PELLISSIPPI STATE COMMUNITY COLLEGE
MASTER SYLLABUS

ARCHITECTURAL DRAWING W/LAB
CID 1210

Class Hours: 3.0                  Credit Hours: 4.0

Lab Hours: 3.0                   Revised: Fall 2010

Catalog Course Description:

An introduction to architectural drafting. The course will use CAD software to teach the basic elements of architectural drafting. The students will produce a set of architectural drawings that will include floor plan, site plan, building section, wall section and elevations. The computer will also be used to calculate quantities and produce reports.

Entry Level Standards:

Basic knowledge of a CAD application such as AutoCAD or Microstation is required. Students must be at college level reading, writing and math.

Prerequisites:

ENGT 1100

Textbook(s) and Other Course Materials:

Textbook:
Architectural Drafting Using AutoCAD 2004. Palma, Madsen, Goodheart-Wilcox Publisher

Reference:
Architectural Graphic Standards (McGraw-Hill)
Sweets Building Products Catalog & Sweets On-line
Standard Building Code (Southern Building Code Congress International, Inc.)

Materials:
1. Notebook
2. Architectural scale
3. Digital storage media

I. Week/Unit/Topic Basis:

<table>
<thead>
<tr>
<th>Week</th>
<th>Topic</th>
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<tbody>
<tr>
<td>1</td>
<td>Class objectives and organization; Login procedures for computer, file organization</td>
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<tr>
<td>2</td>
<td>Architectural drawing concepts; symbols</td>
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<tr>
<td></td>
<td>AutoCAD review, basic construction materials, AutoCAD layers, template files</td>
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<td>3</td>
<td>Architectural drawing concepts; introduction to floor plans</td>
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<td>AutoCAD; Blocks, entity modification &amp; manipulation</td>
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<tr>
<td></td>
<td>Reference: Arcat.com</td>
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<tr>
<td>Page</td>
<td>Topic</td>
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<tr>
<td>4</td>
<td>Architectural drawing concepts; continue floor plans</td>
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<tr>
<td>5</td>
<td>Architectural drawing concepts; continue floor plans</td>
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<tr>
<td>6</td>
<td>Architectural drawing concepts; continue floor plans</td>
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<tr>
<td>7</td>
<td>Architectural drawing concepts; site plans, framing plans</td>
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<tr>
<td>8</td>
<td>Architectural drawing concepts; continue with site plan, framing plans</td>
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<tr>
<td>9</td>
<td>Architectural drawing concepts; Views as applied to Architectural drafting; Elevations, Roof plan.</td>
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<tr>
<td>10</td>
<td>Architectural drawing concepts: wall sections &amp; details</td>
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<td>11</td>
<td>Architectural drawing concepts: continue with sections &amp; details</td>
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<tr>
<td>12</td>
<td>Architectural drawing concepts: Elevations, elevation symbols</td>
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<tr>
<td>13</td>
<td>Architectural drawing concepts: continue with elevations</td>
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<tr>
<td>14</td>
<td>Architectural drawing concepts: drawing set organization</td>
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<tr>
<td>15</td>
<td>Final Exam, Turn in bound hardcopy and electronic files</td>
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**II. Course Goals**:  

The course will:

A. Develop skills and knowledge necessary to convey basic information required by the building industry. (A,B )

B. Cover basic material symbology and equipment symbols and applications. (A )

C. Produce an Architectural drawing on the computer using AutoCAD. (A )

D. Cover basic building material sizes and applications. (A )

E. Introduce and use resource materials commonly used by the construction industry. (A,I )

F. Use other computer applications such as word processors and databases that are commonly used by the construction industry. (D,G )
G. Introduce office practices and standards or the construction industry. (A, I)

*Alphabet letters after course objectives reference Engineering Technology Program Educational Outcomes.

III. Expected Student Learning Outcomes*:

The student will be able to:

1. Produce basic drawings required for construction. (A, B, C, D, G)
2. Demonstrate the relationship of the different plan views. (A)
3. Demonstrate the relationship of plans, sections, and details. (A)
4. Demonstrate understanding of building materials, sizes and uses. (A, B, D, E)
5. Demonstrate knowledge of equipment and component symbology (B, C)
6. Dimension drawings according ANSI/industry standards (A, C, G)
7. Use reference materials (product literature, tables, charts and example drawings. (E, G)
8. Use codes (state and local) (E, G)
9. Use computer to produce set of architectural drawings. (A, B, C, G)
10. Plot set of drawings for evaluation. (A, C)
11. Demonstrate basic process of design. (A, G)
12. Use computer to write reports and proposals. (E, F, G)

* Capital letters after Expected Student Learning Outcomes reference the course goals listed above.

IV. Evaluation:

A. Testing Procedures:

Tests, quizzes, timed drawings can be used at the instructor's discretion.

B. Laboratory Expectations:

Drawings will be assigned for completion as laboratory exercises. These drawings will comprise the majority of student's grade. Instructor may evaluate and weight student participation and attendance in completion of projects.

Reports and other assignments will be assigned for completion as laboratory exercises. NOTE: Laboratory assignments cannot be completed during the scheduled class times. Students will be expected to schedule laboratory times to complete assignments.
C. Field Work:

The student will be expected to research additional resources (library, films, professionals, professional documents, staff, etc.).

D. Grading Scale:

- A: 90-100
- B+: 85-89.99
- B: 80-84.99
- C+: 75-79.99
- C: 70-74.99
- D: 60-69.9
- F: Below 59.99

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 the Learning Division, 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 the Learning Division.

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.

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 www.pstcc.edu/departments/swd/.