FUNDAMENTALS OF ARCHITECTURAL DRAFTING
IDT 1310 (formerly IDT 1300)

Class Hours: 0.0  Credit Hours: 3.0
Laboratory Hours: 6.0
Revised: Spring 04

NOTE: This course is not designed for transfer credit.

Catalog Course Description:

A basic architectural drafting course that covers the fundamental techniques and principles necessary to understand and produce architectural drawings.

Entry Level Standards:

Basic math skills are necessary for success in this course. Students need to have completed a minimum of DSPM 0850. Although not required, possessing even minimal drafting skills will prove beneficial.

Prerequisite:

None

Textbook(s) and Other Course Materials:


Equipment:
1. Drafting kit:
2. Drafting dots or drafting tape
3. Triangles (8"- 45, 10"-30/60)
4. Erasing shield
5. White vinyl eraser (or pink pearl 400 A eraser - Optional)
6. Architect’s scale
7. Ames lettering guide
8. Drafting brush
9. 8” French curve or larger
10. Compass with F or H leads
11. 18” wide roll tracing paper (not vellum)
12. Circle template and other templates
13. Sand paper pad (Optional)
14. Lead holder as required by instructor
15. Leads - 2 each of H, 2H, 3H
16. Lead pointer
17. 18X24 drafting vellum - w/o titleblock

I. Week/Unit/Topic Basis:

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<thead>
<tr>
<th>Week</th>
<th>Topic</th>
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<tr>
<td>1</td>
<td>Introduction; Use of instruments</td>
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II. Course Objectives*:

A. Demonstrate appropriate architectural drafting and lettering skills as well as dimensioning rules and standards. I, II
B. Apply basic geometry to the drawings of geometric constructions. I, II
C. Represent objects using orthographic projection and sketches. I, II
D. Translate 2-D plans into 3-D drawings such as isometrics, axonometrics and obliques. I, II, III
E. Understand and apply construction methods, details, terminology, symbols, and materials. I, II, III

*Roman numerals after course objectives reference goals of the IDT program.

III. Instructional Processes*:

Students will:

1. Develop an architectural presentation methodology in order to communicate design solutions effectively in the architectural industry. Communication Outcome, Personal Development Outcome, Problem Solving and Decision Making Outcome, Transitional Strategy, Active Learning Strategy
2. Begin development of portfolio drawings for later acquisition of positions in the interior design field. Personal Development Outcome, Active Learning Strategy, Transitional Strategy
3. Develop research methodology using the internet, manufacturer's sources, as well as ERC sources. Communication Outcome, Technological Literacy Outcome, Information Literacy Outcome, Active Learning Strategy
4. Develop a professional work ethic by regularly attending class, being punctual, cooperating with fellow classmates and showing a positive attitude. Personal Development Outcome, Transitional Strategy, Active Learning Strategy

*Strategies and outcomes listed after instructional processes reference Pellissippi State’s goals for strengthening general education knowledge and skills, connecting coursework to experiences beyond the classroom, and
encouraging students to take active and responsible roles in the educational process.

**IV. Expectations for Student Performance***:

Upon successful completion of this course, the student should be able to:

1. Recognize and demonstrate proper use of drafting equipment. A, B, C, D
2. Understand how to read and use an architect's scale. A, B, C, D, E
3. Understand and demonstrate appropriate architectural lettering techniques. (ANSI standards) A, E
4. Demonstrate correct use of guidelines to accomplish spacing, uniformity of lettering. A, E
5. Be able to perform basic geometric constructions. (bisectors, perpendicular lines, tangents, etc...) B
6. Know terminology of geometry (angles, triangles, polygons, etc...) B
7. Understand proper methods for producing, spacing and placing orthographic projection to develop 2 or 3 views. C
8. Develop isometric drawings that include regular, inclined, and curved surfaces. D
9. Understand and correctly present axonometric and oblique drawings. D
10. Understand and correctly present a dimensioned floor plan and related elevations. A, D, E
11. Know fundamental ANSI standards for dimensioning and architectural symbols. A, D, E
12. Use and recognize correct symbols of architectural delineation of various types of plans. A, D, E
13. Execute and comprehend various details, such as wall details, fireplace details, stair details, etc. A, D, E
14. Know basic construction methodology and materials to use in subsequent lab courses. A, D, E

*Letters after performance expectations reference the course objectives listed above.

**V. Evaluation:**

A. Drafting Exercises: 60% of grade

The major component of this course will be drafting exercises. These exercises will assist in improving and perfecting the student's drafting skills while at the same time providing valuable information on design and construction methods.

B. Quizzes: 20% of grade

Announced quizzes will be given throughout the semester. The information covered on each quiz will be announced in class prior to the quiz. A quiz cannot be made-up for any reason.

C. Final Project: 20% of grade

The final project will incorporate information you have "absorbed" throughout the semester.

D. Grade Breakdown:
Projects .......................................... 60%
Quizzes ........................................... 20%
Final Project ..................................... 20%
TOTAL ........................................... 100%

E. Grading Scale:

A = 90-100   C+ = 77-79   D = 57-59
B+ = 87-89    C = 70-76    F = Below 56
B = 80-86     D+ = 67-69

VI. Policies:

A. Attendance Policy:

Class attendance for the full period is mandatory for all students. A significant portion of each project phase or aspect must be completed in class in order to receive credit for the work. You are responsible for all materials and information given during class. In the event of an absence, information about upcoming classes should be obtained from fellow classmates or the instructor prior to the next class period. Attendance will be taken only at the beginning of the class. Parking problems, car problems, and work conflicts do not constitute excused absences. You will be marked late at five minutes after the class is scheduled to begin. Habitual tardiness will result in the lowering of your final grade with FIVE tardies being equal to an absence. An absence (excused or unexcused) does not constitute reason for non-submittal of a project or exercise which is due on the day of the absence. If a project or exercise is due the next class period following an absence (excused or unexcused) you are still responsible for completion of such. Two unexcused absences are permitted without penalty. Students having three unexcused absences will receive a penalty of one letter grade for the semester. Students having more than three unexcused absences will receive an automatic failing grade for the semester. Verification for an excused absence must be submitted to the instructor upon return to class after the absence. The instructor will not request your excuse but will consider the absence unexcused if documentation is not provided.

B. Academic Dishonesty:

In keeping with college-wide policies, the student is expected to adhere to the general rules and regulations relevant to academic and classroom misconduct as outlined in the catalog.