

**Florida Department of Education
Curriculum Framework**

This program is a replacement for Cabinetmaking C410400 (0648070303).

Program Title: Cabinetmaking 1
Program Type: Career Preparatory
Career Cluster: Architecture and Construction

Career Certificate Program		
Program Number	C400700	
CIP Number	0648070307	
Grade Level	30, 31	
Program Length	600 hours	
Teacher Certification	Refer to the Program Structure section.	
CTSO	FL SkillsUSA	
SOC Codes (all applicable)	For program SOC codes, please see the Program and Course Tables section of the CTE Program Resources page linked below.	
CTE Program Resources	http://www.fldoe.org/academics/career-adult-edu/career-tech-edu/program-resources.shtml	
Basic Skills Level	Computation (Mathematics): 9	Communications (Reading and Language Arts): 9

Purpose

This program provides students with the skills required for a career in the cabinetmaking industry. The program is designed to take a student from foundational principles to application. Students will master workplace safety, tool usage, material science, component assembly, and project design, culminating in the skills needed for professional planning and installation. Cabinetmaking 1 can be offered in conjunction with Cabinetmaking 2 to gain mastery over more advanced techniques.

This program offers a sequence of courses that provides coherent and rigorous content aligned with challenging academic standards and relevant technical knowledge and skills needed to prepare for further education and careers in the Architecture and Construction career cluster; provides technical skill proficiency, and includes competency-based applied learning that contributes to the academic knowledge, higher-order reasoning and problem-solving skills, work attitudes, general employability skills, technical skills, and occupation-specific skills, and knowledge of all aspects of the Architecture and Construction career cluster.

Additional Information relevant to this Career and Technical Education (CTE) program is provided at the end of this document.

Program Structure

This program is a planned sequence of instruction consisting of four occupational completion points.

This program is comprised of courses which have been assigned course numbers in the SCNS (Statewide Course Numbering System) in accordance with Section (s.) 1007.24(1), Florida Statutes (F.S). Career and Technical credit shall be awarded to the student on a transcript in

accordance with s.1001.44(3)(b), F.S.

To teach the course(s) listed below, instructors must hold at least one of the teacher certifications indicated for that course.

The following table illustrates the postsecondary program structure:

			Teacher Certification	
A	BCV0230	Cabinetmaking Foundations	CAB WOODWK @7 7G	200 hours
B	BCV0231	Cabinet Installer	CARPENTRY @7 7G	200 hours
C	BCV0232	Cabinet Planner and Design	BLDG CONSTR @7 7G TEC CONSTR @7 7G	200 hours

Florida's Career Readiness Skills for CTE Programs

Employability Skills

01.0	Apply academic skills to workplace scenarios.
01.01	Use reading skills.
01.02	Use writing skills.
01.03	Use mathematical strategies and procedures.
01.04	Use scientific principles and procedures.
02.0	Design a solution to an industry problem.
02.01	Use critical thinking.
02.02	Use creativity.
02.03	Make sound decisions.
02.04	Solve problems.
02.05	Reason.
02.06	Plan and organize.
03.0	Manage resources within an industry project
03.01	Manage time.
03.02	Manage money or resources.
03.03	Manage materials.
03.04	Manage personnel.
04.0	Oversee the subcomponents, operations and output of a technical or organizational system.
04.01	Manage systems.
04.02	Monitor systems.
04.03	Improve systems.
05.0	Use information for decision making.
05.01	Locate information.
05.02	Organize information.
05.03	Use information.
05.04	Analyze information.
05.05	Communicate information.
06.0	Apply relevant technology to workplace scenarios to aid productivity.
06.01	Use technology.
07.0	Interpret and express interpersonal communication.
07.01	Communicate verbally.
07.02	Listen actively.
07.03	Comprehend written material.
07.04	Convey information in writing.
07.05	Communicate nonverbally.
07.06	Interpret nonverbal communication.

08.0	Interact with others to accomplish workplace goals.
08.01	Collaborate with others in a team.
08.02	Respond to customer needs.
08.03	Exercise leadership.
08.04	Negotiate to resolve conflict.
08.05	Respect others.
09.0	Manage personal behavior to maximize productivity and professional growth.
09.01	Demonstrate responsibility and self-discipline.
09.02	Adapt and show flexibility.
09.03	Work independently.
09.04	Demonstrate a willingness to learn.
09.05	Demonstrate integrity.
09.06	Demonstrate professionalism.
09.07	Take initiative.
09.08	Display positive attitude.
09.09	Take responsibility for professional growth.
Job Attainment	
10.0	Find, assess and apply to job opportunities.
10.01	Identify online job posts relevant to his or her career aspirations.
10.02	Compare and contrast the job posts' required qualifications, job duties, compensation, benefits and employers.
10.03	Define what information, documentation and writing prompts are required for the positions.
11.0	Communicate personal competence, character and fit for a job opportunity.
11.01	Develop a resume.
11.02	Write a cover letter.
11.03	Curate a professional portfolio that includes work products.
11.04	Prepare for and experience a mock job interview.
12.0	Cultivate and leverage relationships to professionally advance.
12.01	Request a signed reference letter, letter of recommendation and/or an online skill/professionalism endorsement.
12.02	Develop a plan to cultivate a professional digital footprint.
12.03	Develop a networking plan for a specific industry of interest.

Standards

After successfully completing this program, the student will be able to perform the following:

- 01.0 Apply shop safety skills.
- 02.0 Utilize manual and power tools relevant to the cabinetmaking professions.
- 03.0 Demonstrate mathematics knowledge and skills relevant to the cabinetmaking field.
- 04.0 Recommend appropriate building materials for specific scenarios.
- 05.0 Select appropriate fasteners and hardware for specific scenarios.
- 06.0 Apply occupational safety skills.
- 07.0 Select and use hand and power tools relevant to the cabinetmaking profession.
- 08.0 Utilize power tools specific to cabinetmaking.
- 09.0 Fasten stock and joints.
- 10.0 Cut casework components.
- 11.0 Assemble casework components.
- 12.0 Construct millwork details.
- 13.0 Explain the importance of employability and entrepreneurship skills.
- 14.0 Read and design construction documents.
- 15.0 Plan, design, and layout casework.
- 16.0 Install cabinets.
- 17.0 Install various countertop surfaces.
- 18.0 Apply laminates.
- 19.0 Install cabinets various components.

**Florida Department of Education
Student Performance Standards**

Program Title: Cabinetmaking 1
Career Certificate Program Number: C400700

Course Number: BCV0230
Occupational Completion Point: A
Cabinetmaking Foundations – 200 Hours

- | | |
|-------|--|
| 01.0 | Apply shop safety skills. The student will be able to: |
| 01.01 | Maintain a clean, orderly and safe work area. |
| 01.02 | Operate a fire extinguisher. |
| 01.03 | Qualify in basic first-aid procedures. |
| 01.04 | Demonstrate the use and care of personal protective equipment (PPE). |
| 02.0 | Utilize manual and power tools relevant to the cabinetmaking professions. The student will be able to: |
| 02.01 | Identify various hand and power tools. |
| 02.02 | Select correct tools for specific jobs. |
| 02.03 | Demonstrate proficiency in the safe use of hand and power tools. |
| 02.04 | Read and use carpenter's measuring tools. |
| 03.0 | Demonstrate mathematics knowledge and skills relevant to the cabinetmaking field. The student will be able to: |
| 03.01 | Demonstrate knowledge of arithmetic operations. |
| 03.02 | Analyze and apply data and measurements to solve problems and interpret documents. |
| 04.0 | Recommend appropriate building materials for specific scenarios. The student will be able to: |
| 04.01 | Identify the grades and species of lumber and their appropriate uses. |
| 04.02 | Identify the grades of plywood and wood products. |
| 04.03 | Explain the uses of various types of engineered lumber. |
| 05.0 | Select appropriate fasteners and hardware for specific scenarios. The student will be able to: |
| 05.01 | Identify the fasteners commonly used in cabinetmaking. |
| 05.02 | Identify the hardware commonly used in cabinetmaking. |
| 06.0 | Apply occupational safety skills. The student will be able to: |
| 06.01 | Explain the purpose of the Occupational Safety and Health Act (OSHA). |
| 07.0 | Select and use hand and power tools relevant to the cabinetmaking profession. The student will be able to: |
| 07.01 | Identify the hand tools commonly used by carpenters and describe their uses. |
| 07.02 | State the general safety rules for operating all power tools regardless of the type. |
| 07.03 | Identify the portable power tools commonly used by carpenters and describe their uses. |
| 07.04 | Use portable power tools in a safe and appropriate manner. |
| 08.0 | Utilize power tools specific to cabinetmaking. The student will be able to: |
| 08.01 | Operate both portable and stationary power tools observing safety precautions. |
| 08.02 | Maintain power tools according to the manufacturer's specifications. |

Course Number: BCV0231
Occupational Completion Point: B
Cabinet Installer – 200 Hours

- 09.0 Fasten stock and joints. The student will be able to:
 - 09.01 Identify types of glues and fasteners and describe their applications.
 - 09.02 Fasten stock with glue and clamps.
 - 09.03 Fasten stock and joints with appropriate fasteners such as nails, staples, screws, and bolts.
 - 09.04 Fill and finish nail and screw holes with fillers and plugs.
 - 09.05 Glue and clamp stock using various techniques.
- 10.0 Cut casework components. The student will be able to:
 - 10.01 Cut frame stiles and rails.
 - 10.02 Cut a casework top or countertop and a back splash.
 - 10.03 Cut drawer front, sides, back, and bottom.
 - 10.04 Route or shape casework components.
- 11.0 Assemble casework components. The student will be able to:
 - 11.01 Assemble face frame, panels, toe boards, and skeleton frame.
 - 11.02 Fasten a top or countertop and a back splash to casework.
 - 11.03 Assemble drawers.
 - 11.04 Attach trim, molding, and edge banding.
- 12.0 Construct millwork details. The student will be able to:
 - 12.01 Build shaped moldings to specifications.
 - 12.02 Cut built-up moldings
 - 12.03 Cut a cornice.
- 13.0 Explain the importance of employability and entrepreneurship skills. The student will be able to:
 - 13.01 Identify and demonstrate positive work behaviors needed to be employable.
 - 13.02 Develop personal career plan that includes goals, objectives, and strategies.
 - 13.03 Identify and exhibit traits for retaining employment.

Course Number: BCV0232
Occupational Completion Point: C
Cabinet Planner and Design – 200 Hours

- 14.0 Read and design construction documents. The student will be able to:
 - 14.01 Explain the types of drawings usually included in a set of plans and list the information found on each type.
 - 14.02 Read and interpret plans, elevations, schedules, sections, and details contained in basic construction drawings.
 - 14.03 Conduct quantity takeoff for materials.
 - 14.04 Design millwork and draw details in construction documents for a given scenario.
- 15.0 Plan, design, and layout casework. The student will be able to:
 - 15.01 Develop a plan or procedure and a cut list for a specific job.
 - 15.02 Estimate the materials required for a job.
 - 15.03 Estimate labor and materials cost using computer-application programs, if available.

	15.04	Design and layout cabinets using Computer-Assisted Design (CAD) program, if available.
16.0		Install cabinets. The student will be able to:
	16.01	Load and secure casework for hauling.
	16.02	Check walls and floors for level and plumb.
	16.03	Determine fasteners for block and walls.
	16.04	Install upper and lower cabinets and other casework.
	16.05	Fasten a suspended cabinet unit to ceiling.
	16.06	Install countertops, including sink cutouts and back splash.
	16.07	Cut and install molding and trim.
	16.08	Adjust doors and drawers.
17.0		Install various countertop surfaces. The student will be able to:
	17.01	Install wood countertop.
	17.02	Install plastic laminate countertop.
	17.03	Install solid surface countertops.
18.0		Apply laminates. The student will be able to:
	18.01	Layout and cut core stock to specifications.
	18.02	Layout and cut laminate to specifications.
	18.03	Apply adhesive.
	18.04	Apply laminate to core stock.
	18.05	Trim and file applied plastic laminate.
	18.06	Laminate a curved surface.
19.0		Install cabinets components. The student will be able to:
	19.01	Install hardware such as hinges, catches, pulls, knobs, and guides to assembled cabinets.
	19.02	Install drawers.
	19.03	Install various types of doors including overlay, lipped, and flush.
	19.04	Install various specialty hardware such as a lazy Susan, wire racks, and "pull-outs."

Additional Information

Laboratory Activities

Laboratory investigations that include scientific inquiry, research, measurement, problem solving, emerging technologies, tools and equipment, as well as, experimental, quality, and safety procedures are an integral part of this career and technical program/course. Laboratory investigations benefit all students by developing an understanding of the complexity and ambiguity of empirical work, as well as the skills required to manage, operate, calibrate and troubleshoot equipment/tools used to make observations. Students understand measurement error; and have the skills to aggregate, interpret, and present the resulting data. Equipment and supplies should be provided to enhance hands-on experiences for students.

Career and Technical Student Organization (CTSO)

CTSOs are co-curricular career and technical student organizations providing leadership training and reinforcing specific career and technical skills. Career and Technical Student Organizations provide activities for students as an integral part of the instruction offered. Other CTSOs not listed in this curriculum framework or recognized by the Florida Department of Education are permissible provided they support student mastery over the standards and benchmarks of this curriculum framework.

Cooperative Training – OJT

On-the-job training is appropriate but not required for this program. Whenever offered, the rules, guidelines, and requirements specified in the OJT framework apply.

Basic Skills

In Career Certificate programs offered for 450 hours or more, in accordance with Rule 6A-10.040, F.A.C., the minimum basic skills grade levels required for postsecondary adult career and technical students to complete this program are: Computation (Mathematics) and Communications (Reading and Language Arts). These grade level numbers correspond to a grade equivalent score obtained on a state designated basic skills examination.

Adult students with disabilities, as defined in s.1004.02, F.S., may be exempted from meeting the Basic Skills requirements (Rule 6A-10.040, F.A.C.). Students served in exceptional student education (except gifted) as defined in s. 1003.01, F.S., may also be exempted from meeting the Basic Skills requirement. Each school district and Florida College System Institution must adopt a policy addressing procedures for exempting eligible students with disabilities from the Basic Skills requirement as permitted in s. 1004.91, F.S.

Accommodations

Federal and state legislation requires the provision of accommodations for students with disabilities to meet individual needs and ensure equal access. Postsecondary students with disabilities must self-identify, present documentation, request accommodations if needed, and develop a plan with their counselor and/or instructors. Accommodations received in postsecondary education may differ from those received in secondary education. Accommodations change the way the student is instructed. Students with disabilities may need accommodations in such areas as instructional methods and materials, assignments and assessments, time demands and schedules, learning environment, assistive technology and special communication systems. Documentation of the accommodations requested and provided should be maintained in a confidential file.

Note: postsecondary curriculum and regulated secondary programs cannot be modified.