

SYLLABUS

DIVISION: Business and Engineering Technology

REVISED: Spring 2014

CURRICULA IN WHICH COURSE IS TAUGHT: Building Trades

COURSE NUMBER AND TITLE: Bld 103 Principles of Residential Construction

CREDIT HOURS: 3 HOURS/WK LEC: 3 HOURS/WK LAB: 0 LEC/LAB COMB: 3

- I. **CATALOG DESCRIPTION:** .Introduces general principles of residential building including materials, foundations, framing, finishing, and building codes.
- II. **RELATIONSHIP OF THE COURSE TO CURRICULA OBJECTIVES:** To provide an orientation to residential construction and teach building techniques, materials used in construction and building codes.
- III. **REQUIRED BACKGROUND/PREREQUISITIES:** None
- IV. **COURSE CONTENT:**
 - A. Materials
 1. lumber
 - a. types
 - b. sizes and lengths
 2. plywood
 - a. grades
 - b. thicknesses
 - c. uses
 3. sheathing
 - a. types
 - b. uses
 4. housewrap
 - a. description
 - b. purpose
 5. building felt
 - a. description
 - b. purpose
 6. insulation
 - a. types
 - b. installation
 7. roofing
 - a. types
 - b. installation
 8. fasteners
 - a. nails
 - b. screws
 - c. clips
 - d. adhesives

- B. Footings
 - 1.types
 - 2.codes
- C. Foundations
 - 1.types
 - 2.codes
- D. Terminology

V. THE FOLLOWING GENERAL EDUCATION OBJECTIVES WILL BE ADDRESSED IN THIS COURSE (Place X by all that apply)

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| <input checked="" type="checkbox"/> Communications | <input type="checkbox"/> Cultural and Social Understanding |
| <input checked="" type="checkbox"/> Critical Thinking | <input checked="" type="checkbox"/> Quantitative Reasoning |
| <input checked="" type="checkbox"/> Personal Development | <input type="checkbox"/> Scientific Reasoning |
| <input type="checkbox"/> Information Literacy | |

VI. LEARNER OUTCOMES

VII. EVALUATION

Learner outcome <ul style="list-style-type: none"> • Understand construction terminology 	Evaluation method Written test Exam
Learner outcome <ul style="list-style-type: none"> • Identify materials used in construction 	Evaluation method In class assignments Written test Exam
Learner outcome <ul style="list-style-type: none"> • Apply building codes 	Evaluation method Written test Exam

