COURSE INFORMATION

Course prefix/No.:	**BCT 206**
Course Title:	**Roof Construction**
Lecture Hours/Week:	**1.0**
Lab Hours/Week:	**3.0**
Credit Hours/Semester	**2.0**

Distance Learning Attendance/VA Statement
Textbook Information

COURSE DESCRIPTION

This course is a continuation in a series of courses. The course is a study of roof systems and roofing materials for residential and light commercial construction.

COURSE COMPETENCIES

Upon successful completion of this course the student should be able to:

Module 1 - Scaffolds, Ladders and Sawhorses

- Erect and dismantle metal scaffolding in accordance with recommended safe procedures.
- Follow a recommended procedure to inspect a scaffold for safety.
- Describe the recommended capacities of various parts of a scaffold.
- Construct a scaffold work platform.
- Identify and describe the components of a fall protection system.
- Describe the safety concerns for mobile metal tubular scaffolds.
- Build safe staging area using roof brackets.
- Safely set up, use, and dismantle pump jack scaffolding.
- Describe the safe use of ladders, ladder jacks, stepladders, and sawhorses.

Module 2 - Roof Framing

- Describe roof types.
- Define the various roof framing terms.
- Identify the members of gable, gambrel, hip, intersecting, and shed roofs.
- Lay out a common rafter and erect a gable roof.
- Lay out and install gable end studs.
- Lay out a hip rafter and hip jack rafters.
- Lay out a valley rafter and valley jack rafters.
- Describe and perform the safe and proper procedure to erect a trussed roof.
- Apply roof sheathing.
- Estimate the quantities of materials used in a roof frame.

Module 3 - Roofing

- Define roofing terms.
- Describe and explain the uses of roofing felt underlayment, organic or fiber glass asphalt shingles, and roll roofing.
- Correctly install roofing felt underlayment, asphalt shingles and roll roofing.
- Correctly apply flashing to valleys, sidewalls, chimneys, and other roof obstructions.
- Estimate needed roofing materials for a job.

REQUIREMENTS

Attendance Policy
The college attendance policy stated in the college handbook will be honored.

Academic Honesty
Students are expected to adhere to the college policy regarding student conduct as stated in the college handbook.

Assignments
Students are expected to complete all assignments and any supplementary exercises designated by the instructor.

EVALUATION STRATEGIES/GRADING

Students must complete all modules, including assignments, projects, labs, and tests. Students must earn at least a "C" in order for the course to serve as a prerequisite and for the course to apply towards a certificate.

Grading Scale

A = 90-100
B = 80-89
C = 70-79
D = 60-69
F = 0-59

Evaluation Method

Tests/Projects (minimum of three total)	16.66% for each Module
Work Attitude*	8.32% for each Module
Lab	8.32% for each Module

33.3 X 3 module grades = 100% Final Grade

***Work Attitude is defined as:**

- Participation
- Cooperation
- Appearance
- Effort
- Safety
- Responsibility
- Professionalism
- Attendance
- Self Motivation
- Works Independently

ENTRY LEVEL SKILLS

The student must be able to read and solve basic mathematical equations.

PREREQUISITES

RDG 031 or equivalent, AET 103, BCT105, BCT112

CO-REQUISITES

None

METHODS OF INSTRUCTION

Lectures, reading assignments, projects, discussions, video presentations, multimedia presentations, and web content are the major teaching methods used in this course.

LAB EXERCISES

See addendum or instructor for additional details.

Disability Statement: Any student who feels s/he may need an accommodation based on the impact of a disability should contact the Special Resources Office (SRO) at 803-327-8007 in the 300 area of Student Services. The SRO coordinates reasonable accommodations for students with documented disabilities.

Effective Date: SP06