

---

## **BUILDING CONSTRUCTION**

### **BCN 1230, Materials and Methods Materials and Methods**

**3 hrs., 3 crs.,**

(Offered fall). A study of materials and methods used in commercial or private dwelling construction. Includes the use of wood, steel, and concrete in all phases of construction and a study of the fabrication of component units and their assembly at the construction site.

### **BCN 2405, Statics and Strength of Materials Statics and Strength of Materials**

**3 hrs., 3 crs.,**

(Offered spring). This course introduces students to basic concepts of statics and strength of basic materials, such as wood, concrete, and steel. The course covers the concepts of bodies at rest, shear, bending moments deflection, and moments of inertia. Students will master mathematical formulas for analyzing forces and reactions and will develop critical thinking skills necessary to understand structural behavior of building systems. Basic beam and column design will be used to illustrate the learned concepts.

### **BCN 2949, COOP/Work Experience/Buiding Construction COOP/Work Experience/Buiding Construction**

**1 hr., 1 cr.,**

1-3 crs. Cooperative Education courses may be taken toward completion of most of the Associate in Arts and Associate in Science degree programs. A maximum of six credit hours may be used in meeting the A.A. degree requirements. Prerequisite: Minimum of 2.0 GPA, meet with the co-op coordinator, and availability of co-op work experience slot. Supervised, practical work experience that seeks to combine theories and apply practical skills to projects in the student's major field of study. Requirements include online weekly, mid-term, and end-of-term reflection assignments.

---