

# Dakota County Technical College

## AUTM 2141: Advanced Automotive Electronic Systems

### A. COURSE DESCRIPTION

Credits: 5

Lecture Hours/Week: 1

Lab Hours/Week: 4

OJT Hours/Week: \*.\*

Prerequisites: None

Corequisites: None

MnTC Goals: None

This course covers advanced automotive electrical, electronic, and HVAC system diagnostic and repair procedures using various types of tools and test equipment and reference materials available in Alldata, Mitchell and student textbook. Prerequisite: Successful completion of AUTM2100 Basic Automotive Electricity, AUTM2110 Automotive Engine Electrical Systems, AUTM2115 Automotive Body Electrical Systems, and AUTM2136 Heating, Ventilation, and Air Conditioning with a minimum overall score of 70% OR concurrent enrollment in course 2960 Skill Development with instructor approval.

**B. COURSE EFFECTIVE DATES:** 06/01/2010 - Present

### C. OUTLINE OF MAJOR CONTENT AREAS

### D. LEARNING OUTCOMES (General)

1. Complete repair orders to include customer information vehicle identifying information, customer concern, related service history, cause, and correction
2. Identify and demonstrate industry recognized shop safety procedures
3. Identify and demonstrate proper use of various automotive tools and equipment
4. Locate and interpret vehicle and major component identification numbers
5. Research applicable vehicle and service information, vehicle service history, service

### E. Minnesota Transfer Curriculum Goal Area(s) and Competencies

None

### F. LEARNER OUTCOMES ASSESSMENT

As noted on course syllabus

### G. SPECIAL INFORMATION

None noted