

DRFT-120 DESCRIPTIVE GEOMETRY 3 CREDITS

SYLLABUS

CATALOG DESCRIPTION

The study of points, lines and planes and their spatial relationships. Problems in finding their true positions, lengths and shapes in space are solved by the principles of orthographic projection.

Prerequisites: None

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. Understand the use of orthographic projection for solving descriptive geometry problems.
- 2. Realize the ways of defining points, lines and planes in 3D space.
- 3. Understand the use of primary and secondary auxiliary views in descriptive geometry.
- 4. Recognize the spatial relationships that exist between points, lines and planes.

5.	Know the methods of expressing the slope, bearing, strike and dip of lines and planes as applicable.
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