

AUTOMOTIVE TECHNOLOGY DRIVETRAIN SPECIALIST ASSOCIATE IN SCIENCE AND CERTIFICATE OF ACHIEVEMENT



Many businesses need technicians with very specific skills to diagnose and repair complex problems of transmissions, transaxles, and differential vehicle power systems. This specialized program includes electronic controlled valve bodies, electronic differentials, four wheel drive, and all-wheel drive systems. Successful students will obtain a highly desired specialty set of skills. Work experience is a requirement for this major, which ensures student competency and success. All students are required to complete a digital portfolio resume used for assessment and practicum. Students completing all courses and general education courses will receive an Associate in Science during Commencement. Students completing all automotive course requirements will receive a Certificate of Achievement during Commencement.

Program Learning Outcomes

Upon successful completion of this certificate, students will be able to:

- Accurately describe and demonstrate knowledge of various automotive automatic, manual, electric and electronic drivetrain systems.
- Diagnose and repair automotive power transmission systems by performing necessary actions.
- Communicate effectively and professionally in a diverse setting that includes colleagues, clients, and supervisors.
- Comply with environmental health and safety regulations at the state and federal levels.

Associate in Science Degree Requirements

Code	Title	Units
AUTO-121	Automatic Transmission Theory and Operation	2
AUTO-121L	Automatic Transmission Theory and Operation Laboratory	1
AUTO-121T	Automatic Transmission Theory and Operation Assessment Test Out	0.5
AUTO-126	Automatic Transmission Diagnosis and Testing	2
AUTO-126L	Automatic Transmission Diagnosis and Testing Laboratory	1
AUTO-126T	Automatic Transmission Diagnosis and Testing Assessment Test Out	0.5
AUTO-131	Manual Transmission and Transaxle Repair	1

AUTO-131L	Manual Transmission and Transaxle Repair Laboratory	1
AUTO-131T	Manual Transmission and Transaxle Repair Assessment Test Out	0.5
AUTO-132	Differential and 4WD Systems Diagnosis and Service	1
AUTO-132L	Differential and 4WD Systems Laboratory	1
AUTO-132T	Differential and 4WD Systems Assessment Test Out	0.5
AUTO-161	Electrical Diagnosis and Repair	2
AUTO-161L	Electrical Diagnosis and Repair Laboratory	1
AUTO-161T	Electrical Diagnosis and Repair Assessment Test Out	0.5
AUTO-162	Electronics Diagnosis and Repair	2
AUTO-162L	Electronics Diagnosis and Repair Laboratory	1
AUTO-162T	Electronics Diagnosis and Repair Assessment Test Out	0.5
AUTO-263	Advanced Electronics	1
AUTO-263L	Advanced Electronics Laboratory	1
AUTO-263T	Advanced Electronics Assessment Test Out	0.5
AUTO-264	Hybrid and Electric Vehicle Operation and Diagnosis	1
AUTO-264L	Hybrid and Electric Vehicle Operation and Diagnosis Laboratory	1
AUTO-264T	Hybrid and Electric Vehicle Operation and Diagnosis Assessment Test Out	0.5
AUTO-212	Automotive Work Experience ¹	12
Total Units		36

Plus General Education Requirements (<https://catalog.gcccd.edu/cuyamaca/degree-requirements-transfer-information/>)

¹ Must be taken for a total of 12 units.

Certificate of Achievement

Students who complete the requirements above qualify for a Certificate in Automotive Technology Drivetrain Specialist. An official request must be filed with the Admissions and Records Office prior to the deadline as stated in the Academic Calendar.