



## SYLLABUS

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### CATALOG DESCRIPTION

A study of the basic techniques of drafting and the preparation of drawings using traditional drafting methods and CAD.

Prerequisites: Math-050 or appropriate Math Accuplacer score

Co requisites N/A

Semester Offered: Fall, 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.

##### **INTEGRATING TECHNOLOGIES**

Students will demonstrate fluency in the application and use of technologies, information, or resources 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 Assessment website ([www.sanjuancollege.edu/assessment](http://www.sanjuancollege.edu/assessment)).*

### COURSE LEARNING OUTCOMES

#### **General Learning Objectives**

1. Understand single-view, multi-view and pictorial sketching and drawing.
2. Learn the proper usage of common drafting equipment.
3. Examine graphical solutions to layout problems by using geometric construction.
4. Learn techniques for producing a properly scaled, annotated and dimensioned multi-view drawing in accordance with ANSI Y14.5 standards.

#### **Specific Learning Objectives:**

Upon successful completion of the course, the student will be able to...

1. Demonstrate sketching techniques used for creating straight lines, inclined lines, angles, arcs, circles and curved lines. (B,C,I,CC)
2. Produce single-view sketches and pictorial sketches. (B,C,I,CC)
3. Properly use the common pieces of drafting equipment. (C,CC)
4. Employ the two types of scales in constructing drawings. (E,I,CC)

5. Apply basic geometric construction techniques for solving problems. (C,E)
6. Employ proper lettering form and format. (E,I)
7. Use proper procedure and techniques in producing multi-view drawings. (B,C,E,I,CC)
8. Apply proper dimensioning in accordance with ANSI standards. (B,C,E,I,CC)

**STUDENTS MUST PROVIDE THE FOLLOWING ITEMS:**

1. Text
2. Arch & CE scale
3. 45 & 30/60 triangles

Syllabus developed by \_\_\_\_\_ Date: \_\_\_\_\_

Syllabus reviewed by \_\_\_\_\_ Date: \_\_\_\_\_