

# SYLLABUS

COURSE # AND TITLE ASEP 172 GM Auto. Trans # OF CREDITS 6

## CATALOG DESCRIPTION

The operating principles of GM automatic transmissions, transaxles, and their diagnosis, electrical and electronic controls, and repair will be covered. Instruction on noise, vibration and harshness diagnosis and correction will also be covered along with mechanical and hydraulic components. Safety is emphasized. Corequisites: ASEP-175. Offered: Fall. **ASEP-175** Semester Offered: Fall

Prerequisites: ASEP 160

### **Common Student Learning Outcomes**

*Upon successful completion of San Juan College programs and degrees, the student will demonstrate competency in...*

#### **BROAD AND SPECIALIZED LEARNING**

Students will actively and independently acquire, apply, and adapt skills and knowledge with an awareness of global contexts.

#### **CRITICAL THINKING**

Students will think analytically and creatively to explore ideas, make connections, draw conclusions and solve problems.

#### **CULTURAL AND CIVIC ENGAGEMENT**

Students will act purposefully, reflectively, and ethically in diverse and complex environments.

#### **EFFECTIVE COMMUNICATION**

Students will exchange ideas and information with clarity in multiple contexts.

#### **INFORMATION LITERACY**

Students will be able to recognize when information is needed and have the ability to locate, evaluate, and use it effectively.

#### **INTEGRATING TECHNOLOGIES**

Students will demonstrate fluency in the application and use of technologies in multiple contexts.

*Student work from this class may be randomly selected and used anonymously for assessment of course, program,*

## GENERAL LEARNING OBJECTIVES

1. To prepare the student with job entry level qualifications in power trains.
2. Completion of 100% of NATEF priority 1 tasks.
3. Completion of 85% of NATEF priority 2 tasks.
4. Completion of 75% of NATEF priority 1 tasks.

## SPECIFIC LEARNING OUTCOMES

Upon successful completion of the course, the student will be able to...

1. Demonstrate safe techniques for working on automatic transmissions, as well as transaxles.
2. Disassemble front drive axles.
3. Diagnose transfer cases malfunctions.
4. Measure flex-plate run-out.
5. Diagnose and repair automatic transmission malfunctions.
6. Pressure test automatic transmissions.
7. Adjust automatic transmission linkage.
8. Read and interpret power flow charts.
9. Service automatic transmissions in vehicle.
10. Test electrical transmission controls.
11. Remove and replace automatic transmissions.

12. Overhaul various automatic transmissions.

Syllabus developed by \_\_\_\_\_ Date: \_\_\_\_\_

Syllabus reviewed by \_\_\_\_\_ Date: \_\_\_\_\_

**A current syllabus must be on file in the dean's office for every course being taught during a given semester.**