

FLORIDA STATE COLLEGE AT JACKSONVILLE

COLLEGE CREDIT COURSE OUTLINE

COURSE NUMBER:	TAR 2120
COURSE TITLE:	Architectural Drafting
PREREQUISITE(S):	ETD 1100 or IND 1606
COREQUISITE(S):	None
CREDIT HOURS:	3
CONTACT HOURS/WEEK:	4
CONTACT HOUR BREAKDOWN:	
Lecture/Discussion:	2
Laboratory:	2
Other _____:	
FACULTY WORKLOAD POINTS:	3
STANDARDIZED CLASS SIZE ALLOCATION:	25
CATALOG COURSE DESCRIPTION:	
<p>This course introduces residential design and planning and requires an original solution to a given residential concept. Students not only prepare original tracings consisting of floor plans, elevations, wall sections but also produce large scale details from the original design. The emphasis of the course is on applied principles of architectural drafting and detailing.</p>	
SUGGESTED TEXT(S):	<u>Architectural Drawing and Design</u> , Latest Edition, Alan Jefferis/David Madsen, Delmar Publishers, ISBN 0-8273-6749-X
IMPLEMENTATION DATE:	June 25, 1984
REVIEW OR MODIFICATION DATE:	Fall Term, 2002 (20031) Spring Term, 2004 (20042)

COURSE TOPICS

Rationale: This course covers the fundamentals necessary for the development of a set of working drawings for a residential dwelling. Included in the course is the examination of A1A design standards and procedures used in architectural drafting.

Intent: The intent is to develop a knowledge of architecture so the student will be able to solve most problems of design which occur in residential developments.

COURSE TOPICS

CONTACT HOURS
PER TOPIC

Suggested Distribution:

I.	Introduction (Architectural Design Techniques)	4
II.	Design and Planning	8
	A. Determine the Cost Limit of the House	
	B. Plan the House to Fit the Site	
	C. Principles of Design	
	D. Coordinate Interior with Exterior	
	E. Draw Preliminary Floor Plan	
III.	Floor Plans	12
	A. Development of First Floor Plan	
	B. Development of Second Floor Plan using First Floor Plan	
IV.	Foundations	8
	A. Foundation Types	
	B. Foundation Construction Methods	
	C. Special Foundation	
	D. Development of the Foundation Plan using First Floor Plan	
	E. Foundation Sections	
V.	Elevations	8
	A. Elevation Projections	
	B. Elevation Symbols and Dimensioning	
	C. Development of Elevations	
VI.	Sectional Drawings (Development of Wall Sections)	8
VII.	Detail Drawings	8
	A. Fireplace Design and Details	
	B. Drawing the Kitchen Details	

COURSE TOPICS (Continued)

CONTACT HOURS
PER TOPIC

Suggested Distribution:

- C. Drawing the Bathroom Details
- D. Designing Door and Windows Schedules
- E. Designing Room Finishing Schedules

VIII. Location Plans

4

- A. Platte Plans
- B. General Notes
- C. Title Page and Title Blocks

PROGRAM TITLE: Civil Engineering Technology

COURSE TITLE: Architectural Drafting

CIP NUMBER: 0715.020101

LIST PERFORMANCE STANDARDS ADDRESSED:

NUMBER(S): TITLES(S):

04.0 USE INSTRUMENTS TO CONSTRUCT ENGINEERING, MECHANICAL, AND GEOMETRICAL TYPE DRAWING -- The student will be able to:

- 04.01 Use Leroy lettering set and reservoir technical pens to draft on various media topographic maps, plats, subdivisions, plans and profiles, and other appropriate civil engineering projects.
- 04.02 Use a Polar planometer to determine areas for plats, drainage computations, and land planning.
- 04.03 Use curve sets to draw plans and profiles.
- 04.04 Use curve templates to draw plans and profiles.
- 04.05 Demonstrate correct use of appropriate drafting instruments in given situations.

05.0 SKETCH, LETTER, AND GENERATE LINEWORK TO DESCRIBE VARIOUS OBJECTS -- The student will be able to:

- 05.01 Prepare sketches and descriptions of real property.
- 05.02 Use topographic map symbols including line work to enhance topographic maps.
- 05.03 Use proper line symbols and notes from road design standards to prepare plans and profiles.

06.0 READ AND PRODUCE DRAWINGS (ORTHOGRAPHIC) INVOLVING ORTHOGRAPHIC PROJECTION, SECTIONS, PICTORIAL, AND AUXILLIARY VIEWS -- The student will be able to:

- 06.01 Produce orthographic projections.
- 06.02 Produce typical road cross section drawings.
- 06.03 Produce auxiliary view drawings of utility conflicts.

13.0 PRODUCE DRAWINGS INVOLVING STANDARD EQUIPMENT AND COMPUTERS -- The student will be able to:

- 13.01 Draw a plat.
- 13.02 Draw an inlet structure.
- 13.03 Draw a record subdivision.
- 13.04 Draw a stress-strain diagram.
- 13.05 Draw a pump/lift station.

**ELEMENTS OF A SET OF WORKING DRAWINGS
AND THE CONTENTS OF EACH SHEET**

Order of Production	Sheet No. In Set	Title	Contents
7	1	Title Page	Site Plan Sheet Index Title of Drawings
5	2	Foundation Plan	Foundation Plan
1	3	Floor Plan	2 nd Floor Plan Materials and Finish Schedule
3	5	Exterior Elevations	Front & One Side Door Schedule
4	6	Exterior Elevations	Rear & Opposite Side Window Schedule
4.6	7	Schedules and Details	Wall Section Interior Elevations

**GUIDE FOR PRODUCTION OF A SET OF
WORKING DRAWINGS FOR A RESIDENCE**

SHEET NO. 3 FLOOR PLAN

Layout Floor Plan - Medium Weight Lines.
Add Dimension Lines - Medium Weight Lines.
Add Numerical Dimensions
Add Notes - Room Names - Titles
Profile Solid Portions of Walls, with heavy lines.
Dimensions should be from exterior face of studs to center lines
of interior partitions.

Use 4" thick frame walls both interior and exterior.
Draw materials & finish schedule.

SHEET NO. 4 SECOND FLOOR PLAN

Layout second floor plan by tracing over first floor plan. This
will assure alignment of key walls. Add items similar to first
floor plan.

SHEET NO. 5 EXTERIOR ELEVATIONS

Draw front and one side elevation. Develop vertical heights from
floor line, both upward and downward. Establish door and window
heads (6'-8").

SHEET NO. 6 EXTERIOR ELEVATIONS

Draw rear elevation & other side. This may be accomplished by
placing sheet with front elevation face down and tracing key
features and adding other features from the rear other side
elevation.

SHEET NO. 7 DETAILS

Develop wall section in conjunction with exterior elevations. Draw
interior elevations (Kitchen and Bath) Do not show dotted lines
indicating hinging of cabinet doors. Show hardware only.

SHEET NO. 2 FOUNDATION PLAN

Draw foundation plan by tracing over floor plan.

SHEET NO. 1 SITE PLAN

Draw plan of building as a roof plan. Show exterior walls as dotted lines. Letter in Title and Index of Drawings. Show all dimensions and notes. You may use scale on survey or any other convenient scale.

GENERAL

COMMENTS: Number all sheets consecutively in the lower right hand corner.
Letter your name directly above sheet number of each page.
Place border line $\frac{1}{2}$ " in from edge of paper.