

FLORIDA STATE COLLEGE AT JACKSONVILLE

COLLEGE CREDIT COURSE OUTLINE

COURSE NUMBER: BCT 1101

COURSE TITLE: Tools and Pre-Construction Skills

PREREQUISITE(S): None

COREQUISITE(S): None

CREDIT HOURS: 3

CONTACT HOURS/WEEK: 5

CONTACT HOUR BREAKDOWN:

Lecture/Discussion: 2

Laboratory: 3

Other _____:

FACULTY WORKLOAD POINTS: 3.5

STANDARDIZED CLASS SIZE ALLOCATION: 24

COURSE DESCRIPTION:

Topics include the safe use of all hand and power tools, construction of saw horses, saw vises and tool box. The course also includes the uses of the framing square and a review of working drawings.

SUGGESTED TEXT(S): NCCER Curriculum Level I, II, III, IV

IMPLEMENTATION DATE: Fall Term, 2004 (20051)

REVIEW OR MODIFICATION DATE: Fall Term, 2008 (20091) - Outline Review 2007

COURSE TOPICS	<u>CONTACT HOURS PER TOPIC</u>
I. Introduction/Safety	10
II. Hand Tools	10
A. Layout, measuring and checking tools	
B. Sawing tools	
C. Edge cutting tools	
D. Drilling and boring tools	
III. Power Tools	15
A. Radial arm saw	
B. Table saw	
C. Circular and portable power saw	
D. Router	
E. Drills	
F. Sanders	
IV. Devices Made on the Job	10
A. Sawhorse	
B. Saw vise	
C. Workbench	
D. Tool box	
V. Framing Square	15
A. Essex board measure	
B. Using the octagon scale	
C. How to use unit-length rafter table	
D. Brace layout	
E. Brace measure	
VI. Review of Working Drawings/Conventions and Symbols	15
A. Scale	
B. Plan view	
C. Elevation	
D. Section	
E. Details	
F. Schedules	

PROGRAM TITLE: Carpentry
COURSE TITLE: Tools and Pre-Construction Skills
CIP NUMBER: 0646020106

LIST PERFORMANCE STANDARD ADDRESSED:

NUMBER(S): TITLES(S):

- 01.0 DEMONSTRATE SHOP AND OCCUPATIONAL 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 and apply basic first aid procedures.
 - 01.04 Identify common safety hazards
- 02.0 DEMONSTRATE BASIC KNOWLEDGE OF THE CONSTRUCTION INDUSTRY -- The student will be able to:
- 02.01 Describe the role of the construction industry within the free enterprise system.
 - 02.02 Identify employment opportunities in the construction industry.
- 03.0 DEMONSTRATE KNOWLEDGE OF BASIC MATHEMATICS FOR CARPENTRY -- The student will be able to:
- 03.01 Solve basic math problems related to carpentry applications.
 - 03.03 Solve for board foot measurement.
 - 03.04 Solve for linear foot measurement.
- 04.0 READ BLUEPRINTS -- The student will be able to:
- 04.01 Read an architect's rule.
 - 04.04 Identify lines and blueprint symbols.
 - 04.05 Interpret blueprints and specifications.
- 05.0 UTILIZE HAND TOOLS -- The student will be able to:
- 05.01 Identify various hand tools.
 - 05.02 Select correct tool for job.
 - 05.03 Demonstrate safe and proper use of hand tools.
- 07.0 UTILIZE POWER TOOLS -- The student will be able to:
- 07.01 Identify power tools and machines.
 - 07.02 Select the correct power tool according to the job.
 - 07.03 Operate and care for power tools properly.



NOTE: Use either the Tab key or mouse click to move from field to field. The box will expand to accommodate your entry.

<i>Section 1</i>	
COURSE PREFIX AND NUMBER: <u>BCT 1101</u>	SEMESTER CREDIT HOURS: <u>3</u>
COURSE TITLE: <u>Tools and Pre-Construction Skills</u>	

Section 2

TYPE OF COURSE: (Click on the box to check all that apply)

<input type="checkbox"/> AA Elective	<input type="checkbox"/> AS Required Professional Course	<input type="checkbox"/> College Prep
<input type="checkbox"/> AS Professional Elective	<input checked="" type="checkbox"/> AAS Required Professional Course	<input checked="" type="checkbox"/> Technical Certificate
<input type="checkbox"/> Other _____		
<input type="checkbox"/> General Education: (For General Education courses, you must also complete Section 3 and Section 7)		

Section 3 (If applicable)

INDICATE BELOW THE DISCIPLINE AREA FOR GENERAL EDUCATION COURSES:

<input type="checkbox"/> Communication	<input type="checkbox"/> Social & Behavioral Sciences	<input type="checkbox"/> Mathematics
<input type="checkbox"/> Natural Sciences	<input type="checkbox"/> Humanities	

Section 4

INTELLECTUAL COMPETENCIES:

<input checked="" type="checkbox"/> Reading	<input type="checkbox"/> Speaking	<input type="checkbox"/> Critical Analysis	<input type="checkbox"/> Quantitative Skills	<input type="checkbox"/> Scientific Method of Inquiry
<input checked="" type="checkbox"/> Writing	<input checked="" type="checkbox"/> Listening	<input type="checkbox"/> Information Literacy	<input type="checkbox"/> Ethical Judgment	<input checked="" type="checkbox"/> Working Collaboratively

<i>Section 5</i>	
LEARNING OUTCOMES	METHOD OF ASSESSMENT
• Utilize manual and power tools.	NCCER Module Certification Score 70% or better
• Identify the characteristics of building materials.	NCCER Module Certification Score 70% or better
• Identify fasteners and hardware.	NCCER Module Certification Score 70% or better
• Read basic blueprints.	NCCER Module Certification Score 70% or better
• Set up a transit and builder's level.	NCCER Module Certification Score 70% or better
• Identify structural timber.	NCCER Module Certification Score 70% or better
• Explain or identify various forms.	NCCER Module Certification Score 70% or better
• Demonstrate an understanding of entrepreneurship.	NCCER Module Certification Score 70% or better
• Demonstrate employability skills.	NCCER Module Certification Score 70% or better
• Identify safe working conditions and observe safety precautions.	NCCER Module Certification Score 70% or better

Section 6 Name of Person Completing This Form: Jim Yurko