



DIVISION OF CAREER & TECHNICAL EDUCATION

# ADVANCED ENGINE PERFORMANCE

ASSOCIATE OF SCIENCE DEGREE

The courses listed in the Associate of Science Degree are comprised of a comprehensive list of job skills needed to work in the specialized field of Automotive Advanced Engine Performance Diagnostics. The skills developed during lecture and lab will enhance the student's ability to complete the industry-recognized Automotive Service Excellence (ASE) Certification Tests A6 (Electrical/Electronic Systems), A8 (Engine Performance), and L1 (Advanced Engine Performance). The degree is designed to prepare an individual for transfer and/or entry-level employment as an Automotive Engine Performance Diagnostic Technician.

To acquire the **Associate of Science Degree in Advanced Engine Performance**, students must complete the required major courses below with a grade of "C" or better along with one of the following:

- RHC GE and Proficiency requirements
- CSU GE (California State University General Education Breadth)
- IGETC (Intersegmental General Education Transfer Curriculum)

Required Courses		Units	N	IP	C
<b>AUTO 065</b>	Smog Technician Diagnostic and Repair Procedures	<b>3</b>			
<b>AUTO 106</b>	Automotive Electrical Tools and Diagnostic Procedures	<b>3</b>			
<b>AUTO 110</b>	*Introduction to Engine Diagnosis and Tune-Up	<b>3</b>			
<b>AUTO 120</b>	*Engine Tune-Up/Performance	<b>4</b>			
<b>AUTO 130</b>	Level-I Smog Technician Training Course: Engine and Emission Control Fundamentals	<b>3</b>			
<b>AUTO 135</b>	Level-II Smog Technician Training Course: Smog Check Inspection Procedures	<b>3</b>			
<b>AUTO 155</b>	*Automotive On-Board Diagnostics Generations One and Two (OBD I and OBD II)	<b>3</b>			
<b>AUTO 157</b>	*Automotive Specialized Electronics Training	<b>4</b>			
<b><i>In addition, students must complete TWO of the following:</i></b>					
<b>AUTO 115</b>	*Computerized Engine Controls and Diagnostics	<b>3</b>			
<b>AUTO 150</b>	*Engine Electrical Systems	<b>4</b>			
<b>AUTO 180</b>	*Advanced Automotive Diagnostic Procedures and Practices	<b>3</b>			
<b>AUTO 256</b>	*Automotive Scantools and Vehicle Network Systems	<b>3</b>			
<b>Total major units needed for Associate of Science</b>		<b>32 - 33</b>			
Units Completed					
*Prerequisite/Corequisite					