

Automotive Technology - Master Technician

ASSOCIATE OF APPLIED SCIENCE DEGREE (AAS)

REQUIRED CREDITS: 74

DEGREE CODE: AUTOTMTAAS

DESCRIPTION

This degree program, one of the largest of its kind in the west, prepares students for lucrative careers as automotive technicians as well as related automotive occupations. Master Accredited by ASE/NATEF, instruction is provided on state-of-the-art equipment in both classrooms and labs. ASE Master Certified technicians provide all instruction, with the focus on understanding automotive systems operation and how to effectively and efficiently diagnose and service these systems. Additionally, emphasis is placed on preparing students to personally pass ASE certification exams.

STUDENT LEARNING OUTCOMES

- Apply diagnostic and repair routines as related to the eight major systems of the automobile.
- Prepare to take the following ASE/NATEF certification exams: ASE A1, ASE A2, ASE A3, ASE A4, ASE A5, ASE A6, ASE A7, and ASE A8.
- Use both printed and electronic repair information and service literature.
- Use both mechanical and PC based computerized diagnostic equipment.
- Interpret diagnostic and repair literature.

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 (22 CREDITS)

MATHEMATICS (3 credits)

Recommended: MATH 104B Applied Mathematics

ENGLISH COMPOSITION (3-5 credits)

Recommended: ENG 107 Technical Communications I

COMMUNICATIONS (3 credits)

Recommended: COM 115 Applied Communication

HUMAN RELATIONS (3 credits)

Recommended: ALS 101 College Success

NATURAL SCIENCE (3 credits)

Recommended: AST 101 General Astronomy

FINE ARTS/HUMANITIES/ SOCIAL SCIENCE (3 credits)

Recommended: COM 101 Oral Communication

U.S. AND NEVADA CONSTITUTIONS (4-6 credits)

Recommended: PSC 101 Introduction to American Politics

SPECIAL PROGRAM REQUIREMENTS (52 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 145B Automotive Brakes	4
AUTO 155B Steering and Suspension	4
AUTO 165B Automotive Heating and Air Conditioning	4
AUTO 205B Manual Drive Train and Axles	4
AUTO 216B Automatic Transmissions	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 245B Power Train Removal and Replacement	4

FULL-TIME STUDENT DEGREE PLAN

Add more semesters to modify this plan to fit part-time student needs.

FIRST SEMESTER	Credits
MATH 104B Applied Mathematics	3
ALS 101 College Success	3
AUTO 105B Automotive Maintenance	2
AUTO 115B Automotive Electricity and Electronics ¹	4
AUTO 117B Advanced Automotive Electronics ²	4
TOTAL CREDITS	16

SECOND SEMESTER	Credits
ENG 107 Technical Communications	3
AUTO 136B Automotive Engine Repair	5
AUTO 145B Automotive Brakes	4
AUTO 155B Automotive Steering and Suspension	4
TOTAL CREDITS	16

THIRD SEMESTER	Credits
COM 115 Applied Communication	3
AUTO 165B Automotive Heating and Air Conditioning	4
AUTO 205B Automotive Drivetrain and Axles	4
AUTO 216B Automotive Transmissions	5
TOTAL CREDITS	16

FOURTH SEMESTER	Credits
AST 101 General Astronomy	3
AUTO 225B Engine Performance I/ Fuel and Ignition	4
AUTO 227B Engine Performance II/Emission Control ³	4
AUTO 235B Engine Performance III/Diagnostics	4
TOTAL CREDITS	15

FIFTH SEMESTER	Credits
COM 101 Oral Communication	3
PSC 101 Introduction to American Politics	4
AUTO 245B Powertrain Removal and Replacement	4
TOTAL CREDITS	11

DEGREE PLAN TOTAL CREDITS.....**74**

¹Prerequisite AUTO 105B. Contact Department of Applied Technologies for permission to complete this course and its prerequisite in the same semester.

²Prerequisite AUTO 115B. Contact Department of Applied Technologies for permission to complete this course and its prerequisite in the same semester.

³Prerequisite of AUTO 225B. Contact Department of Applied Technologies for permission to complete this course and its prerequisite 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.

