

**DISL-211 DIESEL FUEL SYSTEMS**      4 CREDITS

**SYLLABUS**

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**CATALOG DESCRIPTION**

Theory and operation of various fuel supply and high-pressure injection systems on diesel powered equipment. Systems and component covered include hydro-mechanical and electronic PLN, EUI, hydro-mechanical and electronic injector nozzles, Common Rail, and Amplified Common Rail. Safety will be strictly enforced. A Grade of "C" or better must be earned to receive credit for this course.

Prerequisites: DISL 110 and DISL 115

Semester Offered: Fall

***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. Explain diesel fuel, its advantages, disadvantages, and history.

2. Enable the student to correctly identify and explain the operation of various diesel fuel injection systems to identify the correct diagnostic procedures to repair a malfunctioning diesel fuel system.