**COURSE SYLLABUS**

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| **LAST REVIEW** | Fall 2022 |
| **COURSE TITLE** | Windows, Doors, & Stairs |
| **COURSE NUMBER** | CONS 0113 |
| **DIVISION** | Career and Technical Education |
| **DEPARTMENT** | CONS |
| **CIP CODE** | 46.0201 |
| **CREDIT HOURS** | 3 |
| **CONTACT HOURS/WEEK** | Class: 1 Lab: 4 Clinical: |
| **PREREQUISITES** | KBOR approved Core Curriculum. OSHA 10, Math Level 3 Recommended |

**COURSE DESCRIPTION**
This is the course in Drywall. It is in alignment with NCCER (selected modules) and the Kansas Board of Regents. The course topics include: Environmental sustainability, Orientation to the Trade, Construction Materials and Methods, Thermal and Moisture Protection, Drywall Installation, and Drywall Finishing.

**PROGRAM LEARNING OUTCOMES**

1. Demonstrate appropriate safety practices and procedures.
2. Demonstrate proper methods for building a structure using provided blueprints.
3. Demonstrate proper installation of windows, doors, and stairs.

**TEXTBOOKS**
http://kckccbookstore.com/

**METHODS OF INSTRUCTION**
A variety of instructional methods may be used depending on content area. These include but are not limited to: lecture, multimedia, cooperative/collaborative learning, labs and demonstrations, projects and presentations, speeches, debates, panels, conferencing, performances, and learning experiences outside the classroom. Methodology will be selected to best meet student needs.

**COURSE OUTLINE**
I. Hand and Power Tools (Core)
   A. Hand tools.
   B. Safety.
   C. General safety rules.
   D. General rules for properly maintaining power tools.
   E. Portable power tools.
   F. Using power tools in a safe manner.
II. Windows and Exterior Doors (Core)

A. Types of windows.
B. Parts of a window.
C. Proper window installation.
D. Pre-hung window.
E. Types of exterior doors.
F. Door installation.
G. Types of thresholds.
H. Pre-hung exterior doors.
I. Types of locksets.

III. Basic Stair Layout (Core)
A. Types of stairs.
B. Parts of stairs.
C. Materials used in stairs.
D. Construction drawings of stairs.
E. Risers and treads required.
F. Stringers, risers, and treads.

IV. Environmental Sustainability
A. Environmentally safe waste disposal.
B. Life cycle analysis.
C. Recycled material.
D. Low VOC emissions.
E. New “green” materials.
F. New “green” methods and practices.
G. “Low impact” designs.

COURSE LEARNING OUTCOMES AND COMPETENCIES
Upon successful completion of this course, the student will:

A. Identify and describe the types of hand and power tools, safety, and tool usage.
1. Identify the hand tools commonly used by carpenters and describe their uses.
2. Use hand tools in a safe and appropriate manner.
3. State the general safety rules for operating all power tools, regardless of type.
4. State the general rules for properly maintaining all power tools, regardless of type.
5. Identify the portable power tools commonly used by carpenters and describe their uses.
6. Use portable power tools in a safe and appropriate manner.

B. Identify and describe the types of windows and exterior doors, installation, and locksets.
7. Identify various types of fixed, sliding, and swinging windows.
8. Identify the parts of a window installation.
9. state the requirements for a proper window installation.
10. Install a pre-hung window.
11. Identify the common types of exterior doors and explain how they are constructed.
12. Identify the parts of a door installation.
13. Identify the types of thresholds used with exterior doors.
14. Install a pre-hung exterior door.
15. Identify the various types of locksets used on exterior doors and explain how they are installed.

16. Install a lockset.

C. Identify and describe basic stair layout, construction and materials.
   17. Identify the various types of stairs.
   18. Identify the various parts of stairs.
   19. Identify the materials used in the construction of stairs.
   20. Interpret construction drawings of stairs.
   21. Calculate the total rise, number and size of risers, and number and size of treads required for a stairway.
   22. Lay out and cut stringers, risers, and treads.
   23. Build a small stair unit with a temporary handrail.

D. Identify and describe sound environmental practices for carpentry including waste disposal, life cycle analysis, green practices and low impact.
   24. Describe waste disposal methods for this industry according to EPA and industry guidelines.
   25. Describe the process of life cycle analysis in this industry based on industry guidelines.
   26. Identify recycled materials by label and industry practice.
   27. Define “low emission” and give two examples.
   28. Identify new “green” materials now being introduced or currently used in this industry.
   29. Describe new “green” practices and methods being instituted or currently employed within this industry.
   30. Identify and explain the term “low Impact” as it relates to the environment.

**ASSESSMENT OF COURSE LEARNING OUTCOMES AND COMPETENCIES**

Student progress is evaluated through both formative and summative assessment methods. Specific details may be found in the instructor’s course information document.

**COLLEGE POLICIES AND PROCEDURES**

*Student Handbook*
https://www.kckcc.edu/files/docs/student-resources/student-handbook-and-code-of-conduct.pdf

*College Catalog*
https://www.kckcc.edu/academics/catalog/index.html

*College Policies and Statements*
https://www.kckcc.edu/about/policies-statements/index.html

*Accessibility and Accommodations*
https://www.kckcc.edu/academics/resources/student-accessibility-support-services/index.html.