

AUTOMOTIVE TECHNOLOGY

ASSOCIATE DEGREE & CERTIFICATE PROGRAMS

2023-2024 CATALOG

DESCRIPTION

The Cuesta College Automotive Technology Department (an ASE Education Foundation Certified Program) has served students, the automotive service industry, and the community for over 45 years with course offerings in 17 specialized areas of concentration. Students enrolled in these courses have the opportunity to expand their knowledge relative to automotive technology and develop entry level skills required for employment in the automotive service industry. Successful completion of course requirements prepares students for the examinations required for voluntary certification as a professional technician offered by the National Institute for Automotive Service Excellence (ASE). The course offerings address the areas of concentration needed by a technician to become certified as a "Master Automobile Technician", and "Advanced Level Specialist".

ASSOCIATE DEGREE AND CERTIFICATE PROGRAMS

An Associate Degree, depending on the focus of study, is designed to prepare students for transfer into upper division course work in a bachelor's degree program, or, to prepare students to enter the workforce in a particular vocational field. To qualify for an Associate's Degree, a student must: (1) complete each major-specific course required for the degree with at least a "C" grade or better, (2) complete all Cuesta College general education, graduation and residency requirements, and (3) achieve an overall grade point average of 2.0 for all courses attempted (major, general education, elective).

A Certificate Program is designed for students who desire specific training to meet an immediate occupational or personal goal, or for promotion or lateral transfer within their existing field of employment. To qualify for a Certificate of Achievement or a Certificate of Specialization, a student must 1) complete all courses required for the Certificate with an overall grade point average of 2.0.

DEGREES, CERTIFICATES & AWARDS

- Associate in Science (A.S.)
- Certificate of Achievement (C.A.)

CAREER OPPORTUNITIES

- Alignment Specialist
- Automotive Engineer
- Brake Specialist
- Electrical Engineer
- Electrical Specialist
- Engine Performance/Drivability Specialist
- General Technician
- Industrial Engineer
- Industrial Technology
- Quick Service Tech
- Service Management
- Service Writer
- Transmission Specialist
- Tune-up Technician

CONTACT

Division Chair: Dave Fernandez
Division Assistant: Tiffanie Kerr
Office: Bldg 4300, Rm 4301
Phone: (805) 546-3264
Email: tiffanie_kerr@cuesta.edu

ASSOCIATE DEGREE PROGRAM

Advanced Engine Performance Technician — Associate in Science

This program is designed to prepare students for entry level employment as automotive technicians and in numerous other related areas of the automotive and transportation industry. Both theory and practical skills are emphasized. Directed practical work is given in all areas of automotive engine performance. Successful completion of course requirements prepares students for the examinations required for voluntary certification as a professional technician offered by the National Institute for Automotive Service Excellence (ASE). The course offerings address the areas of concentration needed by a technician to become certified as a “Master Automobile Technician”, and “Advanced Level Specialist”.

Required Courses (34.5 credits)

ATCH 109	Introduction To Automotive Computers	2.5
ATCH 120	Automotive Ignition Systems	2
ATCH 125	Engine Performance	4
ATCH 152	Internal Combustion Engines	3
ATCH 158	Automotive Electricity And Electronics	4
ATCH 160	Automotive Electrical Accessories	4
ATCH 264	Emission Control/Smog License Preparation	6
ATCH 168	Automotive Repair Business	3
ATCH 187	Automotive Fuel Injection And Turbochargers	3
ATCH 188	Automotive Heating And Air Conditioning	3
Total Credits:		34.5

Plus, pass a minimum of two certification tests for the National Institute of Automotive Service Excellence (ASE)

[Click Here For Program Student Learning Outcomes](#)

ASSOCIATE DEGREE PROGRAM

Automotive Technician — Associate in Science

Students enrolled in these courses have the opportunity to expand their knowledge relative to automotive technology and develop entry level skills required for employment in the automotive service industry. Successful completion of course requirements prepares students for the examinations required for voluntary certification as a professional technician offered by the National Institute for Automotive Service Excellence (ASE). The course offerings address the areas of concentration needed by a technician to become certified as a “Master Automobile Technician”, and “Advanced Level Specialist”.

TRANSFER PREPARATION

Courses that fulfill major requirements for an associate degree may differ from those needed to prepare to transfer. Students who plan to transfer to a four-year college or university should schedule an appointment with a Cuesta College counselor to develop a student education plan (SEP) before beginning their program.

TRANSFER RESOURCES:

CSU and UC Articulation Agreements and Majors Search Engine:
www.ASSIST.org
 CSU System Information:
www2.calstate.edu

FINANCIAL AID

Paying for the cost of a college education requires a partnership among parents, students and the college. As the cost of higher education continues to rise we want you to know that Cuesta College offers a full array of financial aid programs—grants, work study, scholarships, federal loan programs, and fee waivers. These programs are available to both full-and part-time students who are seeking a degree or certificate. For those who qualify, financial aid is available to help with tuition, fees, books and supplies, food, housing, transportation, and childcare. Please log onto our website for additional information:
www.cuesta.edu/student/studentervices/finaid

Required Courses (35.5 credits)

ATCH 109	Introduction To Automotive Computers	2.5
ATCH 152	Internal Combustion Engines	3
ATCH 153	Engine Repair Procedures	3
ATCH 158	Automotive Electricity And Electronics	4
ATCH 168	Automotive Repair Business	3
ATCH 182	Automatic Transmissions	4
ATCH 186	Chassis And Suspension Systems	3
ATCH 188	Automotive Heating And Air Conditioning	3
ATCH 280	Manual Drivetrains	3
ATCH 281	Manual Transmissions	3
ATCH 284	Braking Systems	4

Plus, pass a minimum of two certification tests for the National Institute of Automotive Service Excellence (ASE).

Total Credits: 35.5

[Click Here For Program Student Learning Outcomes](#)

CERTIFICATE PROGRAMS

Automotive Technician — Certificate of Achievement

Students enrolled in these courses have the opportunity to expand their knowledge relative to automotive technology and develop entry level skills required for employment in the automotive service industry. Successful completion of course requirements prepares students for the examinations required for voluntary certification as a professional technician offered by the National Institute for Automotive Service Excellence (ASE). The course offerings address the areas of concentration needed by a technician to become certified as a “Master Automobile Technician”, and “Advanced Level Specialist”.

Required Courses (35.5 credits)

ATCH 109	Introduction To Automotive Computers	2.5
ATCH 152	Internal Combustion Engines	3
ATCH 153	Engine Repair Procedures	3
ATCH 158	Automotive Electricity And Electronics.	4
ATCH 168	Automotive Repair Business	3
ATCH 182	Automatic Transmissions.	4
ATCH 186	Chassis And Suspension Systems	3
ATCH 188	Automotive Heating And Air Conditioning.	3
ATCH 280	Manual Drivetrains	3
ATCH 281	Manual Transmissions	3
ATCH 284	Braking Systems.	4

Plus, pass a minimum of two certification tests for the National Institute of Automotive Service Excellence (ASE).

Total Credits: 35.5

[Click Here For Program Student Learning Outcomes](#)

Engine Performance Specialist — Certificate of Achievement

This program is designed to prepare students for entry level employment as automotive technicians and in numerous other related areas of the automotive and transportation industry. Both theory and practical skills are emphasized. Directed practical work is given in all areas of automotive engine performance. Successful completion of course requirements prepares students for the examinations required for voluntary certification as a professional technician offered by the National Institute for Automotive Service Excellence (ASE). The course offerings address the areas of concentration needed by a technician to become certified as a "Master Automobile Technician", and "Advanced Level Specialist".

Required Courses (21.5 credits)

ATCH 109	Introduction To Automotive Computers	2.5
ATCH 120	Automotive Ignition Systems	2
ATCH 125	Engine Performance	4
ATCH 152	Internal Combustion Engines	3
ATCH 153	Engine Repair Procedures	3
ATCH 158	Automotive Electricity And Electronics	4
ATCH 187	Automotive Fuel Injection And Turbochargers	3
Total Credits:		21.5

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Maintenance and Light Repair Technician — Certificate of Achievement

Consistent with NATEF (National Automotive Technician Education Foundation) organization, a Maintenance and Light Repair Technician Certificate would allow students to receive the minimum coursework and training in order to earn entry level placement in the automotive field. Completers of this certificate could find entry-level employment in most automotive repair facilities.

Required Courses (21 credits)

ATCH 152	Internal Combustion Engines	3
ATCH 153	Engine Repair Procedures	3
ATCH 158	Automotive Electricity And Electronics	4
ATCH 160	Automotive Electrical Accessories	4
ATCH 186	Chassis And Suspension Systems	3
ATCH 284	Braking Systems	4
Total Credits:		21

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Highway 1
San Luis Obispo, California 93403