

# Advanced Diagnosis and Performance – AS Degree (Associates GE Track)

*+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.

***Important Transfer Information:*** *The sequence listed below satisfies your associate degree requirements and does not meet all your transfer admissions requirements. Connect with a counselor to develop an individual student education plan through the Counseling Department @ <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 (2-15 units minimum) FA = Fall; WI = Winter; SP = Spring; SU = Summer**

Course	Title	Units	Major and GE Courses
<b>AUTECH 110</b>	<b>Introduction to Automotive Technology (FA, SP, SU)</b>	<b>4</b>	<b>Major</b>
<b>AUTECH 112</b>	<b>Engine Fundamentals for Technicians (FA, WI, SP, SU)</b>	<b>3</b>	<b>Major</b>
<b>AUTECH 114</b>	<b>Basic Automotive Electrical Systems (FA, WI, SP)</b>	<b>3</b>	<b>Major</b>
Math Competency	Choose one course from the AA GE Area 3 (FA, WI, SP, SU)	3-5	Area 3 and Dii
PE/Wellness	Take two PE or Dance activity courses (excluding DANCE 100) or Health Science 100, 149, 150, or 243 (FA, WI, SP, SU)	2-3	Area F
<b>Term Total:</b>		<b>15-18</b>	

*Check the [Honors](#) website for most recent course offerings. Must be enrolled in the Honors program to take courses, see below.*

## Second Semester (16-29 units minimum)

Course	Title	Units	Major and GE Courses
AUTECH 135	Engine Performance (FA, SP)	4	Major
AUTECH 180	Engine Mechanical Maintenance and Light Repair (FA, WI, SP, SU)	3	Major
CWE-186 AUTO (Unpaid) OR CWE-188 AUTO	Cooperative Work Experience Education Automotive Technology (FA, WI, SP, SU)	1-4	Major
ENGLISH 101/101H OR ENGL 104	English Composition (FA, WI, SP, SU) OR Technical Reading and Writing (FA, SP)	4 or 3	Area Di
American Institutions – Choose Option I or II <i>Department Recommends ECON 170</i>	Complete first course in chosen option – (note: must take both classes within one option) <i>Department Recommends Economic History of the US (FA, SP, SU) – see table below</i>	3	American Institutions
<b>Term Total:</b>		<b>14-18</b>	

## Third Semester (30-46 units minimum)

Course	Title	Units	Major and GE Courses
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
American Institutions – <i>Department Recommends POLISC 150</i>	Complete second course in chosen option – (note: both classes must be under the same option) <i>Department Recommends Introduction to American Government and Politics (FA, WI, SP, SU) – see table below</i>	3	American Institutions
Natural Science Course- <i>Department Recommends ENVRNMNT 104</i>	Choose one course from the AA GE Area A (FA, WI, SP, SU) – <i>Department Recommends Energy Resource Conservation (FA, SP)</i>	3	Area A
<b>Term Total:</b>		<b>17</b>	

## Fourth Semester (47-60 units minimum)

Course	Title	Units	Major and GE Courses
AUTECH 190	Automotive Computer Networking & Diagnosis (SP)	4	Major
AUTECH 200	Introduction to Hybrid and Electronic Vehicles (FA, WI, SP)	4	Major
*Social Science Course – <i>Department Recommends BUS 126 OR SOCI 101</i>	Choose one course from the AA GE Area B – <i>Department Recommends Managing Diversity in the Workplace (FA, SP, SU) or Introduction to Sociology (FA, WI, SP, SU)</i>	3	Area B and Diversity
Arts Course - <i>Department Recommends BUS 160 OR COMS 100</i>	Choose one course from the AA GE Area C <i>Department Recommends Business Ethics (FA, SP, SU) OR Process of Communication (FA, WI, SP, SU)</i>	3	Area C
<b>Term Total:</b>		<b>14</b>	

\*Consider taking a social science general education course with an (\*) indication on the [Associate Degree Requirements Checklist](#). Courses with an (\*) will also meet the GE Diversity Requirement. Refer to the [Associate Degree Checklist](#) for details.

**Total Units: 60+**

**American Institutions Requirement** – Select one of the options below and complete a total of 6 units

<b>Option I</b>	One course from the following: Economics 170/170H, History 111/111H, History 112/112H, History 120/120H, or History 130 AND Political Science 150/150H (FA, WI, SP, SU)
<b>Option II</b>	History 111/111H AND History 112/112H (FA, WI, SP, SU)

*Note: In order to complete your associate degree in two years, a minimum of 15 units per semester is necessary. You may enroll during the winter/summer intersessions to help lighten your academic load during the fall and spring terms.*

### **Counseling Resources**

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

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

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

COC Honors Program: <https://www.canyons.edu/academics/honors/index.php>

Associate General Education Guide: <https://www.canyons.edu/student-services/counseling/degrees/generaled.php>

Campus Alliances: <https://www.canyons.edu/administration/ie2/equity/alliances.php>

Petition for Associate Degree: Check the [student calendar](#) for term-specific submission deadlines. Summer graduation associate degree petitions are due by April 1st for your name to appear in the spring commencement pamphlet. The petition form must be reviewed with a counselor and may be found here:

[https://www.canyons.edu/resources/documents/student-services/admissions/Petition\\_for\\_Associate\\_Degree\\_and\\_Certificate\\_of\\_Achievement.pdf](https://www.canyons.edu/resources/documents/student-services/admissions/Petition_for_Associate_Degree_and_Certificate_of_Achievement.pdf)

### **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)