

**DRFT-248 CIVIL DRAFTING I     4 CREDITS****SYLLABUS**

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**CATALOG DESCRIPTION**

Advanced instruction in common techniques specific to the civil drafting environment such as horizontal alignments and profiles, earthwork and GIS.

Prerequisites: DRFT 150 and completion of Math 096

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. To develop understanding of the uses of various types of maps and drawings related to civil drafting.
2. To understand the use of symbols pertaining to civil drawing and map drafting.
3. To learn the techniques involved in the production of civil drawing and maps.

4. To prepare maps and drawings relating to land development, site plans, road design, drainage systems, utilities, oil and gas, archaeology, geology and mining.