

## **NVCC COLLEGE-WIDE COURSE CONTENT SUMMARY**

### **BLD 110 – INTRODUCTION TO CONSTRUCTION (3 CR.)**

#### **COURSE DESCRIPTION**

Introduces use of tools and equipment, with emphasis on construction safety, including personal and tool safety. Provides a working introduction to basic blueprint reading and fundamentals of construction mathematics. Lecture 3 hours per week.

#### **GENERAL COURSE PURPOSE**

To provide student with the basic knowledge and requirements needed in the construction trades.

#### **ENTRY LEVEL COMPETENCIES**

None.

#### **COURSE OBJECTIVES**

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

- A. conduct himself in a safe and responsible manner, recognize warning symbols and hazard areas, know what to do if safety measures must be applied.
- A. recognize various hand tools, know how to properly handle tools, understand their functions.
- B. recognize basic power tools, know how to properly handle power tools, understand their function.
- C. read a tape measure, add, subtract, multiply and divide fractions and mixed numbers, convert decimals to fractions.
- D. use blueprints as a guide for building, recognize symbols and abbreviations, know how to scale drawings.

#### **MAJOR TOPICS TO BE COVERED**

- A. Earth moving materials and operations
- B. Excavation and lifting equipment and procedures
- C. Loading and hauling principles
- D. Foundation systems
- E. Concrete, wood, steel, and masonry construction
- F. Planning and scheduling
- G. Construction economics, accounting, and value engineering principles
- H. Contract construction
- I. Construction safety and health pertinent to horizontal construction
- J. Improving productivity