

Administrative Master Syllabus

Course Information

Course Title	Automotive Drive Train and Axles		
Course Prefix, Num. and Title	AUMT 2413		
Division	Vocational Science		
Department	Automotive Technology		
Course Type	WECM Course		
Course Catalog Description	A study of automotive clutches, clutch operation devices, manual transmissions/transaxles, and differentials, with emphasis on the diagnosis and repair. May be taught with manufacturer specific instructions.		
Pre-Requisites	Credit for or concurrent enrollment in AUMT 1301		
Co-Requisites	AUMT 1310, AUMT 2425, and AUMT 2434		

Semester Credit Hours

Total Semester Credit Hours (SCH): Lecture Hours:	4:3:4
Lab/Other Hours	
Equated Pay Hours	5
Lab/Other Hours Breakdown: Lab Hours	4
Lab/Other Hours Breakdown: Clinical Hours	Enter Clinical Hours Here.
Lab/Other Hours Breakdown: Practicum Hours	Enter Practicum Hours Here.
Other Hours Breakdown	List Total Lab/Other Hours Here.

Approval Signatures

Title	Signature	Date
Prepared by:		
Department Head:		
Division Chair:		
Dean/VPI:		
Approved by CIR:		

Additional Course Information

Topical Outline: Each offering of this course must include the following topics (be sure to include information regarding lab, practicum, and clinical or other non-lecture instruction).

Drivetrain Theory Clutches Manual Transmissions and Transaxles Drive Train and Universal Joints Differentials and Drive Axles Four-Wheel-Drive Systems Drivetrain Electrical and Electronic Systems

Course Learning Outcomes:

Learning Outcomes – Upon successful completion of this course, students will:

- 1. Utilize appropriate safety procedures.
- 2. Diagnose and repair drivelines, clutches, manual transmissions/transaxles, and differentials.
- 3. Service constant velocity joints and universal joints.

Methods of Assessment:

- 1. Quizzes and assignments Completion of priority 1,2, and 3 items on the ASE task list, job sheets.
- 2. Quizzes and assignments Completion of priority 1, 2, and 3 items on the ASE task list, job sheets.
- 3. Quizzes and assignments Completion of priority 1, 2, and 3 items on the ASE task list, job sheets.

Required text(s), optional text(s) and/or materials to be supplied by the student:

CDX Online e Textbook. & Fundamentals of Automotive Technology CDX Automotive Jones & Bartlett Learning textbook.

Complete set of tools in compliance with the tool list.

Suggested Course Maximum:

24

List any specific or physical requirements beyond a typical classroom required to teach the

course.

Complete auto shop lab with all the tools required by ASE to meet the standards for Automotive Manual Transmission/Transaxle Certification.

Course Requirements/Grading System: Describe any course specific requirements such as research papers or reading assignments and the generalized grading format for the course.

90%to 100% = A 80%to 89% = B 70%to79% = C 60%to 69% = D

Version: 3/20/2019

Below60% = F

The grade is based on the percentage basis between lecture and lab.

Quizzes and assignments will count 30% of the course grade. At the end of the course a final exam will be given that will count 10% of the course grade. The auto shop lab grade will count 60% of the course grade.

Lab work will be evaluated on attendance, percentage completion of priority 1, 2, and 3 items on the ASE task list, job sheets, having the required tools to perform lab work, cleanliness, and attitude.

Curriculum Checklist:

□ Administrative General Education Course (from ACGM, but not in WCJC Core) – No additional documents needed.

 \Box Administrative WCJC Core Course. Attach the Core Curriculum Review Forms

□Critical Thinking

Communication

Empirical & Quantitative Skills

□Teamwork

□Social Responsibility

□ Personal Responsibility

WECM Course -If needed, revise the Program SCANS Matrix and Competencies Checklist