NASHUA COMMUNITY COLLEGE

COURSE OUTLINE FORM

Course Title: ADVANCED AUTOMOTIVE ELECTRICITY AND ELECTRONICS			
Course Prefix & No.: AUTO115N	**Lecture Hours:** 2	**Lab Hours**: 3	**Credit Hours**: 3
Department: Transportation Technology			
Program: Automotive Technology			

Prerequisites/ Co-requisites:

AUTO113N

Required Accuplacer Score:

Entrance Skills:

A minimum of one year of high school Algebra I is recommended.
Basic skills in written English are required.
Basic reading skills are required.
Basic computer skills are required.
Students are expected to possess a good work ethic and a strong desire to learn.
A valid motor vehicle driver's license is required.

Catalog Description:

The course includes operating principles and troubleshooting of various systems, body computers, multiplexing, keyless entry, etc. Testing of sensors and circuits and On-board diagnostics related to these systems will be covered.

Course Competencies:

Course Outline:

Content Topic	Subtopics (a., b., etc.)
Introduction and Shop Safety	a. Battery safety b. Electrical safety c. Hybrid safety
Computer Fundamentals	a. Computer design and operation b. Input and output testing and operation c. Diagnostic procedures
Test Equipment	a. Oscilloscopes b.

Performance Evaluation:

Formative Assessments	Summative Assessments
1. Lab participation grade 2. Classroom participation 3. Quizzes 4. Midterm exam 5. Homework assignments, reading 6. Electude	1. Final exam 2. Lab practical exam

Method of Instruction:

1. Lecture and discussion
2. Required reading
3. Demonstration
4. Laboratory work