



# AUTOMOTIVE TECHNOLOGY (47.0604)

DIVISION: Technical Studies

DEPARTMENT: Transportation

## DIPLOMA/CERTIFICATE OPTIONS

- TCA – ENGINE REPAIR TECHNICIAN
- TCA – AUTOMATIC TRANSMISSION & TRANSAXLE TECHNICIAN
- TCA – MANUAL DRIVE TRAIN TECHNICIAN
- TCA – STEERING & SUSPENSION TECHNICIAN
- TCA – BRAKE TECHNICIAN
- TCA – ELECTRICAL TECHNICIAN
- TCA – HEATING & AIR CONDITIONING TECHNICIAN
- TCA – ENGINE PERFORMANCE TECHNICIAN
- CTS – ELECTRICAL TECHNICIAN
- CTS – POWER TRAIN TECHNICIAN
- CTS –ENGINE PERFORMANCE TECHNICIAN
- TD – AUTOMOTIVE TECHNICIAN

## CURRICULUM

Course No.	Course Title	Lecture	Lab	Total Credit Hrs.	Total Clock Hrs.
ORNT 1000	Freshman Seminar	1	0	1	15
AUTO 1100	General Engine Diagnosis & Repair	0	2	2	60
AUTO 1110	Cylinder Head & Valve Train Diagnosis & Repair	0	1	1	30
AUTO 1120	Engine Block Assembly Diagnosis & Repair	0	1	1	30
AUTO 1130	Lubrication & Cooling System Diagnosis & Repair	0	1	1	30
	<b>TCA – ENGINE REPAIR TECHNICIAN</b>			<b>6</b>	<b>165</b>
AUTO 1200	General Transmission & Transaxle Diagnosis	0	1	1	30
AUTO 1210	Transmission & Transaxle Maintenance	0	1	1	30
AUTO 1220	In Vehicle Repair	0	1	1	30
AUTO 1230	Off-Vehicle Transmission & Transaxle Repair I	0	1	1	30
AUTO 1240	Off-Vehicle Transmission & Transaxle Repair II	0	1	1	30
	<b>TCA – AUTOMATIC TRANSMISSION &amp; TRANSAXLE TECHNICIAN</b>			<b>5</b>	<b>150</b>
AUTO 1300	Drive Train & Clutch Diagnosis & Repair	0	1	1	30
AUTO 1310	Transmission & Transaxle Diagnosis & Repair	0	1	1	30
AUTO 1320	Drive & Half Shaft & Universal Joint Repair	0	1	1	30
AUTO 1330	Drive Axle Diagnosis & Repair	0	1	1	30
AUTO 1340	Four & All-Wheel Drive Diagnosis & Repair	0	1	1	30
	<b>TCA – MANUAL DRIVE TRAIN TECHNICIAN</b>			<b>5</b>	<b>150</b>
AUTO 1400	General Steering & Suspension Diagnosis	0	1	1	30
AUTO 1410	Steering System Diagnosis & Repair	0	1	1	30
AUTO 1420	Suspension Systems Diagnosis & Repair	0	1	1	30
AUTO 1430	Wheel Alignment Diagnosis & Repair	0	1	1	30

AUTO 1440	Wheel & Tire Diagnosis & Repair	0	1	1	30
	TCA – STEERING & SUSPENSION TECHNICIAN			5	150
AUTO 1500	Hydraulic Systems Diagnosis & Repair	0	1	1	30
AUTO 1510	Drum Brake Diagnosis & Repair	0	1	1	30
AUTO 1520	Disc Brake Diagnosis & Repair	0	1	1	30
AUTO 1530	Power Assist Diagnosis & Repair	0	1	1	30
AUTO 1540	Antilock & Traction Control Diagnosis & Repair	0	1	1	30
	TCA – BRAKE TECHNICIAN			5	150
AUTO 1600	General Electrical System Diagnosis	0	2	2	60
AUTO 1610	Battery Diagnosis & Repair	0	1	1	30
AUTO 1620	Starting Systems Diagnosis & Repair	0	2	2	60
AUTO 1630	Charging Systems Diagnosis & Repair	0	2	2	60
AUTO 1640	Lighting Systems, Gauges, Warning Devices, and Driver Information Diagnosis & Repair	0	1	1	30
AUTO 1650	Horn & Wiper/Washer Diagnosis & Repair	0	1	1	30
AUTO 1660	Electrical Accessories Diagnosis & Repair	0	1	1	30
	TCA – ELECTRICAL TECHNICIAN			10	300
AUTO 1700	HVAC System Diagnosis & Repair	0	1	1	30
AUTO 1710	Refrigeration System Component Diagnosis & Repair	0	1	1	30
AUTO 1720	Heating & Ventilation System Component Diagnosis & Repair	0	1	1	30
AUTO 1730	Operating Systems & Related Controls	0	1	1	30
AUTO 1740	Refrigerant Recovery, Recycling, and Handling	0	1	1	30
	TCA – HEATING & AIR CONDITIONING TECHNICIAN			5	150
AUTO 1800	General Engine Diagnosis	0	3	3	90
AUTO 1810	Computerized Engine Controls Diagnosis & Repair	0	3	3	90
AUTO 1820	Ignition Systems Diagnosis & Repair	0	2	2	60
AUTO 1830	Fuel, Air Induction, and Exhaust Systems	0	2	2	60
AUTO 1840	Emissions Systems Diagnosis & Repair	0	3	3	90
AUTO 1850	Engine Related Services	0	2	2	60
	TCA – ENGINE PERFORMANCE TECHNICIAN			15	450
JOBS 2450	Job Seeking Skills	2	0	2	30
CPTR 1000	Introduction to Computers	1	1	2	45
	TD – AUTOMOTIVE TECHNICIAN			60	1740

**CTS EXIT POINTS:**

	Total Credit Hrs.
Complete TCA ELECTRICAL TECHNICIAN and any <i>three</i> of the following TCAs:	10
TCA – ENGINE REPAIR TECHNICIAN	6
TCA – AUTOMATIC TRANSMISSION & TRANSAXLE TECHNICIAN	5
TCA – MANUAL DRIVE TRAIN TECHNICIAN	5
TCA – STEERING & SUSPENSION TECHNICIAN	5
TCA – BRAKE TECHNICIAN	5
TCA – HEATING & AIR CONDITIONING TECHNICIAN	5
CTS – ELECTRICAL TECHNICIAN	25

	<b>Total Credit Hrs.</b>
<b>Complete <i>five</i> of the following TCAs:</b>	
TCA – ENGINE REPAIR TECHNICIAN	<b>6</b>
TCA – AUTOMATIC TRANSMISSION & TRANSAXLE TECHNICIAN	<b>5</b>
TCA – MANUAL DRIVE TRAIN TECHNICIAN	<b>5</b>
TCA – STEERING & SUSPENSION TECHNICIAN	<b>5</b>
TCA – BRAKE TECHNICIAN	<b>5</b>
TCA – HEATING & AIR CONDITIONING TECHNICIAN	<b>5</b>
CTS – POWER TRAIN TECHNICIAN	<b>25</b>

	<b>Total Credit Hrs.</b>
<b>Complete the following TCAs:</b>	
TCA –ELECTRICAL TECHNICIAN	<b>10</b>
TCA – ENGINE PERFORMANCE TECHNICIAN	<b>15</b>
CTS –ENGINE PERFORMANCE TECHNICIAN	<b>25</b>