

## SYLLABUS

<b>DATE OF LAST REVIEW:</b>	<b>02/2016</b>
<b>CIP CODE:</b>	46.0201
<b>SEMESTER:</b>	Departmental Syllabus
<b>COURSE TITLE:</b>	Windows, Doors, & Stairs
<b>COURSE NUMBER:</b>	BPMT 0113
<b>CREDIT HOURS:</b>	3
<b>INSTRUCTOR:</b>	Departmental Syllabus
<b>OFFICE LOCATION:</b>	Departmental Syllabus
<b>OFFICE HOURS:</b>	Departmental Syllabus
<b>TELEPHONE:</b>	Departmental Syllabus
<b>EMAIL:</b>	Departmental Syllabus <i>KCKCC-issued email accounts are the official means for electronically communicating with our students.</i>
<b>PREREQUISITES:</b>	OSHA 10, Math Level 3 Recommended.

**REQUIRED TEXT AND MATERIALS:** Please check with the KCKCC bookstore, <http://www.kckccbookstore.com> for the required text for your particular class.

**COURSE DESCRIPTION:** This course is the windows, doors, & stairs course. It is in alignment with NCCER and the Kansas Board of Regents. It is (in part) a component of the Core Curriculum for the KCKCC Construction Technology program and the KCKCC Building and Property Maintenance program. The course topics include: Environmental sustainability, Hand and Power Tools, Windows and Exterior Doors, and Basic Stair Layout.

**METHOD OF INSTRUCTION:** A variety of instructional methods may be used depending on content area. They may include but are not limited to lecture, multimedia, cooperative/collaborative learning, demonstrations, labs, on-the-job, internships, performance

tests, and other learning experiences outside the classroom. Methodology will be selected to best meet student needs.

## **COURSE OUTLINE:**

- I. MODULE 27103-06 – 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. MODULE 27109-06 – 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. MODULE 27110-06 – 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.

## **EXPECTED LEARNER OUTCOMES:**

- A. Module 27103-06 -The student will be able to identify and describe the types of hand and power tools, safety, and tool usage.

- B. Module 27109-06- The student will be able to identify and describe the types of windows and exterior doors, installation, and locksets.
- C. Module 27110-06- The student will be able to identify and describe basic stair layout, construction and materials.

### **COURSE COMPETENCIES:**

*Module 27103-06 -The student will be able to identify and describe the types of hand and power tools, safety, and tool usage.*

1. The student will be able to identify the hand tools commonly used by carpenters and describe their uses.
2. The student will be able to use hand tools in a safe and appropriate manner.
3. The student will be able to state the general safety rules for operating all power tools, regardless of type.
4. The student will be able to state the general rules for properly maintaining all power tools, regardless of type.
5. The student will be able to identify the portable power tools commonly used by carpenters and describe their uses.
6. The student will be able to use portable power tools in a safe and appropriate manner.

*Module 27109-06- The student will be able to identify and describe the types of windows and exterior doors, installation, and locksets.*

7. The student will be able to identify various types of fixed, sliding, and swinging windows.
8. The student will be able to identify the parts of a window installation.
9. The student will be able to state the requirements for a proper window installation.
10. The student will be able to install a pre-hung window.
11. The student will be able to identify the common types of exterior doors and explain how they are constructed.
12. The student will be able to identify the parts of a door installation.
13. The student will be able to identify the types of thresholds used with exterior doors.
14. The student will be able to install a pre-hung exterior door.
15. The student will be able to identify the various types of locksets used on exterior doors and explain how they are installed.
16. The student will be able to install a lockset.

*Module 27110-06- The student will be able to identify and describe basic stair layout, construction and materials.*

17. The student will be able to identify the various types of stairs.
18. The student will be able to identify the various parts of stairs.
19. The student will be able to identify the materials used in the construction of stairs.
20. The student will be able to interpret construction drawings of stairs.
21. The student will be able to calculate the total rise, number and size of risers, and number and size of treads required for a stairway.

22. The student will be able to lay out and cut stringers, risers, and treads.
23. The student will be able to build a small stair unit with a temporary handrail.

*The student will identify and describe sound environmental practices for carpentry including waste disposal, life cycle analysis, green practices and low impact.*

24. The student will be able to describe waste disposal methods for this industry according to EPA and industry guidelines.
25. The student will be able to describe the process of life cycle analysis in this industry based on industry guidelines.
26. The student will be able to identify recycled materials by label and industry practice.
27. The student will be able to define “low emission” and give two examples.
28. The student will be able to identify new “green” materials now being introduced or currently used in this industry.
29. The student will be able to describe new “green” practices and methods being instituted or currently employed within this industry.
30. The student will be able to identify and explain the term “low Impact” as it relates to the environment.

**ASSESSMENT OF LEARNER OUTCOMES:** Student progress is evaluated by means that include, but not limited to, exams, written assignments, performance tests, and class participation.

**SPECIAL NOTES:**

This syllabus is subject to change at the discretion of the instructor. Material included is intended to provide an outline of the course and rules that the instructor will adhere to in evaluating the student’s progress. However, this syllabus is not intended to be a legal contract. Questions regarding the syllabus are welcome any time.

Kansas City Kansas Community College is committed to an appreciation of diversity with respect for the differences among the diverse groups comprising our students, faculty, and staff that is free of bigotry and discrimination. Kansas City Kansas Community College is committed to providing a multicultural education and environment that reflects and respects diversity and that seeks to increase understanding.

Kansas City Kansas Community College offers equal educational opportunity to all students as well as serving as an equal opportunity employer for all personnel. Various laws, including Title IX of the Educational Amendments of 1972, require the college’s policy on non-discrimination be administered without regard to race, color, age, sex, religion, national origin, physical handicap, or veteran status and that such policy be made known.

Kansas City Kansas Community College complies with the Americans with Disabilities Act. If you need accommodations due to a documented disability, please contact the Director of the Academic Resource Center, in Rm. 3354 or call at: (913) 288-7670.