

FLORIDA STATE COLLEGE AT JACKSONVILLE

COLLEGE CREDIT COURSE OUTLINE

COURSE NUMBER:	FFP 2521
COURSE TITLE:	Construction Documents and Plans Review
PREREQUISITE(S):	None
COREQUISITE(S):	None
CREDIT HOURS:	3
CONTACT HOURS/WEEK:	3
CONTACT HOUR BREAKDOWN:	
Lecture/Discussion:	3
Laboratory:	
Other _____:	
FACULTY WORKLOAD POINTS:	3
STANDARDIZED CLASS SIZE ALLOCATION:	30
CATALOG COURSE DESCRIPTION:	
<p>This curriculum is designed toward teaching the student how to assimilate information contained in working drawings and specifications as they relate to fire inspections. The curriculum includes how to interpret conventional graphic communications. Accepted standards and conventions are introduced. Symbols, abbreviations, principles of technical projection, as well as a review of construction mathematics and geometry are included. Related worksheets are used to allow applied experience of finding and interpreting information from authentic drawings. Students are to bring an architectural scale/ruler.</p>	
SUGGESTED TEXT(S):	<u>Print Reading for Construction, Residential and Commercial</u> , Walter C. Brown, 1997, The Goodheart-Willcox Company, Inc.
IMPLEMENTATION DATE:	Fall Term, 1991
REVIEW OR MODIFICATION DATE:	Fall Term, 2003 (20041) Spring Term, 2008 (20082), (Purge) Fall Term, 20008 (20091) Reactivate

COURSE TOPICS	CONTACT HOURS <u>PER TOPIC</u>
I. Introduction to Print Reading - Section 1	5
A. Unit 1 - Construction Drawings	
B. Unit 2 - Reading Measuring Tools	
C. Unit 3 - Construction Mathematics Review	
II. Print Reading Basics - Section 2	5
A. Unit 4 - Lines and Symbols	
B. Unit 5 - Pictorial Drawings	
C. Unit 7 - Orthographic Drawings	
D. Unit 8 - Dimensioning	
III. Materials and Specifications - Section 3	6
A. Unit 9 - Constructions Material	
B. Unit 10 - Specifications	
IV. Reading Prints - Section 4	6
A. Unit 11 - Plot Plans	
B. Unit 12 - Foundation Prints	
C. Unit 13 - Commercial Framing Prints	
D. Unit 14 - Residential Framing Prints	
E. Unit 15 - Plumbing Prints	
F. Unit 16 - HVAC Prints	
G. Unit 17 - Electrical Prints	
H. Unit 18 - Masonry Prints	
I. Unit 19 - Welding Prints	
V. Estimating - Section 5 - Unit 20 - Estimating Construction Cost	6
VI. Advanced Print Reading Projects - Section 6	12
A. Advanced Project A - Two Story Residence	
B. Advanced Project B - Split-Level Residence	
C. Advanced Project C - Office Building	
D. Advanced Project D - Office and Warehouse	
VII. Reference Section - Section 7	5
A. Abbreviations	
B. CSI Specifications	
C. Glossary	
D. Index	

PROGRAM TITLE: Fire Science Technology
 COURSE TITLE: Construction Documents and Plans Review
 CIP NUMBER: 0743.020100

LIST PERFORMANCE STANDARD ADDRESSED:

NUMBER(S): TITLES(S):

15.0 FOLLOWING PREVENTION INSPECTION PRACTICES -- The student will be able to:

- 15.01 Demonstrate clear oral expression.
- 15.02 Demonstrate clear written expression.
- 15.12 Prepare diagrams or sketches of buildings to record the locations of items of concern during pre-fire planning.
- 15.13 Collect and record in writing information required for the purpose of preparing a report on a building inspection or survey.
- 15.20 Demonstrate accepted filing techniques.
- 15.25 Identify the fire exit requirements for different types of occupancies.
- 15.30 Identify the areas of responsibility of other municipal and state inspection agencies.
- 15.47 Identify procedures required for the processing of plans and specifications.

18.0 IDENTIFY FIRE PROTECTION ORGANIZATIONS - The student will be able to:

- 18.01 Identify the public and public national organizations that support the fire protection services, and describe the functions of each.
- 18.02 Identify the public and private state organizations that support the fire protection services, and describe the functions of each.
- 18.03 Identify the public and private local organizations that support the fire protection services, and describe the functions of each.

19.0 EVALUATE FIRE HAZARDS - The student will be able to:

- 19.04 Identify the common and special hazards that might be encountered in the following occupancies: (a) assembly, (b) educational, (c) health care (d) detention and correctional, (e) residential, (f) mercantile, (g) business, (h) industrial, (i) storage, (j)unusual structures, (k) mixed occupancies.

20.0 APPLY CODES AND ORDINANCES- The student will be able to:

- 20.01 Identify and describes the fire prevention codes, building codes, and ordinances applicable to fire safety in the authority having jurisdiction.
- 20.02 Identify and describe recognized fire prevention codes and building codes.
- 20.03 Identify acceptable code enforcement procedures and sources of information for such procedures.
- 20.04 Identify jurisdictional responsibilities of federal, state, and local governments and organizations relative to code enforcement procedures.

LIST PERFORMANCE STANDARD ADDRESSED: (CONTINUED)

NUMBER(S): TITLES(S):

- 20.05 Identify anticipated human behavior relative to code enforcement.
- 20.06 Identify local code enforcement procedures.
- 20.07 Identify the judicial systems, particularly as it relates to code enforcement procedures.
- 20.08 Identify legal processes as they relate to code enforcement procedures.
- 20.09 Define the established procedure for modification of code requirements.
- 20.12 Identify license or permit requirements within the jurisdiction.

24.0 WRITE REPORTS - The student will be able to:

- 24.01 Identify the types of report forms used by the authority having jurisdiction at the level of responsibility.
- 24.02 Given a record keeping system for the officer's area of responsibility, demonstrate: (a) how to maintain the system, (b) how to transmit reports to superior officers.

32.0 DEMONSTRATE KNOWLEDGE OF GENERAL FIRE SAFETY - The student will be able to:

- 32.01 Identify code requirements, regulations, basic operational features, and fire hazards presented by various occupancies and particularly public assembly, residential, business, mercantile, office, storage, industrial, manufacturing, and utility occupancies.
- 32.05 Identify the means of egress requirements for various occupancies.
- 32.06 Identify how to determine whether facilities for a given building, floor, or rooms are adequate for the occupancy involved.
- 32.07 Identify how to determine whether travel distances to exits are within allowable limits.
- 32.09 Identify how to determine whether exits are properly illuminated, marked, placed, secured, operable, and equipped with hardware.
- 32.11 Identify how to determine whether egress paths are adequate in width and properly illuminated and maintained.
- 32.12 Identify the code requirements and regulations relative to the maintenance of means of egress from various occupancies.

33.0 DEMONSTRATE KNOWLEDGE OF FIRE PROTECTION AND LIFE SAFETY ASPECTS OF BUILDING CONSTRUCTION - The student will be able to:

- 33.03 Demonstrate knowledge of the characteristics of basic building materials and the behavior under fire conditions.
- 33.04 Identify acceptable flame spread and smoke ratings for the various areas of occupancy.
- 33.06 Identify the features of fire protection and life safety related to building construction for various types of occupancies.
- 33.07 Identify acceptable test methods and marking or labeling for building construction assemblies or devices.

LIST PERFORMANCE STANDARD ADDRESSED: (CONTINUED)

NUMBER(S):	TITLES(S):
33.08	Identify types of fire doors and installation requirements.
33.09	Identify locations where rated building construction is required.
33.11	Identify building construction components installed for fire related purposes including but not limited to fire stops, draft curtains, fire walls, smoke vents, chimneys, flues, and rated ceilings.
33.14	Identify building construction classifications by identifying the principal types of building construction as defined by the building code.
33.15	Identify building contents and requirements.
33.16	Identify the types of and installation requirements for building service equipment that can affect fire protection and safety.



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: FFP2521	SEMESTER CREDIT HOURS (CC): 3 CONTACT HOURS (NCC): 3
COURSE TITLE: <u>Construction Documents and Plans Review</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 type="checkbox"/> Technical Certificate
<input type="checkbox"/> Other _____	<input type="checkbox"/> PSAV	<input type="checkbox"/>
Apprenticeship		
<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 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 checked="" type="checkbox"/> Information Literacy	<input type="checkbox"/> Ethical Judgment	<input checked="" type="checkbox"/> Working Collaboratively

<i>Section 5</i>	
LEARNING OUTCOMES	METHOD OF ASSESSMENT
• Demonstrate clear oral expression	Oral presentation in class instructor/peer evaluation
• Prepare diagram or sketches of buildings	Written evaluation of diagram/sketches
• Identify the fire exit requirements for different types of occupancies	Written exam
• Identify local code enforcing procedures	Written exam
• Demonstrate how to maintain record keeping system	Group project peer evaluation
• Identify types of fire doors and installation requirements	Written exam
• Identify acceptable code enforcement procedures and sources of information for such procedures	Internet search for various cities in Florida and produce a written report on each code and compare it to Jacksonville codes.
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Section 6

Name of Person Completing This Form: Richard Nelson Date: May 14, 2008