

**NEOSHO COUNTY COMMUNITY COLLEGE  
MASTER COURSE SYLLABUS**

**COURSE IDENTIFICATION**

Course Code/Number: CMCT 210

Course Title: Roofing & Exterior Finishing

Division:  Applied Science (AS)  Liberal Arts (LA)  Workforce Development (WD)  
 Health Care (HC)  Lifetime Learning (LL)  Nursing  Developmental

Credit Hour(s): Four (4)

Effective Date: FA2010/Fall2013

Assessment Goal Per Outcome: 70%

**COURSE DESCRIPTION**

The course covers the common materials used in residential and light commercial roofing, along with the safety practices and application methods for these materials. The course also includes shingles, roll roofing, shakes, tiles, metal, and membrane roofs, as well as the selection and installation of roof vents.

It also covers the various types of exterior siding used in residential construction and their installation procedures, including wood, metal, vinyl, and cement board siding.

**MINIMUM REQUIREMENTS/PREREQUISITES AND/OR COREQUISITES**

High school students must complete Tech I prior to enrollment in Construction Technology I and Lab.

**TEXTS**

The official list of textbooks and materials for this course is found on Inside NC.

<http://www.neosho.edu/ProspectiveStudents/Registration/CourseSyllabi.aspx>

## **GENERAL EDUCATION OUTCOMES**

1. Practice Responsible Citizenship through:
  - identifying rights and responsibilities of citizenship,
  - identifying how human values and perceptions affect and are affected by social diversity,
  - identifying and interpreting artistic expression.
2. Live a healthy lifestyle (physical, intellectual, social) through:
  - listing factors associated with a healthy lifestyle and lifetime fitness,
  - identifying the importance of lifetime learning,
  - demonstrating self-discipline, respect for others, and the ability to work collaboratively as a team.
3. Communicate effectively through:
  - developing effective written communication skills,
  - developing effective oral communication and listening skills.
4. Think analytically through:
  - utilizing quantitative information in problem solving,
  - utilizing the principles of systematic inquiry,
  - utilizing various information resources including technology for research and data collection.

## **COURSE OUTCOMES/COMPETENCIES (as Required)**

1. Demonstrate the ability to complete roofing applications. MODULE 27202-07 - ROOFING APPLICATIONS
  - a. Identify the materials and methods used in roofing.
  - b. Explain the safety requirements for roof jobs.
  - c. Install fiberglass shingles on gable and hip roofs.
  - d. Close up a valley using fiberglass shingles.
  - e. Explain how to make various roof projections watertight when using fiberglass shingles.
  - f. Complete the proper cuts and install the main and hip ridge caps using fiberglass shingles.
  - g. Lay out, cut, and install a cricket or saddle.
  - h. Install wood shingles and shakes on roofs.
  - i. Describe how to close up a valley using wood shingles and shakes.
  - j. Explain how to make roof projections watertight when using wood shakes and shingles.
  - k. Complete the cuts and install the main and hip ridge caps using wood shakes/shingles.
  - l. Demonstrate the techniques for installing other selected types of roofing materials.
2. Demonstrate the ability to finish exteriors. MODULE 27204-07 – EXTERIOR FINISHING
  - a. Describe the purpose of wall insulation and flashing.
  - b. Install selected common cornices.
  - c. Demonstrate lap and panel siding estimating methods.
  - d. Describe the types and applications of common wood siding.
  - e. Describe fiber-cement siding and its uses.
  - f. Describe the types and styles of vinyl and metal siding.
  - g. Describe the types and applications of stucco and masonry veneer finishes.
  - h. Describe the types and applications of special exterior finish systems.

- i. Install three types of siding commonly used in your area.

## **MINIMUM COURSE CONTENT**

The following topics must be included in this course. Additional topics may also be included.

- I. Roofing Application
- II. Exterior Finishing

## **STUDENT REQUIREMENTS AND METHOD OF EVALUATION**

### INSTRUCTIONAL METHODS

1. Lecture
2. Audio-Visual aids
3. Example and demonstration
4. Review of student applications
5. Class discussions
6. Field trips and guest speakers
7. Tests (written)
8. Skills tests (performance-based)

### STUDENT REQUIREMENTS

Evaluation of student performance is determined primarily from results of written and performance tests to validate mastery of course competencies. Due to the nature of the class, student participation, teamwork, courtesy, honesty, and adherence to safety policies are required. Students are required to take the 3<sup>rd</sup> party testing examination.

### GRADING SCALE

On objective materials, the following scale is used:

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

NCCER standards will be applied when accessing lab work. Students must meet NCCER levels of competence to pass the course.

## **ASSESSMENT OF STUDENT GAIN**

Students will be assessed through written testing. Practical application will be assessed on the first attempt at the skill and again at the conclusion of the course. Comparison will determine the extent of student gain.

## **Attendance Policy**

1. NCCC values interactive learning which promotes student engagement in the learning process. To be actively engaged, the student must be present in the learning environment.
2. Unless students are participating in a school activity or are excused by the instructor, they are expected to attend class. If a student's absences exceed one-eighth of the total course duration, (which equates to one hundred (100) minutes per credit hour in a face-to-face class) the instructor has the right, but is not required, to withdraw a student from the course. Once the student has been dropped for excessive absences, the registrar's office will send a letter to the student, stating that he or she has been dropped. A student may petition the chief academic officer for reinstatement by submitting a letter stating valid reasons for the absences within one week of the registrar's notification. If the student is reinstated into the class, the instructor and the registrar will be notified. Please refer to the Student Handbook/Academic Policies for more information
3. Absences that occur due to students participating in official college activities are excused except in those cases where outside bodies, such as the State Board of Nursing, have requirements for minimum class minutes for each student. Students who are excused will be given reasonable opportunity to make up any missed work or receive substitute assignments from the instructor and should not be penalized for the absence. Proper procedure should be followed in notifying faculty in advance of the student's planned participation in the event. Ultimately it is the student's responsibility to notify the instructor in advance of the planned absence.

## **ACADEMIC INTEGRITY**

NCCC expects every student to demonstrate ethical behavior with regard to academic pursuits. Academic integrity in coursework is a specific requirement. Definitions, examples, and possible consequences for violations of Academic Integrity, as well as the appeals process, can be found in the College Catalog, Student Handbook, and/or Code of Student Conduct and Discipline.

## **ELECTRONIC DEVICE POLICY**

Student cell phones and other personal electronic devices not being used for class activities must not be accessed during class times unless the instructor chooses to waive this policy.

### **NOTE:**

Information and statements in this document are subject to change at the discretion of NCCC. Students will be notified of changes and where to find the most current approved documents.

### **NOTE:**

If you are a student with a disability who may need accommodation(s) under the Americans with Disabilities Act (ADA), please notify [studentdevelopmentteam@neosho.edu](mailto:studentdevelopmentteam@neosho.edu), Chanute Campus, 620-431-2820, ext. 213., or Ottawa Campus, 785-242-2067 ext. 305, as soon as possible. You will need to bring

your documentation for review in order to determine reasonable accommodations, and then we can assist you in arranging any necessary accommodations.

## **COURSE NOTES**