

Fine Woodworking and Cabinet Making

PROGRAM DESCRIPTION



The Fine Woodworking and Cabinet Making program provides students with one- and two-year options tailored for differing occupational goals. Students will gain the knowledge and skills necessary to plan and complete cabinetry projects. Students choose courses in drafting, cabinet layout, estimating, cabinet-making, furniture, and millwork. Students apply their studies by building different types of cabinets in each year of their program. The Fine Woodworking and Cabinet Making program provides

the student with the knowledge and skills necessary to plan and complete cabinetry, furniture and millwork projects. Students learn to work with prints, specifications, and shop drawings. Emphasis is placed on selecting proper materials, determining the best procedures, manufacturing parts to specification, assembling, and finishing individual projects.

Students learn the fundamentals of working with wood in our well-equipped shop, from planning a project to adding the finishing details. From using traditional woodworking equipment and hand tools to the latest computer numerically controlled (CNC) machinery and software, students learn to plan and process wood in the most efficient manner. You will learn the setup and operation of wood working machinery and equipment, breakout of lumber and panel components, laminating, veneering, machining, sanding, assembly and finishing.



Successful graduates of this program will have the skills necessary to become employed in a variety of custom woodworking environments including cabinet shops, yacht building, architectural millwork, or furniture making. Beginning wages will vary depending on the shop at which the graduate is employed.

KEY LEARNING OBJECTIVES

Students who successfully complete the associate in applied science degree will be able to:

- Visualize, design, and prepare drawings and specifications for furniture and cabinets.
- Describe the grades and uses of materials commonly used in the trade, including lumber, veneer, particleboard, fiberboard, plastic laminates, adhesives, and abrasives.
- Explain how the structure of wood and its mechanical and physical properties relate to the quality and performance of wood projects.
- Produce high quality products by maintaining tolerances; using cut-off saws, jointer, planers, rip saws, edge-gluing equipment; and utilizing finish machining operations involving the use of a variety of stationary and portable equipment to Woodworking Career Alliance standards.
- Design, construct and use jigs and patterns for machining and assembly operations.
- Setup machine operation and identify the various tooling requirement for specific CNC machines.

PREREQUISITES

AAS Degree and Certificate: high school level Algebra I required. Algebra II, Geometry, Physics or Chemistry with Lab desired.

STILL IN HIGH SCHOOL? Concurrent enrollment agreements with many high schools and technical education centers are available. Information can be found on <http://www.emcc.edu/academics/programs/dual-enrollment/>.



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Trade & Technical Occupations
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FINE WOODWORKING AND CABINET MAKING

Associate in Applied Science Degree

FIRST SEMESTER	CREDITS
DTG 123 Drafting for Cabinet Making I	3
FWC 102 Basic Woodworking I	3
FWC 103 Basic Woodworking II	4
ENG 101 College Composition	3
MAT 113 Technical Mathematics I	3
SECOND SEMESTER	CREDITS
DTG 125 Drafting for Cabinet Making II	3
FWC 111 Woodworking	7
Restricted	
Elective Any Math or Science (100 level or higher)	3-4
Restricted	
Elective Any Humanities or Social Science (100 level or higher)	3
THIRD SEMESTER	CREDITS
DTG 225 Drafting for Cabinet Making III	3
FWC 201 Basic Cabinet Making and CNC	7
Restricted	
Elective Any Humanities or Social Science (100 level or higher)	3
FOURTH SEMESTER	CREDITS
FWC 211 Advanced Cabinet Making	7
ENG 215 Business and Technical Writing	3
Restricted	
Elective Any Communications, Humanities, Math, Science, or Social Science (100 level or higher)	3
Free	
Elective Any 100 level or higher course	3
TOTAL AAS DEGREE CREDITS	61-62

FINE WOODWORKING AND CABINET MAKING

Certificate

FIRST SEMESTER	CREDITS
DTG 123 Drafting for Cabinet Making I	3
FWC 102 Basic Woodworking I	3
FWC 103 Basic Woodworking II	4
ENG 101 College Composition	3
MAT 113 Technical Mathematics I	3
SECOND SEMESTER	CREDITS
DTG 125 Drafting for Cabinet Making II	3
FWC 111 Woodworking	7
Restricted	
Elective Any Communications, Humanities, Math, Science, or Social Science (100 level or higher)	3
Restricted	
Elective Any Humanities or Social Science (100 level or higher)	3
TOTAL CERTIFICATE CREDITS	32

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EMCC provides campus housing
for over 260 students.



EMCC's Student Success Center
offers tutoring services free of
charge to our students.



EMCC's Athletic Department
sponsors many on-
campus intramural
sports and
recreational events.

EMCC students enjoy small class
sizes, supportive faculty,
transferable courses and
leadership/engagement
opportunities all for under \$4,000
per year

(most programs, based on 30 credit
hours, in-state rate)

Campus tours are available.

Call 207-974-4857 or schedule an
appointment through our website.

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online, visit us on the web at

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