COLLEGE OF THE SEQUOIAS

AUTOMOTIVE TECHNOLOGY

Automotive students will acquire skills and knowledge required to perform diagnosis, service, and repair of automotive systems in an automotive shop environment. The skills include, but are not limited to, working safely in the automotive shop and performing repair tasks correctly and safely using the correct tools.

WHAT YOU WILL LEARN

Automotive Terminology
Methods of Diagnosis & Needed Repairs
Preparation of Written Estimates
Protocols to Safely Repair and Service Electrical, Hydraulic, and Mechanical Systems
Systematic Approaches to Select the Proper Method to Diagnose, Repair, & Test Auto Systems
Proficient ways to Use Auto Diagnostic Equipment to Evaluate System Performance and Determine Repair Needs

WHERE DO YOU SEE YOURSELF?

• Engine Performance Repair and Servicing • Diagnosis •
• Automatic and Manual Transmission Disassembly • Electronic and Electrical Systems •
• Diagnosis and Repair or Replacement of Clutch Assemblies •
• Suspension and Steering Systems • Brake Systems • Heating & Air Conditioning •

PAY RANGE

Average salary for entry-level is between $17-25 per hour.

Auto Technicians with 3-5 years of experience can make between $30-50 per hour.

COS CAREER TECHNICAL EDUCATION

Learn More at COS.EDU/Automotive

PROGRAM CONTACT:
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DEGREES & CERTIFICATES OFFERED

Associate of Science in Automotive Technology (Basic) (AS) - 60 units
Skill Certificate in Automotive Air Conditioning Technology - 11 Units
Skill Certificate in Automotive Chassis Technology - 15 Units
Skill Certificate in Automotive Electrical Technology - 13 Units
Skill Certificate in Automotive Emissions Technology - 11 Units
Skill Certificate in Automotive Engine Technology - 11 Units
Skill Certificate in Automotive Power Train Systems Technology - 15 Units

CLASSES YOU MIGHT TAKE

AUTO 130 Intro to Automotive Technology
The first course in the automotive program and a prerequisite for all automotive core courses. topics include the development of shop skills, safe working practices and the correct use of tools in the auto shop environment.

AUTO 136 Automotive Electrical Systems
A study course of the theory, design and operation of the complete automotive electrical and electronic systems. Instruction and lab cover the inspection, testing and repair of the total electrical system and component parts.

AUTO 232 Automatic Transmissions
Instruction in automatic transmission torque converter theory and operation, hydraulic system function, planetary gear theory and application, and the diagnoses and repair of these systems.

AUTO 235 Automotive Brake Systems
This course will provide the student with the technical skills and knowledge to diagnose, test, service and repair automotive brake systems. Instruction in hydraulics, pneumatics, anti-lock braking systems, associated electronics and the safe and proper use of brake systems tools and equipment for service and repair procedures will be included.

AUTO 237 Automotive Air Conditioning
Study Course in the design, theory and operation of the automotive heating and air conditioning systems. Instruction and lab covers the system's components, servicing, testing, repair and retrofit.

AUTO 238 Automotive Engine Performance
An Advanced study course of engine performance, drive ability and diagnostics. Instruction will cover electrical and electronics systems, fuel delivery systems, computer onboard diagnostics, advanced ignition systems, emission control systems and other engine related topics.

AUTO 238 Automotive Adv, Computer Controls
This is an advanced study course of engine electrical and electronic computer control systems. The instruction will cover advanced theory, design and operation of computer control and on-board diagnostics systems, advanced fuel and ignition systems, and advanced test equipment.

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