

Construction 4 II955 Curriculum Guide

9-12 Grades

Prerequisite Course(s): Construction 3

High School Credit =1/2 credit per semester (Postsecondary credit = 0)

This course will be offered: X every year OR ___ every other year

Pathway (Optional): Construction

Career Cluster Area: Architecture and Construction

Source of Occupational Skills Standards: American Chemical Society (CLT), International Building Code (IBC)

Eligibility for Nationally Recognized Skill Certificate(s)/State License: ___ No OR X Yes, and identify Certificate: NCCER

Tech Prep: X No OR ___ Yes - If Yes, list postsecondary institution and number of postsecondary credits

Is this course brokered through another institution or agency: X No OR ___ Yes, and list institution/agency:

Course Master Number: II955

Course Description: This course is an advanced level construction class designed to build on skills learned in the previous Construction classes and to develop leadership and management skills that apply to the building trades industry.

Content Headings/Topics:

1. Building safety
2. Building materials
3. Electrical
4. Plumbing
5. Heating systems
6. Framing techniques
7. Finishing techniques
8. Flooring techniques
9. Cabinet Installation
10. Mentorship and Leadership skills

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Standard	Objective	Sequence and Duration	Sample Teaching Strategy/ Possible Integration	Resources and Text	Dist/ State Assessment	Formative Assessment
	1. Review of standards for Construction 1, 2, & 3 (A6)		R4.2			Classroom Discussion
CLTD27:28	2. Demonstrate the ability to mentor and supervise the installation of service entrance and secondary circuits per National Electrical Code specs. (A6)		M1.4.1, 2.4.1, 2.4.4, 3.4.1, 4.4.2, R4.4			Lab Assignments
IBC 2006 2901	3. Mentor and supervise the demonstration of the basic principles for plumbing a house to meet local code. (A6)		M1.4.1, 2.4.1, 2.4.4, 3.4.1, 4.4.2, R4.4			Lab Assignments
IBC 2006 1204	4. Mentor and supervise the demonstration of proper sizing / selection / installation of heating system. (A6)		M1.4.1, 2.4.1, 2.4.4, 3.4.1, 4.4.2, R4.4			Lab Assignments
IBC 2006 602	5. Mentor and supervise the demonstration of advanced framing techniques. (A6)		M1.4.1, 2.4.1, 2.4.4, 3.4.1, 4.4.2, R4.4			Lab Assignments
IBC 2006 801	6. Understand and discuss different interior finishing procedures.		R4.2			Lab Assignments
IBC 2006 602.4.2, 602.4.4	7. Mentor and supervise the demonstration of advanced flooring techniques. (A6)		M1.4.1, 2.4.1, 2.4.4, 3.4.1, 4.4.2, R4.4			Lab Assignments
IBC 2006 1203	8. Understand and discuss basic ventilation concepts.		R4.2			Lab Assignments
IBC 2006 801.1.1, 801.2	9. Mentor and supervise the demonstration of proper selection / application of interior and exterior finishes. (A6)		R4.4			Lab Assignments
	10. Mentor and supervise the demonstration of the ability to install cabinets and finish trim work. (A6)		M1.4.1, 2.4.1, 2.4.4, 3.4.1, 4.4.2, R4.4			Lab Assignments