SAN JUAN COLLEGE
Success Matters

ASEP-135-GENERAL MOTORS VEHICLE NETWORKS 3 CREDITS

SYLLABUS

CATALOG DESCRIPTION

This course will explore the complex, on-board computer networks found on modern GM vehicles. The CAN network will be emphasized as will the proper techniques for isolating, diagnosing and repairing complex automotive computer networks. Safety will be emphasized.

Prerequisites: ASEP 120-125 Co-requisite ASEP-130/140

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.   Demonstrate the use of an oscilloscope while diagnosing vehicle networks.
2.   Diagnose electrical symptoms relating to faulty networking.
3.   Diagnose computer systems trouble codes.