

FLORIDA STATE COLLEGE AT JACKSONVILLE

COLLEGE CREDIT COURSE OUTLINE

COURSE NUMBER: BCT 1120

COURSE TITLE: Leveling Instruments, Site Preparation and Layout

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 importance of accurate work in laying out buildings with the use of different leveling instruments and the many aspects of site preparation and layout of buildings and houses.

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	5
II. Leveling Instruments	20
A. Builder level (4)	
1. Reading the circle scale and vernier	
2. Set up and adjust the builder's level	
B. Transit level (4)	
1. Set up and adjust over point	
2. Establish lines with two points	
C. Laser (4)	
D. Automatic level (4)	
E. Read the self-reading level rods (4)	
III. Identify Building Layout	50
A. Erect batter boards and locate building lines (5)	
B. Locate building line on batter boards using a transit (10)	
C. Locate building lines on a plot plan set from datum (10)	
D. Set up batter boards (5)	
E. Square building using the 3-4-5 rule (10)	
F. Square a building using the diagonal method (10)	

PROGRAM TITLE: Carpentry
COURSE TITLE: Leveling Instruments, Site Preparation and Layout
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 Identify common safety hazards.

04.0 READ BLUEPRINTS -- The student will be able to:

- 04.01 Read an architect's rule.
- 04.03 Identify architectural and engineering elevations and schedules.
- 04.04 Identify lines and blueprint symbols.
- 04.05 Interpret blueprints and specifications.

08.0 PERFORM SITE PREPARATION AND LAYOUT ACTIVITIES -- The student will be able to:

- 08.01 Identify building layout.
- 08.02 Erect batter boards and locate building lines.
- 08.03 Locate building line points on batter boards using building level.
- 08.04 Locate building lines on a plot plan.
- 08.05 Square a building using the 3-4-5 method and the diagonal method.

09.0 SET UP AND USE A TRANSIT AND BUILDER'S LEVEL -- The student will be able to:

- 09.01 Set up and adjust transit or builders level over point and establish lines over two points.
- 09.02 Read the self-reading rod (positive and direct reading).
- 09.03 Perform differential leveling.

10.0 DEMONSTRATE PROPER HANDLING AND STORAGE OF MATERIALS -- The student will be able to:

- 10.01 Receive and store materials at a job site.



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: BCT 1120	SEMESTER CREDIT HOURS: 3
COURSE TITLE: Leveling instruments, Site Preparation and Layout	

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
• Perform site-preparation and layout activities.	NCCER Module Certification Score 70% or better
• Identify structural timber.	NCCER Module Certification Score 70% or better
• Set up and use a transit and builder's level.	NCCER Module Certification Score 70% or better
• Comply with hurricane codes.	NCCER Module Certification Score 70% or better
• Demonstrate problem solving 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**