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

Catalog Course Description:

Computer-aided drafting skills for interior design applications using industry-standard software, including AutoCAD. Course covers 2-D and 3-D architectural drafting and rendering techniques.

Entry Level Standards:

Students are expected to be proficient in general computer usage and the Windows operating system and to have basic math skills, including understanding of rectangular coordinates.

Prerequisites:

IDT 1115: Fundamentals of Architectural Drafting

Corequisites:

None

Textbook(s) and Other Course Materials:


I. Week/Unit/Topic Basis:

<table>
<thead>
<tr>
<th>Week</th>
<th>Topic</th>
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<tbody>
<tr>
<td>1</td>
<td>Introduction to PSCC computer labs and AutoCAD; beginning to draw with AutoCAD</td>
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<tr>
<td>2</td>
<td>Basic AutoCAD commands</td>
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<tr>
<td>3</td>
<td>Basic AutoCAD commands</td>
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<tr>
<td>4</td>
<td>Drawing with AutoCAD</td>
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<tr>
<td>5</td>
<td>Drawing with AutoCAD</td>
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<tr>
<td>6</td>
<td>Drawing with AutoCAD</td>
</tr>
</tbody>
</table>
Adding text to drawings

Drawing floorplans: walls, windows, doors

Dimensioning a floorplan; drawing cabinet elevation

Drawing wall and cabinet section

Drawing a reflected ceiling plan and a power/voice/data plan

Drawing furniture plan; creating and extracting attributes for furniture specifications

Drawing a finish plan; creating a finish schedule, key and drawing notes

Creating presentation drawings using layouts and viewports; plotting drawings

Drawing a floorplan in 3-D using AutoCAD Architecture

II. Course Goals*:

The course will:

A. Execute CAD-generated architectural drawings including plans, elevations, sections, and details (II, III, IV, V, VI)

B. Perform CAD commands to include text, dimensions, and area calculations to architectural drawings. (II, III, IV, V)

C. Demonstrate proficiency using attributes to add specifications to and extract schedules from architectural drawings. (II, III, IV, V)

D. Understand and apply industry standards in creating, naming, and using layers (II, III, IV).

E. Use layouts and viewports to produce and plot multiple-view presentation drawings (I, II, III, VI, V).

*Roman numerals after course objectives reference goals of the Interior Design Technology program

III. Expected Student Learning Outcomes*:

Students will be able to:

1. Understand and apply basic Windows XP commands in managing data files. (A, B, C, D)

2. Understand the benefits of a CAD system as a drafting tool. (A, B, C, D)

3. Execute basic commands required for generating architectural drawings. (A, B, C, D)

4. Produce accurate architectural plans using CAD software. (A, B, C)

5. Produce accurate elevations, details, and sections using CAD software. (A, B, C)
6. Produce architectural CAD drawings with professional quality graphic standards. (A, B, C)
7. Dimension architectural drawings using CAD software. (B)
8. Place text within architectural drawings using CAD software. (B)
9. Use attributes to add specifications to and extract schedules for architectural drawings. (C)
10. Create finish plan, materials schedule, key, and construction notes. (C)
11. Use layering concepts to organize graphic elements using CAD software. (A, B, C, D)
12. Produce prints and plots from CAD software. (A)

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

IV. Evaluation:

A. Testing Procedures: 20% of grade

Tests and quizzes will be given from time to time to measure student achievement in applying what they have learned. Tests and quizzes may not always be announced in advance. Make-up tests will be given only for excused absences or at the discretion of the instructor. It is the student's responsibility to contact the instructor to make arrangements for a make-up test. Any make-up test must be taken immediately upon return after the absence and before the next scheduled class. No make-up test will be allowed more than one week after the original test date, and only one (1) make-up test per student will be allowed during the semester. Quizzes may not be made up.

B. Laboratory Expectations: 70% of grade

Projects and exercises make up laboratory expectations. During the first half of the course students will do a series of exercises, and these account for half of the laboratory expectations grade. During the second half of the semester students will complete an extensive project, which will account for the other half of this grade.

All assignments are to be e-mailed to the instructor, who will grade them and e-mail them back to the student. The student will plot each drawing to keep them in a folder to be turned in at midterm and before the final exam.

D. Other Evaluation Methods: 10% of grade

This portion of the grade will be evaluated by the instructor based on attendance, being on time to class, turning in assignments on time, participating in class discussions and activities, contributing to development of a positive, supportive learning environment for all students.

E. Grading Scale:

Final grades will be calculated as follows:

A: 92 – 100%
B: 82 – 91%
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/.

D. Other Policies:

Cell Phone Usage: It is disruptive and inconsiderate of classmates and the instructor to allow a cell phone to ring during class or to use other electronic devices. No phone calls may be made or taken during class, and text messaging is not permitted in class.

Laboratory Expectations: Laboratory time will be spent with the instructor explaining and demonstrating concepts and techniques and with the student applying the techniques. Students may not always finish every assignment during the lab period, but they must complete most of
every project in the classroom. All lab equipment may be used during the regular school hours whenever it is not in use by another class.

**Equipment & Supplies:** Students are expected to take utmost care when using equipment provided by Pellissippi State. No eating or drinking is permitted in the lab. Students are not to load unauthorized software on the computers; relocate computers, monitors, mice or keyboards; or copy, delete, or move files without direction by the instructor.

Each student has an account on the H: drive of the Pellissippi State server with a limited amount of memory. All drawings should be saved on the H: drive and on at least one other storage medium, such as a CD or jump drive. Please note that when the semester is over all students files are expunged.