

# Finish Carpentry II

Career Cluster	Architecture and Construction
Course Code	17005
Prerequisite(s)	Cabinetry
Credit	.5-1
Program of Study and Sequence	Foundation Courses, Introduction to Architecture & Construction, Finish Carpentry I, Finish Carpentry II, Capstone Experience
Student Organization	SkillsUSA
Coordinating Work-Based Learning	Service Learning; Work Place Tours; Job Shadowing
Industry Certifications	OSHA 10-Hour Safety Certification
Dual Credit or Dual Enrollment	TBD
Teacher Certification	Architecture & Construction Cluster Endorsement; Construction Pathway Endorsement; Design & Pre-Construction Pathway Endorsement
Resources	

## Course Description:

This course prepares individuals to apply technical knowledge and skills to plan and estimate projects, as well as set up and operate industrial woodworking machinery. Students will use industrial machinery to design and fabricate casework (cabinetry) and architectural millwork. This course will cover safe use of hand and power tools and machinery used in the production of casework and millwork. A variety of projects will be designed and constructed. Students will apply proper finishing and explore proper installation techniques as part of this program.

## Program of Study Application

- Foundation courses
- Intro to architecture and construction (Recommended not required)
- Finish Carpentry I (prerequisite)
- Finish Carpentry II

- Capstone Experience

**Course Standards**

**Indicator # FCII 1 Demonstrate proper rules and regulations to comply with personal and shop safety.**

<i>Webb Level</i>	<i>Sub-indicator</i>	<i>Integrated Content</i>
One Apply	FCII 1.1 Apply hand/power/industrial tool and lab safety practices.	
Two Determine	FCII 1.2 Determine and wear appropriate personal protective equipment (PPE)	
One Comply	FCII 1.3 Comply with government regulations regarding health and safety in the shop.	

**Indicator # FCII 2 Evaluate the career market that surrounds the carpentry industry.**

<i>Webb Level</i>	<i>Sub-indicator</i>	<i>Integrated Content</i>
Three Acquire	2.1 Acquire residential, civil and commercial career information and demonstrate knowledge of the career-planning process	
Three Identify	2.2 Identify individual career goals in the carpentry industry.	
Three Develop	2.3 Enhance the development of employment readiness skills	

**Indicator # FCII 3 Utilize advanced math skills, formulas, and principles used in cabinetry.**

<i>Webb Level</i>	<i>Sub-indicator</i>	<i>Integrated Content</i>
Two Apply	FCII 3.1 Apply geometric formulas to determine areas of various structures.	

Two Apply	FCII 3.2 Apply appropriate formulas to determine percentages/decimals.	
Two Apply	FCII 3.3 Apply appropriate formulas to determine ratios, fractions, and proportion measures.	
Three Apply	FCII 3.4 Apply appropriate formulas to determine measurement of dimensions, spaces, and structures.	
Four Develop Conceptualize	FCII 3.5 Develop a model that shows the conceptual understanding of a three-dimensional form from a two-dimensional drawing.	
One Define	FCII 3.6 Define the X,Y,Z coordinates involved in common Computer numeric control (CNC) applications.	

**Indicator # FCII 4 Identify various materials and evaluate the proper application in project planning.**

<i>Webb Level</i>	<i>Sub-indicator</i>	<i>Integrated Content</i>
Three Differentiate	FCII 4.1 Differentiate various cabinetry materials and their appropriate applications.	
Two Identify	FCII 4.2 Identify the common grades of lumber and sheet goods.	
Two Describe	FCII 4.3 Describe and identify natural defects in woods	
One Utilize	FCII 4.4 Utilize proper storage and handling techniques	
Four Develop	FCII 4.5 Create a project plan, bill of materials, cut list and timeline.	

**Indicator # FCII 5 Demonstrate advanced skills and techniques used in industry.**

<i>Webb Level</i>	<i>Sub-indicator</i>	<i>Integrated Content</i>
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Two Determine	FCII 5.1 Determine plumb, level, and square.	
Two Determine	FCII 5.2 Demonstrate proper techniques used in various sawing, shaping, carving, molding, and routing applications.	
Three Apply Fabricate	FCII 5.3 Apply various fabricating techniques in casework and millwork.	
Three Differentiate	FCII 5.4 Differentiate between different styles in casements	

One Identify	FCII 5.5 Identify and create the basic wood and mechanical joints used in cabinetry.	
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**Indicator # FCII 6 Demonstrate the use of cabinet fasteners and hardware.**

<i>Webb Level</i>	<i>Sub-indicator</i>	<i>Integrated Content</i>
Two Determine	FCII 6.1 Determine proper application and use of mechanical fasteners and adhesives.	
Two Analyze	FCII 6.2 Analyze different hardware and their applications.	

**Indicator # FCII 7 Demonstrate proper assembly and finish preparation techniques.**

<i>Webb Level</i>	<i>Sub-indicator</i>	<i>Integrated Content</i>
Two Develop	FCII 7.1 Develop logical assembly process/procedure	
Two Demonstrate	FCII 7.2 Demonstrate various ways to remove excess adhesive Example: <ul style="list-style-type: none"> <li>• Sanding, chiseling, taping, etc.</li> </ul>	
Two Apply	FCII 7.3 Apply surface preparation skills before finishing Examples: <ul style="list-style-type: none"> <li>• Select proper abrasives and sanding equipment</li> <li>• Fillers</li> </ul>	

**Notes:**

**Indicator # FCII 8      Demonstrate the use of finishing materials and processes.**

<i>Webb Level</i>	<i>Sub-indicator</i>	<i>Integrated Content</i>
One Explain	FCII 8.1 Explain the purpose and applications of various types of finishes and finishing processes.	
Two Apply	FCII 8.3 Utilize safe and approved methods for cleanup and disposal (OSHA, EPA, DENR)	