



CBM120 Cabinetmaking I Syllabus

Course Information

Credits	6
Campus	Washburn Institute of Technology
Address	5724 SW Huntoon
City/State/Zip	Topeka, Kansas 66604
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Instructor Contact Information

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Description

Cabinetmaking I introduces the fundamentals of residential and commercial cabinet construction. Topics include fasteners, wood products, finishing materials, manufactured products for cabinet making, and introduction to estimation of products and services. Instruction is also provided in the planning, design, and layout of cabinet units. Topics include parts identification cabinet styles and floor plan arrangements, estimation procedures, layout to specifications, shop working sketches, scale mock-ups, drafting, blueprint, reading, furniture styles, and specifications.

Textbooks

Supplied by 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 machines used in basic lumber production.
2. Describe sawing and seasoning methods.
3. Describe the operation of a planer mill.
4. Describe basic primary and secondary breakdown.
5. Recognized the 12 most common species of trees used to make dimensional lumber.
6. Identify the used and handling characteristics of each of these species.
7. Identify natural defects in lumber.
8. Identify machining defects in lumber.
9. State the typical uses for standard softwood and hardwood lumber grades.
10. Describe appropriate ways for handling, storing and transporting materials in the woodworking shop and at the job site.
11. Describe standard grading rules for hardwood and softwood.
12. Describe the handling and storage of solid wood in the wood working shop.
13. Describe proper storage of framing and finish lumber at the job site and the shop.
14. Describe the structure and manufacturing of plywood panels.
15. Identify grades, standard sizes and thickness of plywood panels.
16. Describe wafer board, particle board, hardboard, fiberboard, overlaid plywood and panel products.
17. Identify plastic laminates.
18. Describe other types of panel products.
19. Describe safe procedures for handling and storing plywood and panel products.
20. Identify plastic laminates.
21. Define terms associated with the value-added movement.
22. Describe the manufacture of engineered wood products.
23. Describe the adding of value to wood fiber through resawing, edging, trimming and sorting.
24. Describe a wide variety of manufactured wood products.
25. Describe residual, engineered and other manufactured products.
26. Identify production waste products associated with the secondary wood industry.
27. Identify finishes, adhesives and other chemical solutions that might be a threat to workers and air quality.
28. Describe production by-products.
29. Describe the control of potentially hazardous products used in secondary wood processing.
30. Describe the types and uses of handsaws.
31. Describe the use and parts of bench and specialty planes.
32. Describe the uses of different chisels.
33. Describe the uses of drills and boring tools.
34. Describe the use of smoothing tools.
35. Correctly use woodworking hand tools.
36. Identify parts of a table saw.
37. Describe basic cutting techniques.
38. List safety precautions.
39. Identify routine maintenance procedures.
40. Identify blades used with table saws.

41. Identify the components of a table saw and state the function of each.
42. Describe operations performed with a table saw.
43. Describe circular saw blades.
44. Describe the basic maintenance and adjustment of a table saw.

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