

# AMT 145 : Manual Drive Trains and Axles

**Credits:** 4

**Class Hours:** 8 lecture/lab

**Prerequisites:** "C" or higher in AMT 100.

**Description:** This course covers the theory and fundamental operating principles of the modern automotive drive trains and axles. Students learn maintenance and repair of C-V shafts, propeller shafts, clutch systems, standard transmissions, standard transaxles, all-wheel drive, four-wheel drive and final drive systems.

**Semester Offered:** Spring

**Course Student Learning Outcomes (CSLOs):**

1. Demonstrate an understanding of applicable theories of operation and principles of manual drive train and axle systems.
2. Demonstrate an understanding and comply with personal and environmental safety practices and observe all industry standards of safety.
3. Demonstrate the use of reference training materials, use of appropriate tools, testing and measuring equipment to diagnose, test, inspect, and perform needed repair/service on manual drive train and axles systems and components.