

AUTOMOTIVE TECHNOLOGY – FORD ASSET ASSOCIATE IN SCIENCE



The Ford sponsored Automotive Student Service Education Training (ASSET) degree program offers a unique job training opportunity to students sponsored by a Ford dealership. The training includes all major content areas of Ford automotive systems. Students will demonstrate competency by efficiently performing prescribed tasks for Ford certification through laboratory or work experience assessments. Students who have previous college credit or an associate degree or higher may be exempt from all or part of the general education and Ford ASSET major credit requirements. Furthermore, students may use previous military training, automotive classes from accredited colleges, trade schools, or manufacturers training for credit by examination. Please contact the department coordinator for more details.

Program Learning Outcomes

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

- Accurately describe and demonstrate knowledge of Ford automotive system operations and interrelationships.
- Diagnose and repair Ford automotive system problems 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-111	Engine Diagnosis and Repair	2
AUTO-111L	Engine Diagnosis and Repair Laboratory	1
AUTO-111T	Engine Diagnosis and Repair Assessment Test Out	0.5
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-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-143	Steering and Suspension Diagnosis and Repair	1
AUTO-143L	Steering and Suspension Diagnosis and Repair Laboratory	1
AUTO-143T	Steering and Suspension Diagnosis and Repair Assessment Test Out	0.5
AUTO-144	Noise, Vibration, and Harshness	0.5
AUTO-144L	Noise, Vibration, and Harshness Laboratory	1
AUTO-144T	Noise, Vibration, and Harshness Assessment Test Out	0.5
AUTO-151	Brake System Diagnosis and Repair	2
AUTO-151L	Brake System Diagnosis and Repair Laboratory	1
AUTO-151T	Brake System Diagnosis and Repair Assessment Test Out	0.5
AUTO-153	Advanced Brake System Diagnosis and Repair	2
AUTO-153L	Advanced Brake System Diagnosis and Repair Laboratory	1
AUTO-153T	Advanced Brake System 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-171	Climate Control System Diagnosis and Repair	1
AUTO-171L	Climate Control System Diagnosis and Repair Laboratory	1
AUTO-171T	Climate Control System Diagnosis and Repair Assessment Test Out	0.5
AUTO-181	Engine Performance I Ignition and Fuel Systems	2
AUTO-181L	Engine Performance I Ignition and Fuel Systems Laboratory	1
AUTO-181T	Engine Performance I Ignition and Fuel Systems Assessment Test Out	0.5
AUTO-183	Engine Performance II Intake Exhaust and Emission Systems	2
AUTO-183L	Engine Performance II Intake Exhaust Emission Systems Laboratory	1
AUTO-183T	Engine Performance II Intake Exhaust Emission Systems Assessment Test Out	0.5
AUTO-215	Ford ASSET-Work Experience ¹	12
Total Units		53

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

¹ Must be taken for a total of 12 units.