

Automotive Technology – Heavy-Line Specialist

CERTIFICATE OF ACHIEVEMENT (CoA)

REQUIRED CREDITS: 31

DEGREE CODE: AUTOHVYLCT

DESCRIPTION

This program prepares students for entry level careers as heavy-line repair technicians. Students completing this Certificate will be able to diagnose, remove, disassemble, repair and/or replace and reassemble manual and automatic transmissions, transaxles, differential, clutches, transfer, and axle units. Additionally, students will be able to perform engine mechanical diagnosis, disassembly/reassembly, and other engine related heavy service. Students will be knowledgeable and proficient in safe operating procedures in the lab, in the use of hand and power tools, DVOM's, scan tools, electronic service information systems, and in general knowledge of automotive industry.

STUDENT LEARNING OUTCOMES

- Understand, identify, and implement safe working procedures and successfully pass the SP/2 examinations.
- Prepare to take the following ASE/NATEF certification exams: ASE A1, ASE A2, ASE A3, and ASE A6.

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 (28 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 205B Manual Drivetrain and Axles	4
AUTO 216B Automatic Transmissions	5
AUTO 245B Powertrain Removal and Replacement	4

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 ¹	4
AUTO 117B Advanced Automotive Electronics ²	4
TOTAL CREDITS	13
SECOND SEMESTER	Credits
AUTO 136B Engine Repair	5
AUTO 205B Manual Drivetrain/Axles	4
AUTO 216B Automatic Transmissions	5
TOTAL CREDITS	14
THIRD SEMESTER	Credits
AUTO 245B Power Train Removal/ Replacement	4
TOTAL CREDITS	4
DEGREE PLAN TOTAL CREDITS	31

¹Prerequisite AUTO 105B. Contact Department of Applied Technologies for permission to complete these courses in the same semester.

²Prerequisite AUTO 115B. Contact Department of Applied Technologies for permission to complete these courses in the same 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.

