PELLISSIPPI STATE COMMUNITY COLLEGE  
MASTER SYLLABUS  

ARCHITECTURAL DRAFTING: STUDIO I  
IDT 1310

Class Hours: 3.0  
Credit Hours: 3.0

Laboratory Hours: 3.0  
Revised: Spring 2013

NOTE: This course is designed for transfer credit to ETSU.

Catalog Course Description:

An introduction to architectural hand drafting and lettering standards including the appropriate use and application of symbols and drafting techniques necessary to understand and produce architectural plans and construction documents.

Entry Level Standards:

Basic math skills are necessary for success in this course.

Prerequisites:

None

Corequisites:

MATH 0800

Textbook(s) and Other Course Materials:


I. Week/Unit/Topic Basis:

<table>
<thead>
<tr>
<th>Week</th>
<th>Topic</th>
<th>Reading Assignment</th>
<th>Activity</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-2</td>
<td>Introduction to course; use of drafting instruments/tools; lettering</td>
<td>Chapters 1 &amp; 2</td>
<td>Exercises</td>
</tr>
<tr>
<td>3</td>
<td>Lettering; drafting conventions</td>
<td>Chapter 3</td>
<td>Exercises</td>
</tr>
<tr>
<td>4-6</td>
<td>Geometric constructions</td>
<td></td>
<td>Project 1</td>
</tr>
<tr>
<td>7-8</td>
<td>Orthographic projections</td>
<td>Chapter 4</td>
<td>Project 2</td>
</tr>
<tr>
<td>9-10</td>
<td>Axonometric and oblique drawings</td>
<td></td>
<td></td>
</tr>
<tr>
<td>11-12</td>
<td>Field Measurements &amp; Dimensioning</td>
<td>Chapter 8</td>
<td>Project 3</td>
</tr>
<tr>
<td>13-14</td>
<td>Drawing floor plan and details</td>
<td>Chapter 6 &amp; 12</td>
<td>Project 4</td>
</tr>
</tbody>
</table>
II. Course Goals*:

The course will

A. Demonstrate knowledge and care of and skill in using standard drafting tools. (II)
B. Demonstrate skills in architectural drafting and lettering. (II, III)
C. Demonstrate understanding of dimensioning rules and standards. (II, III)
D. Demonstrate understanding of the relationship of plan, elevation, and section drawings and ability to execute each. (I, II, III)
E. Develop ability to appreciate, evaluate, and demonstrate excellent craftsmanship. (I, II)
F. Demonstrate basic knowledge of geometry and geometric constructions. (I, II)

*Roman numerals after course objectives reference goals of the (Interior design Technology) program.

III. Expected Student Learning Outcomes*:

Students will be able to:

1. Recognize and demonstrate proper use of drafting equipment. (A, B, E)
2. Demonstrate ability to read and use an architectural scale. (A, C)
3. Understand and execute appropriate architectural lettering techniques (i.e., ANSI standards). (A, B, E)
4. Demonstrate correct use of guidelines to accomplish spacing and uniformity of lettering. (A, B, E)
5. Execute basic geometric constructions (i.e., bisectors, perpendicular lines, and tangents). (F)
6. Know terminology of geometry (i.e., angles, triangles, polygons, etc.). (F)
7. Understand proper methods for producing, spacing and placing orthographic projection to develop two- and three-dimensional views. (A, D)
8. Develop isometric drawings that include regular, inclined, and curved surfaces. (A, D, E)
9. Understand and correctly execute axonometric and oblique drawings. (A, D, E)
10. Understand and correctly execute a dimensioned floor plan and related elevations. (A, D, E)
11. Understand fundamental ANSI standards for dimensioning and architectural symbols. (A, D, E)
12. Understand and demonstrate standard line weight conventions in drafting. (A, E)
13. Demonstrate ability to recognize and use correct symbols of architectural delineation. (A, B, C, D, E)
* Capital letters after Expected Student Learning Outcomes reference the course goals listed above.

IV. Evaluation:

A. Testing Procedures: 15% of grade

B. Laboratory Expectations: 75% of grade

   1. Drafting Exercises – An important component of this course will be drafting exercises. These exercises introduce students to architectural drafting concepts and conventions and are intended to develop basic skills in the use of tools, lettering, and drafting. The exercises will account for 15% of the final grade.

   2. Drafting Projects - The major component of this course will be drafting projects. Each project will incorporate skills and information acquired through the exercises. The projects will account for 60% of the final grade.

C. Field Work:

   N/A

D. Other Evaluation Methods: 10% of grade

   10% of the course grade will be based on attendance, work habits, and attitude in class

E. Grading Scale:

<table>
<thead>
<tr>
<th>Grade</th>
<th>Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>92-100</td>
</tr>
<tr>
<td>B</td>
<td>80-85</td>
</tr>
<tr>
<td>C</td>
<td>70-74</td>
</tr>
<tr>
<td>D</td>
<td>60-65</td>
</tr>
<tr>
<td>B+</td>
<td>86-91</td>
</tr>
<tr>
<td>C+</td>
<td>75-79</td>
</tr>
<tr>
<td>D+</td>
<td>66-69</td>
</tr>
<tr>
<td>F</td>
<td>Below 60</td>
</tr>
</tbody>
</table>

Grading Breakdown

- Drafting projects .................... 60%
- Tests .................................. 15%
- Exercises ............................ 15%
- Classroom performance ............. 10%
- Total ................................ 100%

V. Policies:

A. Attendance Policy:

Pellissippi State expects students to attend all scheduled instructional activities. As a minimum, students in all courses (excluding distance learning courses) must be present for at least 75 percent of their scheduled class and laboratory meetings in order to receive credit for the course. Individual departments/programs/disciplines, with the approval of the vice president of Academic Affairs, may have requirements that are more stringent. In very specific circumstances, an appeal of the policy may be addressed to the head of the department in which
the course was taken. If further action is warranted, the appeal may be addressed to the vice
president of Academic Affairs.

B. Academic Dishonesty:

Academic misconduct committed either directly or indirectly by an individual or group is
subject to disciplinary action. Prohibited activities include but are not limited to the following
practices:
• Cheating, including but not limited to unauthorized assistance from material, people, or
devices when taking a test, quiz, or examination; writing papers or reports; solving problems;
or completing academic assignments.
• Plagiarism, including but not limited to paraphrasing, summarizing, or directly quoting
published or unpublished work of another person, including online or computerized services,
without proper documentation of the original source.
• Purchasing or otherwise obtaining prewritten essays, research papers, or materials prepared
by another person or agency that sells term papers or other academic materials to be presented
as one’s own work.
• Taking an exam for another student.
• Providing others with information and/or answers regarding exams, quizzes, homework or
other classroom assignments unless explicitly authorized by the instructor.
• Any of the above occurring within the Web or distance learning environment.

Please see the Pellissippi State Policies and Procedures Manual, Policy 04:02:00
Academic/Classroom Conduct and Disciplinary Sanctions for the complete policy.

C. Accommodations for disabilities:

Students who need accommodations because of a disability, have emergency medical
information to share, or need special arrangements in case the building must be evacuated
should inform the instructor immediately, privately after class or in her or his office. Students
must present a current accommodation plan from a staff member in Services for Students with
Disabilities (SSWD) in order to receive accommodations in this course. Services for Students
with Disabilities may be contacted by going to Goins 127, 132, 134, 135, 131 or by phone:
539-7153 or TTY 694-6429. More information is available at http://www.pstcc.edu/sswd/.

D. Other Policies:

Cell Phones

It is rude and inconsiderate of classmates and the instructor to allow a cell phone to ring or to
text message in class. No phone calls should be made or taken during class, and texting is
not permitted in class.