

AUT 203 : MANUAL DRIVE TRAINS II

Transcript title

Manual Drive Trains II

Credits

3

Grading mode

Standard letter grades

Total contact hours

70

Lecture hours

10

Lab hours

60

Prerequisites with concurrency

AUT 202.

Course Description

Second part of a manual transmission sequence. A study of standard transmission and the relationship to clutches, driveshafts, rear axle assembly, transaxle, shift controls and four-wheel drive components. Students will learn on college-owned components. The student will learn operating principles, diagnosis and approved repair procedures on manual transmissions and related power train components. Includes emphasis on diagnosis, service, and procedure to conform to current service manuals.

Course learning outcomes

1. Describe components related to the automotive transfer case, drive axles / drive shafts, and differentials.
2. Perform driveshaft and universal joint/constant velocity joint diagnosis and repair.
3. Perform rear axle and differential diagnosis and repair.
4. Perform four-wheel drive component diagnosis and repair.
5. Communicate technical information verbally and in writing.

Content outline

1. Clutches
2. Manual Transmissions and Transaxles
3. Drive Axle Shafts and CV Joints
4. Drive Shaft and CV Joint Service
5. Differentials
6. Four-Wheel Drive and All-Wheel Drive

Required materials

Requires textbook and special gear, see syllabus for details.