J. Sargent Reynolds Community College
Course Outline

Course Prefix and Number **AUT 249** **Credits** **5**

Course Title: **Advanced Automotive Diagnostics**

Course Description

Introduces advanced automotive electrical concepts, including theory and practical application. It provides instruction on diagnosing and repairing computer controlled modules, circuits, and systems. Covers advanced electronic principles, definitions of electronic terminology, computer networking, and how to use electronic test equipment. Provides preparation for the Automotive Service Excellence (ASE) A6 Electrical/Electronic Systems Certification examination. Lecture 2 hours. Laboratory 6 hours. Total 8 hours per week.

General Course Purpose:

This course provides instruction in advanced electrical diagnostic procedures. The focus will be on computer-controlled circuits along with electronics control unit (ECU) communication