

FLORIDA STATE COLLEGE AT JACKSONVILLE

COLLEGE CREDIT COURSE OUTLINE

COURSE NUMBER: BCN 1210L

COURSE TITLE: Construction Materials Lab

PREREQUISITE(S): None

COREQUISITE(S): BCN 1210

CREDIT HOURS: 1

CONTACT HOURS/WEEK: 1

CONTACT HOUR BREAKDOWN:

Lecture/Discussion:

Laboratory: 1

Other _____:

FACULTY WORKLOAD POINTS: .5

STANDARDIZED CLASS SIZE ALLOCATION: 24

CATALOG COURSE DESCRIPTION:

A laboratory course designed to provide experience in the properties of various building materials such as aggregates, concrete, wood and masonry materials.

SUGGESTED TEXT(S): Illustrated Dictionary of Building Design and Construction;
By: Burden, Ernest; ISBN: 0071445064:

IMPLEMENTATION DATE: Fall Term, 2007 (20081)

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

COURSE TOPICS

CONTACT HOURS
PER TOPIC

Lab classes will be a series of off campus site tours following the topics in the regular class.

PROGRAM TITLE: Building Construction Technology

COURSE TITLE: Construction Materials Lab

CIP NUMBER: 0615.100101

LIST PERFORMANCE STANDARDS ADDRESSED:

NUMBER(S): TITLES(S):

06.0 SELECT AND MAINTAIN CONSTRUCTION SITE TOOLS AND EQUIPMENT--The student will be able to:

- 06.01 Select fire fighting equipment.
- 06.02 Select and maintain safety equipment.
- 06.03 Select cleaning equipment.
- 06.04 Select miscellaneous small tools.
- 06.05 Select and maintain shop and power tools.
- 06.06 Select surveying equipment.
- 06.07 Select concrete finishing equipment.
- 06.08 Select plaster and mortar mixing equipment.
- 06.09 Select and maintain temporary site offices, storage, and restroom facilities.
- 06.10 Select temporary building enclosures.
- 06.11 Select concrete placing equipment.
- 06.12 Prepare equipment service schedules.
- 06.13 Evaluate type and size of earth moving equipment needed for the project.
- 06.14 Select and maintain construction site communication equipment.
- 06.15 Select concrete batching and mixing equipment.
- 06.16 Select compaction equipment.
- 06.17 Identify pile driving and earth boring equipment.
- 06.18 Select and maintain temporary power and lighting equipment.
- 06.19 Select and maintain temporary water services.
- 06.20 Select demolition equipment.
- 06.21 Select balance of power and plant equipment.

14.0 DEMONSTRATE APPROPRIATE UNDERSTANDING OF BASIC SCIENCE--The student will be able to:

- 14.01 Understand molecular action as a result of temperature extremes, chemical reaction, and moisture content.
- 14.02 Draw conclusions or make inferences from data.
- 14.03 Identify health related problems which may result from exposure to work related chemicals and hazardous materials, and know the proper precautions required for handling such materials.
- 14.04 Understand pressure measurement in terms of P.S.I., inches of mercury, and K.P.A.



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>BCN 1210L</u>	SEMESTER CREDIT HOURS: <u>1</u>
COURSE TITLE: <u>CONSTRUCITON MATERIALS LAB</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 checked="" type="checkbox"/> AS Professional Elective	<input type="checkbox"/> AAS Required Professional Course	<input 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"/> Communications	<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 checked="" type="checkbox"/> Speaking	<input checked="" type="checkbox"/> Critical Analysis	<input checked="" 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 type="checkbox"/> Working Collaboratively

	LEARNING OUTCOMES	METHOD OF ASSESSMENT
•	IDENTIFY THE VARIOUS TYPES OF MATERIALS USED IN THE CONSTRUCTION INDUSTRY	LECTURE/PROJECTS/EXAMS
•	SELECT AND MAINTAIN COMMON CONSTRUCTION MATERIALS	LECTURE/PROJECTS/EXAMS
•	UNDERSTAND WHY DIFFERENT CONSTRUCTION MATERIALS ARE USED IN THE INDUSTRY	LECTURE/PROJECTS/EXAMS
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Section 6

Name of Person Completing This Form: JOHN ADCOX Date: 9/01/06