

FLORIDA STATE COLLEGE AT JACKSONVILLE

COLLEGE CREDIT COURSE OUTLINE

COURSE NUMBER: BCN 2563

COURSE TITLE: Electrical Systems

PREREQUISITE(S): None

COREQUISITE(S): None

CREDIT HOURS: 2

CONTACT HOURS/WEEK: 2

CONTACT HOUR BREAKDOWN:

 Lecture/Discussion: 2

 Laboratory:

 Other _____:

FACULTY WORKLOAD POINTS: 2

STANDARDIZED CLASS SIZE ALLOCATION: 30

CATALOG COURSE DESCRIPTION:

This course covers principles and current practices in the application of electrical materials and systems, communications, vertical transportation, and architectural acoustics.

SUGGESTED TEXT(S): Building Technology Mechanical and Electrical Systems
William J. McGuinness and Benjamin Stein
John Wiley & Sons

IMPLEMENTATION DATE: Fall Term, 2007 (20081)

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

COURSE TOPICS	CONTACT HOURS <u>PER TOPIC</u>
I. Unit One	15
A. Electricity principles and practice Basics of Heating, Cooling and Ventilation	
B. Heating by Hot Water and Electricity	
II. Unit Two	15
A. Principles of Plumbing	
B. Residential Plumbing	
C. Non-Residential Plumbing	
a) Bathrooms	
b) Water Services	
c) Storm Drainage	
d) Sewer Mains	
III. Unit Four: Oral/Written Reports	15

This unit is designed to enable the student to study in depth some aspect of Mechanical systems in Buildings.

PROGRAM TITLE: Building Construction Technology

COURSE TITLE: Electrical Systems

CIP NUMBER: 0615.100101

LIST PERFORMANCE STANDARD 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.



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 2563</u>	SEMESTER CREDIT HOURS: <u>3</u>
COURSE TITLE: <u>ELECTRICAL SYSTEMS</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 checked="" 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

<i>Section 5</i>	
LEARNING OUTCOMES	METHOD OF ASSESSMENT
• STUDENT WILL BE ABLE TO UNDERSTAND THE BASIC PRINCIPLES OF ELECTRICITY	LECTURE/PROJECTS/EXAMS
• UNDERSTAND TEMPORARY POWER AND LIGHTING EQUIPMENT	LECTURE/PROJECTS/EXAMS
• IDENTIFY AND UNDERSTAND THE FUNCTION OF THE ELECTRICAL MATERIALS, COMMUNICATION SYSTEMS, VERTICAL TRANSPORTATION IN CONSTRUCTION	LECTURE/PROJECTS/EXAMS
• UNDERSTAND THE CONCEPTS USED IN ACOUSTICS	LECTURE/PROJECTS/EXAMS
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Section 6

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