

Date Prepared: 01/08/05

COURSE OUTLINE

New Revised

Effective Date: 6/1/88

1. **COURSE PREFIX NUMBER:** AUT 142 **CREDIT HOURS:** 4
2. **COURSE TITLE:** Power Train II
3. **PREREQUISITES:**
4. **COURSE DESCRIPTION:** Presents operation, design, construction and repair of power train components, standard and automatic transmission. Includes clutches, propeller shaft, universal joints, rear axle assemblies, fluid couplings, torque converters as well as 2, 3, and 4 speed standard, overdrive and automatic transmissions. Lecture 3 hours. Laboratory 3 hours. Total 6 hours per week.
5. **CONTENT:** (Major Headings)
 - a. Hydraulic principles
 - b. Torque converters
 - c. Automatic transmission principles
 - d. Troubleshooting
 - e. Overhaul procedures
6. **GENERAL COURSE OBJECTIVES:**

Upon successful completion of the course, the student will have developed a

 - a. Thorough understanding of the purpose and operating principles of the automotive automatic transmission
 - b. Knowledge of defects and their cause and effects upon the automobile's operation
 - c. Working knowledge of troubleshooting methods
 - d. Working knowledge of repair and adjustment procedures to correct problems