

**Automotive Technology -
Diagnostic Specialist Emphasis**

REQUIRED CREDITS: **34**

DEGREE CODE: **AUTODIAGCT**

PROGRAM DESCRIPTION

This Certificate program prepares students for entry level careers as engine performance diagnostic technicians. Completion will prepare the student to be knowledgeable and proficient in safe operational procedures, use of hand and power tools, and use of lab and advanced diagnostic equipment including DVOM's, scan tools, digital storage oscilloscopes, electronic service information, as well as having a basic knowledge of the automotive industry as a whole. Students will perform diagnosis and repair of electrical systems including battery, starting and charging; engine related service procedures, driveability diagnosis, and diagnosis of vehicle computer network systems and body control computers. Student will be knowledgeable in alternative fueled vehicle service techniques as related to the driveability area. Students will also be prepared to obtain a State of Nevada Class 1G smog inspector license.

STUDENT LEARNING OUTCOMES

- The student will understand, identify and implement safe working procedures.
- The student will obtain a Nevada Class 1G smog certification.
- The student will successfully pass the ASE/NATEF End of Program (EOP) exams or the ASE Certification exams in the following areas: Electrical, Engine Repair, Engine Performance.

PLEASE NOTE - The courses listed below may require a prerequisite or corequisite. Read course descriptions before registering for classes. All MATH and ENG courses numbered 01-99 must be completed before reaching 30 total college-level credits. No course under 100-level counts toward degree completion.

GENERAL EDUCATION REQUIREMENTS (3 CREDITS)

	CR	SEMESTER
COMMUNICATIONS BUS 108; COM 101, 102, 215; ENG 100, 101, 102, 107, 113, 114, 205; JOUR 102; THTR 105	3-5	_____

SPECIAL PROGRAM REQUIREMENTS (31 CREDITS)

	CR	SEMESTER
AUTO 105B Automotive Maintenance I	4	_____
AUTO 115B Automotive Electricity and Electronics I	4	_____
AUTO 117B Advanced Automotive Electronics	4	_____
AUTO 136B Engine Repair	5	_____
AUTO 225B Engine Performance I/Fuel and Ignition	4	_____
AUTO 227B Engine Performance II/Emission Control	4	_____
AUTO 235B Engine Performance III/Diagnostics	4	_____
AUTO 240B Nevada 1G Emission Inspection Preparation	2	_____

Computation included in AUTO 115B
Human Relations included in AUTO 115B

- NOTE**
- Course numbers with the “B” suffix may be non-transferable for a NSHE baccalaureate degree.
 - Course numbers with the “H” suffix are designated Honors-level courses and can be used to fulfill equivalent general education requirements. For more information visit www.csn.edu/honors.
 - In no case, may one course be used to meet more than one requirement except for the Values and Diversity general education requirement (only AA, AS, and AB degrees) which may be used to fulfill the corresponding general education or emphasis requirement.
 - Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.



CERTIFICATE OF ACHIEVEMENT

2015-2016

AUTOMOTIVE TECHNOLOGY – DIAGNOSTIC SPECIALIST EMPHASIS

The following is a suggested pathway, or course sequence by term, for this academic program. The following factors may affect the time it takes to complete the pathway as listed:

- The term (fall, spring, summer) in which the student enters the program because class availability varies by term.
- Where the student placed in the Math and English course sequence (i.e. taking courses below 100) and completion of course pre-requisites.
- Meeting with the student's designated program counselor or advisor to determine academic readiness to succeed in a particular course. Use of appropriate services (writing center, math resource center, etc.) may be in order to support successful course completion.

First Semester	Requirement	Credit Hours	Term
Gen. Ed. Communications Requirement	See degree sheet for course choices	3-5	
Special Program Requirements	AUTO 105B Automotive Maintenance I	4	
	AUTO 115B Automotive Electricity and Electronics I	4	
	AUTO 117B Advanced Automotive Electronics	4	
	Semester Total	15-17	
Second Semester	Requirement	Credit Hours	Term
Special Program Requirements	AUTO 136B Engine Repair	5	
	AUTO 240B Nevada 1G Emission Inspection Preparation	2	
	Semester Total	7	
Third Semester	Requirement	Credit Hours	Term
Special Program Requirements	AUTO 225B Engine Performance I/Fuel Ignition	4	
	AUTO 227B Engine Performance II/Emission Control	4	
	AUTO 235B Engine Performance III/Diagnostics	4	
	Semester Total	12	
	Pathway Course Total	34-36	
	Certificate Total	34	

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