

Automotive Department

DEGREES:

Automotive Technician (AS)

CERTIFICATES OF ACHIEVEMENT

Automotive Automatic Transmissions
and Transaxles

Automotive Electrical and Body Systems

Automotive Maintenance and Light Repair

COURSES:

ATEC (Automotive Technology)

CONTACT INFORMATION:

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P.A.C.E. - INDUSTRIAL AND APPLIED TECHNOLOGY - A PATHWAY FOR ACADEMIC AND CAREER EXCELLENCE AT SOLANO COMMUNITY COLLEGE

ARE YOU THE KIND OF PERSON WHO...

- ...desires to work hands-on with objects, machines, tools, plants, or animals?
- ...enjoys work and play outside, including use your physical or athletic abilities?
- ...likes to follow directions to organize, plan and complete a project or task?
- ...is interested in attaining employment as soon as possible?

Automotive

Automotive Technician

Associate in Science

Program Description

The Automotive Technician program is designed to prepare graduates for entry level employment in the automotive industry as apprentice technicians, parts specialists, service consultants, or specialists in one of the many areas in the automotive service and repair industry.

The Associate in Science can be obtained upon completion of the 45-unit major, General Education, and electives as needed to complete a minimum of 60 units. All courses in the major must be completed with a minimum grade of C or a P if the course is taken on a Pass/No Pass basis.

Program Outcomes

Students who complete the Automotive Technician Associate in Science will be technically proficient in entry level skills as defined by the National Automotive Technician's Education Foundation (NATEF) by demonstrating:

1. Demonstrate the ability to properly service and repair automotive engines, automatic and manual transmissions and transaxles.
2. Demonstrate the ability to properly service and repair automotive brakes, steering and suspension systems.
3. Demonstrate the ability to properly service and repair automotive electrical, engine performance, HVAC and hybrid/alternative fuel vehicles.
4. Demonstrate effective workplace skills including oral and written communication and proper disposal and handling of hazardous waste materials

REQUIRED COURSES	Units
A TEC 070 Automotive Fundamentals	3
A TEC 130 Automotive Suspension and Steering.....	4
A TEC 131 Automotive Electrical Systems	4
A TEC 132 Automotive Brake Systems	4
A TEC 133 Automotive Engine Repair	4
A TEC 134 Automatic Transmissions/Transaxles	4
A TEC 135 Automotive Engine Performance.....	4
A TEC 136 Automotive Manual Drivetrain and Axles.....	4
A TEC 137 Automotive Heating and Air Conditioning.....	4
A TEC 138 Automotive Electronics.....	4
A TEC 139 Advanced Engine Performance.....	4
A TEC 140 Hybrid Vehicle Maintenance and Repair	2
Required Major Total Units.....	45

This is a Gainful Employment Program. For additional information, please visit http://www.solano.edu/gainful_employment/ and select "Automotive Technician."

Automotive

Automotive Automatic Transmissions and Transaxles

Certificate of Achievement

Program Description

This program is designed to prepare graduates for entry level employment in the automotive industry as an Automatic Transmission/Transaxle Service/Repair Technician.

The Certificate of Achievement can be obtained by completing the 17-unit major. All courses must be completed with a minimum grade of C or a P if the course is taken on a Pass/No Pass basis.

Program Outcomes

Students who complete the Automatic Transmissions and Transaxles Certificate of Achievement will be able to:

1. Diagnose, remove, and repair automotive transmissions and transaxles
2. Utilize electrical diagnostic equipment and do hands-on testing with digital multi-meter
3. Safely work on and repair hybrid and alternative fuel vehicles

REQUIRED COURSES.....	Units
ATEC 070 Automotive Fundamentals	3
ATEC 131 Automotive Electrical Systems	4
ATEC 134 Automatic Transmissions/Transaxles.....	4
ATEC 138 Automotive Electronics.....	4
ATEC 140 Hybrid Vehicle Maintenance and Repair	2
Total Units.....	17

This is a Gainful Employment Program. For additional information, please visit
http://www.solano.edu/gainful_employment/ and select "Automotive Automatic Transmissions and Transaxles."

Automotive

Automotive Electrical and Body Systems

Certificate of Achievement

Program Description

This program is designed to prepare graduates for entry level employment in the automotive industry as an Automotive Electrical/Electronics Service/Repair Technician.

The Certificate of Achievement can be obtained by completing the 17-unit major. All courses must be completed with a minimum grade of C or a P if the course is taken on a Pass/No Pass basis.

Program Outcomes

Students who complete the Automotive Electrical and Body Systems Certificate of Achievement will be able to:

1. Understand the theory of air conditioning and heating systems and how to properly repair automotive HVAC systems
2. Utilize electrical diagnostic equipment and do hands-on testing with digital multi-meter
3. Safely work on and repair hybrid and alternative fuel vehicles

REQUIRED COURSES.....	Units
ATEC 070 Automotive Fundamentals	3
ATEC 131 Automotive Electrical Systems	4
ATEC 137 Automotive Heating and Air Conditioning.....	4
ATEC 138 Automotive Electronics.....	4
ATEC 140 Hybrid Vehicle Maintenance and Repair	2
Total Units.....	17

This is a Gainful Employment Program. For additional information, please visit http://www.solano.edu/gainful_employment/ and select "Automotive Electrical and Body Systems."

Automotive

Automotive Maintenance and Light Repair

Certificate of Achievement

Program Description

This program is designed to prepare graduates for entry level employment in the automotive industry as apprentice technicians, lube technician, express service technician or parts specialist.

The Certificate of Achievement can be obtained by completing the 17-unit automotive major. All courses in the major must be completed with a minimum grade of C or a P if the course is taken on a pass-no pass basis.

Program Outcomes

Students who complete the Automotive Maintenance and Light Repair Certificate Achievement will be able to:

1. Demonstrate proficiency in diagnosing and repairing automotive steering and suspension systems
2. Use electrical diagnostic equipment and do hands-on testing with a digital multi-meter
3. Proficiently diagnose, service, and repair automotive brake systems
4. Safely work on and repair hybrid and alternative fuel vehicles

REQUIRED COURSES.....	Units
ATEC 070 Automotive Fundamentals	3
ATEC 130 Automotive Suspension and Steering.....	4
ATEC 131 Automotive Electrical Systems	4
ATEC 132 Automotive Brake Systems	4
ATEC 140 Hybrid Vehicle Maintenance and Repair	2
Total Units.....	17

This is a Gainful Employment Program. For additional information, please visit http://www.solano.edu/gainful_employment/ and select "Automotive Maintenance and Light Repair Technician."