

# Advanced Diagnosis and Performance - Certificate of Achievement Canyon Country Campus Pathway

+If you have completed coursework at another college and/or are starting in a semester other than a Fall term, please follow up with the Counseling Department to determine if this sequence is appropriate for your academic and career goals.

## Program Description:

The Automotive Technology program is a comprehensive two-year program designed to prepare students with the industry defined entry-level skills needed for an automotive technician position in a variety of settings including dealerships, independent automotive repair facilities or city/county agencies. Students may opt to complete an associate in science degree or a certificate of achievement in Automotive Technology. The program provides in-depth training with extensive hands-on experiences. In the classroom, students learn the theoretical aspects of automotive diagnosis, repair and service. In the automotive laboratory setting students will experience applying the theory learned in the classroom. Upon completion of the course work required for the certificate or major, students will have achieved competencies in the areas of brakes, suspension, electrical components and wiring, transmissions, engine diagnosis and drivability. While many automobile dealerships require technicians to acquire manufacturer specialty training, the basic skills and knowledge needed to enter specialty training will be obtained in the Automotive Technician program at College of the Canyons.

## Student Learning Outcome:

Students will be able to demonstrate proficiency in the core skills and knowledge required for employment in the automotive industry.

**Canyon Country Campus Pathway:** This pathway allows students to start and finish their program at the Canyon Country Campus (CCC) and in conjunction with Online and/or OnlineLIVE formatted courses.

**Important Information:** For students interested in earning an Associate's degree and/or transfer, please follow up with the Counseling Office for additional information @ <https://www.canyons.edu/counseling> or (661)362-3288/(661)362-3811.

Major courses are sequenced and **BOLDED** based on recommendations by the [Automotive Technology Department](#)

**First Semester (3-10 units minimum) FA = Fall; WI = Winter; SP = Spring; SU = Summer**

Course	Title	Units	Major
AUTECH 110	<b>Introduction to Automotive Technology (FA, SP, SU)</b>	<b>4</b>	<b>Major</b>
AUTECH 112	<b>Engine Fundamentals for Technicians (FA, WI, SP, SU)</b>	<b>3</b>	<b>Major</b>
AUTECH 114	<b>Basic Automotive Electrical Systems (FA, WI, SP)</b>	<b>3</b>	<b>Major</b>
<b>Term Total:</b>		<b>10</b>	

**Second Semester (11-25 units minimum)**

Course	Title	Units	Major Courses
AUTECH 135	<b>Engine Performance (FA, SP)</b>	<b>4</b>	<b>Major</b>
AUTECH 180	<b>Engine Mechanical Maintenance and Light Repair (FA, WI, SP, SU)</b>	<b>3</b>	<b>Major</b>
AUTECH 190	<b>Automotive Computer Networking &amp; Diagnosis (SP)</b>	<b>4</b>	<b>Major</b>
AUTECH 200	<b>Introduction to Hybrid and Electronic Vehicles (FA, WI, SP)</b>	<b>4</b>	<b>Major</b>
<b>Term Total:</b>		<b>15</b>	

### Third Semester (26 -37 units minimum)

Course	Title	Units	Major
AUTECH 116	Advanced Automotive Electrical Systems (FA)	4	Major
AUTECH 136	Advanced Engine Performance and Emission Control (FA)	4	
AUTECH 185	Automotive Chassis Maintenance and Light Repair (FA)	3	Major
CWE-186 AUTO (Unpaid) OR CWE-188 AUTO	Cooperative Work Experience Education Automotive Technology (FA, WI, SP, SU)	1-4	Major
	<i>Term Total:</i>	12-15	

**Total Units: 37+**

### Counseling Resources

Automotive Technology Department: <https://www.canyons.edu/academics/automotive/index.php>

Counseling Department: <https://www.canyons.edu/student-services/counseling/>

Canyon Country Campus: <https://www.canyons.edu/canyoncountry/>

Canyon Country Campus Program Pathways: <https://www.canyons.edu/canyoncountry/pathways/index.php>

Internship Program (CWE): <https://www.canyons.edu/student-services/internships/index.php>

Petition for Certificate of Achievement: Petitions are due in the fall/spring/summer term you will complete the requirements and may be submitted before your last term or up until the final day of the term. The petition form must be reviewed with a counselor and may be found here:

<https://www.canyons.edu/student-services/admissions/records/forms.php>

### Career Resources

Automotive Technology Career Tree: <https://www.canyons.edu/academics/automotive/careertree/index.php>

ASE Prometrics Test Center: <https://www.canyons.edu/academics/communityeducation/certifications/ase-testing.php>

California Career Zone: <https://www.cacareerzone.org/>

O\*Net Online: <https://www.onetonline.org/>

Bureau of Labor and Statistics: [www.bls.gov](http://www.bls.gov)