **Available Fully Online:** No
- **Eligible for Federal Financial Aid:** Yes

NOTE: Courses required for this program *may* have an additional fee; more information can be found on the [Special Course Fees](#) web page.

## Degree Requirements

Course	Course Title	Min Credits
<b>General Education Requirements</b>		
ENGL 101	Writing and Rhetoric I (Recommended GEM 1) <sup>1</sup>	3
COMM 101	Fundamentals of Oral Communication (Recommended GEM 2) <sup>1</sup>	3
MATH 118 & 118L	Technical Math and Technical Math Lab (Recommended GEM 3) <sup>1</sup>	3
PSYC 140	Human Relations for Career and Personal Success (Recommended GEM 6) <sup>1</sup>	3
CWI 101	Connecting With Ideas (Recommended GE Elective) <sup>1</sup>	3
<b>Major Requirements</b>		
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 270	Light-Duty Diesel Technology	3
AUTO 275	Electric Vehicle and Hybrid Technology	3
AUTO 280	Automotive Shop Practice	3
AUTO 290	Automotive Technology Capstone	3
<b>Minimum Credit Hours Required</b>		<b>63</b>

<sup>1</sup> 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 the designated general education category.**

## Degree Plan: Fall Or Spring Start

*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 course sequence plan. Please register for each semester as shown using the Student Planning tool in myCWI. Consult your 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 and GEM 3 course are required prior to beginning their final semester of the program.**

**First Year****Summer**

Credit Hours	
<b>Full 8-Week Course Session</b>	
CWI 101	Connecting With Ideas (Recommended GE Elective) <sup>1</sup> 3
ENGL 101	Writing and Rhetoric I (Recommended GEM 1) <sup>1</sup> 3
<b>Total Semester Credit Hours</b>	
<b>6</b>	

**Fall**

<b>First 4-Week Course Session</b>	
AUTO 112	Automotive Foundations and Safety 3
<b>Second 4-Week Course Session</b>	
AUTO 115	Automotive Maintenance 3
<b>Third 4-Week Course Session</b>	
AUTO 121	Automotive Electrical Systems I 3
<b>Fourth 4-Week Course Session</b>	
AUTO 141	Engine Repair 3
<b>Full 16-Week Course Session</b>	
MATH 118 & 118L	Technical Math and Technical Math Lab (Recommended GEM 3) <sup>1</sup> 3
<b>Total Semester Credit Hours</b>	
<b>15</b>	

**Spring**

<b>First 4-Week Course Session</b>	
AUTO 125	Automotive Electrical Systems II 3
<b>Second 4-Week Course Session</b>	
AUTO 131	Brakes 3
<b>Third 4-Week Course Session</b>	
AUTO 135	Suspension and Steering 3
<b>Fourth 4-Week Course Session</b>	

AUTO 145	Manual Drivetrain and Axles 3
<b>Full 16-Week Course Session</b>	
COMM 101	Fundamentals of Oral Communication (Recommended GEM 2) <sup>1</sup> 3
<b>Total Semester Credit Hours</b>	
<b>15</b>	

**Second Year****Fall**

<b>First 4-Week Course Session</b>	
AUTO 250	Engine Management Systems I 3
<b>Second 4-Week Course Session</b>	
AUTO 255	Engine Management Systems II 3
<b>Third 4-Week Course Session</b>	
AUTO 260	Automatic Transmission/Transaxle 3
<b>Fourth 4-Week Course Session</b>	
AUTO 265	Heating and Air Conditioning 3
<b>Full 16-Week Course Session</b>	
PSYC 140	Human Relations for Career and Personal Success (Recommended GEM 6) <sup>1</sup> 3
<b>Total Semester Credit Hours</b>	
<b>15</b>	

**Spring**

<b>First 4-Week Course Session</b>	
AUTO 270	Light-Duty Diesel Technology 3
<b>Second 4-Week Course Session</b>	
AUTO 275	Electric Vehicle and Hybrid Technology 3
<b>Third 4-Week Course Session</b>	
AUTO 280	Automotive Shop Practice 3
<b>Fourth 4-Week Course Session</b>	
AUTO 290	Automotive Technology Capstone 3
<b>Total Semester Credit Hours</b>	
<b>12</b>	
<b>Minimum Credit Hours Required</b>	
<b>63</b>	

<sup>1</sup> 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 the designated general education category.**

## 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.