



CBM220 Cabinetmaking III Syllabus

Course Information

Credits	6
Campus	Washburn Tech
Address	5724 SW Huntoon
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Instructor Contact Information

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Description

Cabinetmaking III provides introduction in the assembly of cabinet components and emphasizing door and drawer assembly. Industry standards for safety, quality, and production will be goals in this course. Introduces procedures for the application of plastic, laminates, and wood veneers. Topics include door and drawer fabrication, laminate, veneer, and glue, cutting and fitting procedures, gluing procedures, trimming and edge banding, special tool use, safety precautions, and counter top cutting and assembly.

Textbooks

Modern Cabinetmaking (Provided by your instructor)

Student Learning Outcomes:

- A. Communicate effectively
- B. Integrate technology
- C. Learn effectively
- D. Demonstrate cooperative teamwork skills
- E. Apply safety in the workplace
- F. Think critically and creatively
- G. Demonstrate responsible work ethics

Competencies

1. Describe the imperial and metric systems of linear measurement.
2. Convert linear measurement from metric units to imperial units or from imperial units to metric units.
3. Describe methods of determining quantities and costs of lumber.
4. Determine the amount of material needed for a project.
5. Determine the most efficient layout to cut material.
6. Use geometry to solve wood product manufacturing problems.
7. Describe the concept of tallying.
8. Describe packing procedures for secondary wood products.
9. Describe shipping documents.
10. Use the alphabet of lines.
11. Describe the principles of orthographic projection.
12. Describe the isometric drawing.
13. Describe cabinet drawing.
14. Interpret dimension from drawings.
15. Identify standard lines used on drawings.
16. Identify pictorial drawings.
17. Identify standard metric dimension practices.
18. Extract information from technical drawings.
19. Describe general lockout procedures.
20. Describe correct safety procedures for using hand and power tools.
21. Describe shop safety equipment.
22. Describe safety committees.
23. Demonstrate basic first aid skills.
24. Describe and demonstrate techniques for lifting and moving objects.
25. Describe and demonstrate procedures for extinguishing small fires.
26. Describe common types of application software.
27. Use applications software.
28. Describe a number of software application in the area of wood product manufacturing.
29. Describe the use of computer in the wood processing industry.
30. Describe the key components in the maximization of resources.
31. Identify wood product manufacturing standards.
32. Describe the history of the carpentry trade.
33. Explain the importance of safety in the construction industry.
34. Identify the various types of building material and their uses.
35. State the uses of various types of hardwoods and softwoods.
36. Identify the different grades and markings of wood building materials.
37. Describe the proper method of storing and handling building materials.
38. State the uses of various types of engineered lumber.
39. Calculate the quantities of lumber and wood products using industry-standard methods.
40. Describe the fasteners, anchors, and adhesives used in construction work and explain their uses.
41. Identify the hand tools commonly used by carpenters and describe their uses.
42. Use hand tools in a safe and appropriate manner.
43. State the general safety rules for operating all power tools, regardless of type.
44. Identify the portable power tools commonly used by carpenters and describe their uses.
45. Use portable power tools in a safe and appropriate manner.

46. Describe the types of drawings usually included in a set of plans and list the information found on each type Recognize the common types of woods used to make cabinets.
47. Correctly and safely use stationary power tools.
48. Identify and cut the various types of joints used in cabinetmaking.
49. Build a cabinet from a set of drawings.
50. Install plastic laminate on a countertop core.
51. Identify various types of hinges and their uses.
52. Install various types of hinges.
53. Recognize the difference between commercial and residential construction drawings.
54. Identify the basic keys, abbreviations and other references contained in a set of commercial drawings.

Guidelines for Success

Assessment Plan

Assessment is an integral part of the educational process at Washburn Tech and accurate feedback is an important tool in continuously improving the institution's technical programs. Students can expect to participate in assessment activities prior to entry into programs, within specific courses and following program completion for specific fields of study.

Grading Rationale and Grading Scale

100% - 90% = A

89% - 80% = B

79% - 70% = C

69% - 0% = class must be retaken for credit towards certificate

25% - Attendance, Safety, Quality/Productivity, Team Work, Initiative & Energy, Problem Solving

75% - Daily Quizzes & Assignments, Performance Assessments (Individual Evaluations and Projects), NCCER Certification Exams, Mid-terms and Final Exams

It is possible to pass this course without gaining the NCCER certification. NCCER requires a pass/fail on all performance profiles and a minimum of 70% to pass exam for certification.

Attendance

Your course instructor recognizes the correlation between attendance and both student retention and achievement. Students must be enrolled before they can attend class. Students are expected to attend all class sessions and activities for which they are registered. Any class session or activity missed, regardless of cause, reduces the opportunity of learning and may adversely affect a student's achievement in the course.

A student who has to be absent because of jury duty or court-mandated appearance needs to contact the instructor in advance of the absence in order that a plan for making up work missed can be made. When observance of religious holidays of students' own faith interferes with attendance in class, class activities, examinations and official ceremonies; and with class work assignments, students are required to notify the instructor or other appropriate personnel within the department in advance of such absences.

Students are held responsible for material covered during their absences, with reasonable time provided to complete make-up assignments. The Instructor will devise a plan for making up work missed. When practical, major class assignments, major examinations and official ceremonies shall be scheduled on

other than major religious holidays. Students who believe they have been unreasonably denied educational benefits due to their religious beliefs or practices may seek redress through the student appeal procedures.

Disability

The Americans with Disabilities Act (ADA) Office is responsible for assisting in arranging accommodations and for identifying resources at Washburn Institute of Technology for persons with disabilities. Qualified students with disabilities MUST self-identify by completing an application. In addition students must provide appropriate medical documentation to the ADA coordinator to be eligible for accommodations. New requests for accommodations should be submitted at least two months or more prior to the date the accommodations are needed. However, please contact the ADA office as soon as a need may arise. Depending on the accommodation request, four to eight weeks lead time may be needed for timely and effective provision of accommodations.

The ADA Office coordinates and assists in arranging accommodations it deems appropriate for eligible students on a case-by-case basis. If you are a student with a disability that may substantially limit your ability to participate in any of our classes and you believe that you will need accommodations, it is your responsibility to contact: ADA Coordinator, Phone: 785.670.3365, Email: gloria.christian@washburn.edu.

Washburn University prohibits discrimination on the basis of race, color, religion, age, national origin, ancestry, disability, sex, sexual orientation, gender identity, genetic information, veteran status, or marital or parental status. The following person has been designated to handle inquiries regarding the non-discrimination policies: Dr. Pamela Foster, Equal Opportunity Director/Title IX Coordinator, Washburn University, 1700 SW College Ave, Topeka, Kansas 66621, 785.670.1509, eodirector@washburn.edu