## **AUTOMOTIVE TECHNOLOGY**

Certificate of Achievement
Career/Technical (Major Code: 02871)

Designed to study all major vehicle systems, emphasizing on power train, chassis, and electrical systems. Completion of this program will prepare students for all 8 ASE technician certification, and employment as "General Repair Technicians" in independent, franchise, or new car dealerships.

## **Program Student Learning Outcome**

 The students will inspect diagnose and repair automotive components.

## **Gainful Employment**

The U.S. Department of Education requires colleges to disclose a variety of information for any financial aid eligible program that "prepares students for gainful employment in a recognized occupation."

Students who complete this program will have acquired the necessary analytical tools to successfully secure gainful employment in the field of study.

For more information regarding the data provided for this program and what it means to you as a student, please feel free to visit our SWC Gainful Employment website at: www.swccd.edu/gainfulemployment (http://www.swccd.edu/gainfulemployment/).

First Semester		Units	
AT 101	INTRODUCTION TO BASIC AUTOMOTIVE SERVICE	3	
AT 102	AUTOMOTIVE SCIENCE AND BASIC MECHANICS	3	
AT 109	AUTOMOTIVE BRAKING SYSTEMS	3	
AT 110	AUTOMOTIVE SUSPENSION, ALIGNMENT, AND STEERING	3	
	Units	12	
Second Semester			
AT 120	ENGINE PERFORMANCE I	3	
AT 130	AUTOMOTIVE BASIC ELECTRICAL SYSTEMS	3	
AT 131	AUTOMOTIVE HEATING, COOLING, AND AIR CONDITIONING	3	
AT 140	ENGINE REPAIR	3	
	Units	12	
Third Semester			
AT 220	ENGINE PERFORMANCE II	3	
AT 230	AUTOMOTIVE ADVANCED ELECTRICAL SYSTEMS	3	
AT 234	AUTOMATIC TRANSMISSIONS AND TRANSAXLES	3	
AT 236	MANUAL TRANSMISSION, TRANSAXLES, AND FINAL DRIVES	3	
AT 242	CLEAN AIR CAR	3	

	COMPUTERIZED ENGINE CONTROLS	
	Units	18
	Total Units	42
Code	Title	Units
Optional Cou	rsework: The following courses are not required	
	cate; however, students wishing to work in the	
Automotive 1 work experie		
AT 290	COOPERATIVE WORK EXPERIENCE IN AUTOMOTIVE TECHNOLOGY I	2
AT 291	COOPERATIVE WORK EXPERIENCE IN AUTOMOTIVE TECHNOLOGY II	2
AT 292	COOPERATIVE WORK EXPERIENCE IN AUTOMOTIVE TECHNOLOGY III	2
AT 293	COOPERATIVE WORK EXPERIENCE IN AUTOMOTIVE TECHNOLOGY IV	2
Code	Title	Units
ASE Certifica	ition Areas	
ASE Brakes C	ertification	
AT 109	AUTOMOTIVE BRAKING SYSTEMS	
•	ion Certification	
AT 110	AUTOMOTIVE SUSPENSION, ALIGNMENT, AND STEERING	
ASE Engine P	erformance Certification	
AT 120 & AT 220	ENGINE PERFORMANCE I and ENGINE PERFORMANCE II	
ASE Automot Certification	ive Heating, Cooling, and Air Conditioning	
AT 131	AUTOMOTIVE HEATING, COOLING, AND AIR CONDITIONING	
ASE Electrica	l Systems Certification	
AT 130 & AT 230	AUTOMOTIVE BASIC ELECTRICAL SYSTEMS and AUTOMOTIVE ADVANCED ELECTRICAL SYSTEMS	
ASF Fnaine R	epair Certification	
AT 140	ENGINE REPAIR	
ASE Automot	ive Transmissions Certification	
AT 234	AUTOMATIC TRANSMISSIONS AND TRANSAXLES	
ASE Manual 7	Fransmissions Certification	
AT 236	MANUAL TRANSMISSION, TRANSAXLES, AND FINAL DRIVES	
areas: Clean	of Course Achievement are offered in the following Air Car—AT 242 and Automotive Emission Systems of Engine Controls—AT 247.	and