



Division:	Industrial Technology	Area:	Automotive Engineering Technology
Course Number:	AUTO 105	Course Name:	Automotive Transmissions
Prerequisite:	None		
Corequisite:	None		
Hours Required:	Class: 30	Lab: 30	Credits: 3

Course Description/Purpose

This course covers the construction, operation and maintenance of standard and automatic transmissions and overdrive units. Troubleshooting, adjustment and maintenance of the various transmissions is covered in detail.

Major Units

- Gear Ratios and Torque Multiplication
- Differentials
- Manual Transmissions
- Automatic Transmissions

Educational/Course Outcomes

Student learning will be assessed by a variety of methods, including, but not limited to, quizzes and tests, journals, essays, papers, projects, laboratory/clinical exercises and examinations, presentations, simulations, portfolios, homework assignments, and instructor observations.

Cognitive Each student will be expected to *Identify/Recognize* . . .

- operation of a differential
- operation of a manual transmission
- operation of an automatic transmission

Performance Each student will be expected to *Demonstrate/Practice* . . .

- set up and adjust a differential
- calculate gear ratios and torque multiplication
- disassemble and reassemble a manual transmission
- disassemble and reassemble an automatic transmission

Attitudinal Each student will be expected to *Believe, Feel, Think* . . .

- shop safety

AUTO 105-1/04:DK:cs
Updated to 2006 Catalog 6/06