SYLLABUS

COURSE # AND TITLE CAPP 130 Chrysler Fuel and Emission Systems
OF CREDITS 4

CATALOG DESCRIPTION
A study of the fuel and emission control systems used on current model DaimlerChrysler vehicles. Instruction will include diagnostic procedures on fuel injected engines. Students will learn to use an exhaust gas analyzer, oscilloscopes, and other special test equipment. Co-requisite: CAPP 140.

Semester Offered: Spring
Prerequisites: CAPP 120

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

GENERAL LEARNING OBJECTIVES
1. To prepare the student for diagnoses and repair of fuel and emission control systems.
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 servicing fuel systems.
2. Identify the six systems of a carburetor.
3. Test the fuel delivery system. (Mechanical and electrical)
4. Diagnose & replace fuel regulation components.
5. Diagnose and repair an exhaust gas recirculation system.
6. Diagnose and repair an evaporative emission system.
7. Diagnose and repair an inlet air management system.
8. Diagnose and repair an early fuel evaporation system.
9. Diagnose and repair an air injector system.
10. Test for water and alcohol in gasoline and perform a Reid Vapor pressure test.
11. Use exhaust gas analyzers to check emissions on a vehicle.

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.