FLORIDA STATE COLLEGE AT JACKSONVILLE

COLLEGE CREDIT COURSE OUTLINE

COURSE NUMBER:	BCT 1140
COURSE TITLE:	Foundation Formwork, Wall and Floor Framing
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 procedures necessary to make buildings and houses strong. The course also includes framing and bracing of floors and walls.

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	CONTACT HOURS PER TOPIC
I. Introduction/Safety	2
II. Concrete as a Material	3
III. Factors in Form Design	5
IV. Materials Used in Formwork	5
V. Basic Formwork A. Forming for footings B. Procedure for erecting footings C. Regional footing construction procedures	5
VI. Basic Foundation Forming Types A. Conventional wall forming B. Low wall forming C. Slab at grade D. Grade beam foundation	10
VII. Concrete Forming Systems	10
VIII. Erecting Formwork	5
IX. Placing Concrete	5
X. Stripping the Formwork	2
XI. Concrete Stairs	3
XII. Walks and Drives	3
XIII. Wall and Floor Framing A. Rough framing B. Frame construction details C. Special framing problems D. Structural design	15
XIV. Employability Skills	2

PROGRAM TITLE: Residential and Commercial Carpentry

COURSE TITLE: Foundation Formwork, Wall and Floor Framing

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.
01.04 Identify common safety hazards.

03.0 DEMONSTRATE KNOWLEDGE OF BASIC MATHEMATICS FOR CARPENTRY -- The student will be able to:

03.02 Solve for square foot and cubic foot measurement.

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

04.03 Identify architectural and engineering elevations and schedules.
04.05 Interpret blueprints and specifications.

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.

11.0 DEMONSTRATE KNOWLEDGE OF FORM CONSTRUCTION--The student will be able to:

11.01 Identify characteristics and types of forms.
11.02 Install in beds for various form.
11.03 Identify styles of footings.
11.04 Construct and set forms for a continuous form.
11.06 Construct and set a pier footing form.
11.07 Strip a form for relocation.
11.08 Construct a straight wall with representative patented forms.
11.11 Construct panel forms.
11.12 Construct slip forms.
11.14 Construct various types of curb and gutter forms.
11.16 Construct column forms (round and squared).
11.19 Construct various staircase forms.

LIST PERFORMANCE STANDARD ADDRESSED: (continued)

NUMBER(S): TITLES(S):

12.0 CUT AND INSTALL FRAMING MEMBERS FOR A FLOOR--The student will be able to:

12.03 Install bridging.
12.04 Lay subfloor.
12.05 Install floor joists for cantilever floor.

13.0 CUT AND INSTALL A WALL AND PARTITION FRAMING--The student will be able to:

13.01 Identify framing members used in wall and partition construction.
13.02 Layout wall lines and partition locations on floor.
13.03 Cut studs, trimmers, cripples headers and firesteps to length.
13.04 Build T's, corners and headers.
13.05 Lay out and assemble wall sections.
13.06 Install wall sheathing.
13.07 Install metal door bucks.
13.08 Install steel studs.

24.0 DEMONSTRATE KNOWLEDGE OF TIMBER CONSTRUCTION --The student will be able to:

24.01 Identify structural timber components.

25.0 INSTALL DECKING AND SHEATHING --The student will be able to:

25.02 Install sheathing.

28.0 DEMONSTRATE EMPLOYABILITY SKILLS--The student will be able to:

28.01 Conduct a job search.
28.02 Secure information about a job.
28.04 Complete a job application form correctly.
28.06 Identify or demonstrate appropriate responses to criticism from employer, supervisor or other employees.
28.07 Identify acceptable work habits.

Florida State College At Jacksonville

Course Learning Outcomes & Assessment For All College Credit Courses

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

Section 1	
COURSE PREFIX AND NUMBER: **BCT 1140**	SEMESTER CREDIT HOURS: **3**
COURSE TITLE: **Foundation Formwork/Wall and Floor Framing**	

Section 2

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

- ☐ **AA Elective**
- ☐ **AS Professional Elective**
- ☐ **AS Required Professional Course**
- ☒ **AAS Required Professional Course**
- ☐ **College Prep**
- ☒ **Technical Certificate**
- ☐ **Other** _____
- ☐ **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:

- ☐ **Communication**
- ☐ **Social & Behavioral Sciences**
- ☐ **Mathematics**
- ☐ **Natural Sciences**
- ☐ **Humanities**

Section 4

INTELLECTUAL COMPETENCIES:

- ☒ **Reading**
- ☐ **Speaking**
- ☐ **Critical Analysis**
- ☐ **Quantitative Skills**
- ☐ **Scientific Method of Inquiry**
- ☒ **Writing**
- ☒ **Listening**
- ☐ **Information Literacy**
- ☐ **Ethical Judgment**
- ☒ **Working Collaboratively**

Section 5 **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