

# AUTOMOTIVE TECHNOLOGY – UNDERCAR TECHNICIAN – ASSOCIATE IN SCIENCE DEGREE, CERTIFICATE OF ACHIEVEMENT

Top Code:

0948.00

The curriculum prepares students for entry-level employment in brake system service, suspension inspections and repair, and tire and wheel repair including 4 wheel alignment. Systems of both foreign and domestic vehicles and a wide variety of vehicle models are covered. Antilock brake systems (ABS) are discussed and service procedures are demonstrated. The use of precision equipment such as computerized alignment machines, brake disc and drum lathes, and diagnostic scan tools keep students current with the latest industry standards. All applicable machining procedures and technical calculations are covered. Students are encouraged to take the Automotive Service Excellence (ASE) exams for Suspension and Steering (A4), and Brakes (A5). ASE Student Certification Examinations are administered within the program courses.

This program requires a lab fee, program uniform, and a valid driver's license. Tools are provided and are not required for the program.

An Occupational Skills Certificate is awarded upon successful completion of all required courses with a grade of C or better.

## Program Outcomes

- Apply a practical diagnosis, service, maintenance, and repair based on theory and operation of automotive brakes, suspension, and steering systems.
- Demonstrate the safe setup and operation of automotive brakes, suspension, and steering system tools and equipment required by the automotive industry.
- Perform NATEF laboratory tasks in an acceptable amount of time in a safe and consistent manner.

## Requirements for the Certificate of Achievement

Code	Title	Units
AUTO 200	AUTOMOTIVE FUNDAMENTALS FOR TECHNICIANS	4
AUTO 204	AUTOMOTIVE SUSPENSION & STEERING	6
AUTO 205	AUTOMOTIVE BRAKE SYSTEMS	4
AUTO 206A	BASIC AUTOMOTIVE ELECTRICAL SYSTEMS	4
<b>Total Units</b>		<b>18</b>

Visit the Program Mapper (<https://pasadena-city.programmapper.ws/academics/interest-clusters/7e85bdcc-be06-405f-9845-b8b63e49f8c6/>)

programs/a91b3cc3-0852-cbac-1588-33d956566f32/) for a suggested sequence of courses.

## General Education Requirements for the Associate in Science Degree

- General Information (<https://curriculum.pasadena.edu/academic-programs-leading-degree-certificate/>)
- PCC Local Gen Ed (<https://curriculum.pasadena.edu/academic-programs-leading-degree-certificate/#pcclocaltext>)
- CSU Breadth (<https://curriculum.pasadena.edu/academic-programs-leading-degree-certificate/#csubreadthtext>)
- IGETC (<https://curriculum.pasadena.edu/academic-programs-leading-degree-certificate/#igetctext>)