

Automotive Technology – Diagnostic Specialist

CERTIFICATE OF ACHIEVEMENT (CoA)

REQUIRED CREDITS: 32

DEGREE CODE: AUTODIAGCT

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

- Understand, identify, and implement safe working procedures.
- Obtain a Nevada Class 1G smog certification.
- Prepare to take the following ASE/NATEF certification exams: ASE A1, ASE A6, and ASE A8

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)

COMMUNICATIONS (3-5 credits)

Recommended: COM 115 Applied Communication

SPECIAL PROGRAM REQUIREMENTS (29 CREDITS)

AUTO 105B Automotive Maintenance I	2
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

FULL-TIME STUDENT DEGREE PLAN

Plan can be modified to fit the needs of part-time students by adding more semesters.

FIRST SEMESTER	Credits
COM 115 Applied Communication	3
AUTO 105B Automotive Maintenance I	2
AUTO 115B Automotive Electricity and Electronics I ¹	4
AUTO 240B Nevada 1G Emission Inspection Preparation	2
TOTAL CREDITS	11

SECOND SEMESTER	Credits
AUTO 117B Advanced Automotive Electronics	4
AUTO 136B Engine Repair	5
TOTAL CREDITS	9

THIRD SEMESTER	Credits
AUTO 225B Engine Performance I/Fuel and Ignition	4
AUTO 227B Engine Performance II/Emissions Control ²	4
AUTO 235B Engine Performance III/Diagnostics	4
TOTAL CREDITS	12

DEGREE PLAN TOTAL CREDITS.....**32**

¹Prerequisite AUTO 105B. Contact the department of Applied Technologies for permission to complete this class in this semester.

²Prerequisite AUTO 225B. Contact the department of Applied Technologies for permission to complete this class in this semester.

- 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.

