

## **AUTE-116-AUTO TRANSMISSION & TRANSAXLES 6 CREDITS**

### **SYLLABUS**

---

#### **CATALOG DESCRIPTION**

The operating principles of automatic transmissions, diagnosis, and repair will be covered. Safety is emphasized.

Corequisites: AUTE-115

Semester Offered: Spring

#### ***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, and/or institutional learning outcomes. For more information, please refer to the Dean of the appropriate School.*

#### **Course Learning Outcomes**

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

1. To prepare the student with job entry skills in automatic transmissions and transaxles.
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 3 tasks.

## Specific Learning Outcomes

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

1. Demonstrate safe techniques for automatic transmissions and transaxles as defined by the vehicles manufacturer.
2. Diagnose and repair automatic transmission complaints such as no shift, late shift, no forward gears, no reverse or slipping.
3. Pressure test automatic transmissions as per the manufacturers' process.
4. Adjust automatic transmission linkage.
5. Read and interpret power flow charts.
6. Service automatic transmissions in vehicle.
7. Test electrical controls of torque converter clutch.
8. Remove and replace automatic transmissions and transaxles.
9. Overhaul various automatic transmissions' and transaxles.
10. Disassemble and reassemble front drive axles.
11. Diagnose and repair fluid leaks.