



CBM225 Cabinetmaking IV Syllabus

Course Information

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| Credits | 7 |
| Campus | Washburn Institute of Technology |
| Address | 5724 SW Huntoon |
| City/State/Zip | Topeka, Kansas 66604 |
| Main Office | 785.670.2010 |
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Instructor Contact Information

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Description

Cabinetmaking IV provides further instruction in the assembly of base cabinets and wall cabinets. Industry standards for quality, safety, production assembly, back assembly, bracing, and joint assembly.

Textbooks

Modern Cabinetmaking (Provided by your course 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. Uses appropriate terminology in all phases of cabinet making.
- 2. Demonstrates appropriate accuracy in measurement and specified dimensions.
- 3. Able to use measuring tools and devices.

4. Able to set up machines to produce specified parts and assemblies.
5. Demonstrates the ability to make assemblies square.
6. Demonstrates the ability to use the squaring tools.
7. Demonstrates the ability to set up the machine to produce square parts.
8. Demonstrates an appropriate level of math skills.
9. Accurate in measurement of parts & assemblies.
10. Accurate in figuring materials.
11. Demonstrates the ability to estimate and/or specify appropriate materials needed to produce a product.
12. Demonstrates the ability to specify appropriate materials for use in the product.
13. Applies appropriate procedures for purchasing material.
14. Demonstrates a knowledge of appropriate dimensions for materials.
15. Demonstrates a knowledge of how to appropriately specify materials when purchasing.
16. Can appropriately analyze and identify sources of materials and supplies.
17. Demonstrates the ability to develop a cut list of parts to produce a product.
18. Demonstrates the ability to develop a plan of procedure.
19. Can develop a plan of procedure to build various cabinet assemblies.
20. Can develop a plan of procedure for shop operations.
21. State the classes and sizes of typical base and wall kitchen cabinets.
22. Identify cabinet components and hardware and describe their purposes.
23. Lay out factory-made cabinets, countertops, and backsplashes.
24. Recognize the common types of woods used to make cabinets.
25. Correctly and safely use stationary power tools.
26. Identify and cut the various types of joints used in cabinetmaking.
27. Build a cabinet from a set of drawings.
28. Install plastic laminate on a countertop core.
29. Know when and how to utilize biscuit joints and dowel joints.
30. Deliver and monitor a service to customers.
31. Work safely in the construction industry Work safely in the construction industry.
32. Prepare surfaces for finishing Prepare surfaces for finishing.
33. Apply surface coatings by spray gun Apply surface coatings by spray gun.
34. Use furniture making sector hand and power tools Use furniture making sector hand and power tools.
35. Assemble furnishing components Assemble furnishing components.
36. Select and apply hardware Select and apply hardware.
37. Fabricate custom furniture Fabricate custom furniture.
38. Prepare cutting list from plans and job specifications Prepare cutting list from plans and job specifications.
39. Measure and draw site layout for manufactured furniture products Measure and draw site layout for manufactured furniture products.
40. Set up, operate and maintain sawing machines Set up, operate and maintain sawing machines.
41. Set up, operate and maintain drilling machines Set up, operate and maintain drilling machines.
42. Set up, operate and maintain routing and shaping machines Set up, operate and maintain routing and shaping machines.
43. Set up, operate and maintain automated edge banding machines Set up, operate and maintain automated edge banding machines.
44. Construct jigs and fixtures.

45. Participate in environmentally sustainable work practices Participate in environmentally sustainable work practices.
46. Demonstrates awareness of safety procedures for others in the shop.
47. Reports all violations of safety rules and procedures.
48. Demonstrates an awareness of quality.
49. Demonstrates pride in work and workmanship.
50. Demands quality work and workmanship by others.
51. Demonstrates the ability to visualize.
52. Ability to design products with appropriate scales and/or proportion.
53. Ability to "mentally see" the finished product; both in its components and completed form before the product is actually produced and convey that information to others.
54. Ability to visualize appropriate machining process and decided upon an optimum plan of procedure.
55. Demonstrates the ability to organize.
56. Maintains neat and orderly work environment.
57. Maintains drawings and documents in an orderly manner.
58. Works within team structured activities.
59. Contributes to the team.
60. Develops teams to accomplish tasks.
61. Demonstrates the ability to communicate.
62. Utilizes sketching and appropriate drawing techniques.

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