

**BLDT-120 CONSTRUCTION SAFETY 1 CREDIT**

**SYLLABUS**

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**CATALOG DESCRIPTION**

This course provides students with an introduction to construction safety, material handling, hand and power tools, reading a tape measure and construction math. Students will also gain an understanding of the skills and traits necessary to become an employable construction professional.

Prerequisites: None

Semester Offered: Fall and 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. Explain the idea of a safety culture and its importance in the construction industry.
2. Explain the causes of accidents and the impact of accident costs.

3. Define safe work procedures to use around falling, electrical, struck-by, and caught-in-between hazards.
4. Demonstrate the use and care of appropriate personal protective equipment (PPE).
5. Add, subtract, multiply, and divide whole numbers and fractions, with and without a calculator.
6. Use a measuring tape to measure, mark and cut material.
7. Recognize and safely use some of the basic hand and power tools used in the construction trade.
8. Visually inspect hand tools to determine if they are safe to use.
9. Explain how to maintain power tools properly.
10. Explain the role of an employee in the construction industry.
11. Recognize workplace issues such as sexual harassment, stress, and substance abuse.
12. Use equipment, recognize hazards and follow safety procedures required for materials handling.
13. Inspect, sort, and store material based on defect, wood characteristics, and type.

#### GENERAL LEARNING OBJECTIVES

1. To provide the student with an introduction to shop and jobsite safety and accident prevention.
2. To provide the student with basic procedures for hand and power tool use and material handling.