COURSE IDENTIFICATION

Course Code/Number: CMCT 110

Course Title: Floors, Walls, & Ceiling Framing

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: Fall 2017

Assessment Goal Per Outcome: 70%

COURSE DESCRIPTION

This course covers framing basics as well as the procedures for laying out and constructing a wood floor using common lumber as well as engineered building material. It describes the procedures for laying out and framing walls and ceilings, including roughing-in door and window openings, constructing corners and partition Ts, bracing walls and ceilings, applying sheathing, and constructing concrete forms.

MINIMUM REQUIREMENTS/PREREQUISITES AND/OR COREQUISITES

None

TEXTS

 The official list of textbooks and materials for this course is found on *my*Neosho.

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 lay out and construct the flooring system. MODULE 27105-13 – FLOOR SYSTEMS

   a. Identify the different types of framing systems.
   b. Read and interpret drawings and specifications to determine floor system requirements.
   c. Identify floor and sill framing and support members.
   d. Name the methods used to fasten sills to the foundation.
   e. Given specific floor load and span data, select the proper girder/beam size from a list of available girders/beams.
   f. List and recognize different types of floor joists.
   g. Given specific floor load and span data, select the proper joist size from a list of available joists.
   h. List and recognize different types of bridging.
   i. List and recognize different types of flooring materials.
   j. Explain the purposes of subflooring and underlayment.
   k. Match selected fasteners used in floor framing to their correct uses.
   l. Estimate the amount of material needed to frame a floor assembly.
   m. Demonstrate the ability to:
      i. Lay out and construct a floor assembly
      ii. Install bridging
      iii. Install joists for a cantilever floor
      iv. Install a subfloor using butt-joint plywood/OSB panels
      v. Install a single floor system using tongue-and-groove plywood/OSB panels

2. Demonstrate the ability to layout and construct walls, ceiling and roof framing MODULE 27106-13 – WALL AND CEILING FRAMING

   a. Identify the components of a wall and ceiling layout.
   b. Describe the procedure for laying out a wood frame wall, including plates, corner posts, door and window openings, partition Ts, bracing, and firestops.

    c.   Describe the correct procedure for assembling and erecting an exterior wall.
    d.   Identify the common materials and methods used for installing sheathing on walls.
    e.   Lay out, assemble, erect, and brace exterior walls for a frame building.
    f.   Describe wall framing techniques used in masonry construction.
    g.   Explain the use of metal studs in wall framing.
    h.   Describe the correct procedure for laying out ceiling joists.
    j.   Cut and install ceiling joists on a wood frame building.
    k.   Estimate the materials required to frame walls and ceilings.

3. Demonstrate the ability to construct a concrete form with reinforcement MODULE 27303-13
    a.   Identify the properties of cement.
    b.   Describe the composition of concrete.
    c.   Perform volume estimates for concrete quantity requirements.
    d.   Identify types of concrete reinforcement materials and describe their uses.
    e.   Identify various types of footings and explain their uses.
    f.   Identify the parts of various types of forms.
    g.   Explain the safety procedures associated with the construction and use of concrete forms.
    h.   Erect, plumb, and brace a simple concrete form with reinforcement.

MINIMUM COURSE CONTENT

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

  I.   Review Safety
 II.   Floor systems
III.   Wall and ceiling framing

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 3rd party testing examination.

<u>GRADING SCALE</u>

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 assessing lab work.

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.

<u>Attendance Policy</u>

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.

ACCOMMODATIONS

If you are a student with a disability who may need accommodation(s), in compliance with Section 504 of the Rehabilitation Act of 1973 and the Americans with Disabilities Act (ADA) of 1990, please notify the Dean of Student Services in the Student Services Office, Sanders Hall, 620-432-0304, on the Chanute Campus, or the Dean for the Ottawa and Online Campuses, 785-248-2798, on the Ottawa Campus 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.

NON-DISCRIMINATION POLICY

The following link provides information related to the non-discrimination policy of NCCC, including persons with disabilities. Students are urged to review this policy.

http://www.neosho.edu/Departments/NonDiscrimination.aspx

SEXUAL MISCONDUCT POLICY (TITLE IX)

At NCCC, it is the responsibility of an instructor to help create a safe learning environment in the classroom, including both physical and virtual classrooms.   All instructors are considered mandatory reporters at NCCC, therefore any information regarding sexual misconduct that is shared by a student in one-on-one meetings with the instructor must be reported to appropriate personnel at the College. Instructors will keep the information private to the greatest extent possible, but it is not confidential. Generally, climate surveys, classroom writing assignments or discussions, human subjects research, or events such as Take Back the Night events do not provide notice that must be reported to the Coordinator by employees, unless the reporting party clearly indicates that they wish a report to be made.

The following link provides information related to the sexual misconduct policy of NCCC, including resources, reporting options, and student rights. Students are urged to review this policy.

http://www.neosho.edu/TitleIX.aspx

COURSE NOTES