PELLISSIPPI STATE COMMUNITY COLLEGE
MASTER SYLLABUS

SUSTAINABLE DESIGN
IDT 1205

Class Hours: 3
Credit Hours: 3
Laboratory Hours: NA
Date Revised: Spring 2011

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

Catalog Course Description:

This course will include the issues, challenges, and opportunities associated with designing interiors that use the principles of green building and sustainable design. An overview of various renewable energy technologies and sustainable design practices and their current applications.

Entry Level Standards:

The student is expected to be able to read at a required level in order to comprehend course materials and to write using correct spelling and grammar, and to conduct research utilizing Internet and pertinent learning resources and techniques.

Prerequisites:

NA

Corequisites:

NA

Textbook(s) and Other Course Materials:

Reading material will be taken from various textbooks.

Readings from various websites will also be assigned throughout the course.

Reading will be taken from:


I. Week/Unit/Topic Basis:
<table>
<thead>
<tr>
<th>Week</th>
<th>Topic</th>
</tr>
</thead>
</table>
| 1    | Introduction  
Fundamentals of Sustainable Building &  
Design |
| 2    | Green and Sustainable Product Certifications |
| 3    | **TEST #1**  
Green Issues - Indoor Air Quality and Lighting |
| 4    | Green Issues – Energy and Water Use  
Green Issues – Solar and Geothermal |
| 5    | **TEST #2**  
LEED |
| 6    | LEED  
Other Green Building Certifications |
| 7    | Other Green Building Certifications  
**TEST #3** |
| 8    | Regreen Guidelines |
| 9    | Regreen Guidelines  
**TEST #4** |
| 10   | Building Codes |
| 11   | Building Codes |
| 12   | Building Codes  
**TEST #5** |
| 13   | Testing and Material Standards |
| 14   | Testing and Material Standards  
**TEST #6** |
| 15   | Final Exam Period |

The above schedule is subject to change in the event of extenuating circumstances. Verbal changes to the schedule, etc. will most likely be given in class; so you are responsible for attending each class or for obtaining important information from fellow classmates.

**II. Course Goals**:  
The course will

A. Identify and discuss the key practices of sustainable design that can be incorporated into design projects. I,II,IV,V

B. Identify sustainable design strategies for reuse, renew and recycle in design projects. I,II,IV,V
C. Establish sustainable design goals for project development. I, II, IV, V

D. Become aware of relevant criteria and established guidelines for sustainable design. II, IV, V

E. Understand the responsibilities of various industry partners to improve a building’s performance. I, II, III, IV, V

F. Analyze costs and benefits of incorporating sustainable design measures. I, II, IV, V

G. Understand the relevance of building codes in relationship to the application of sustainable design principles. II, IV, V

H. Become aware of relevant tests and established guidelines that are performed on interior products and the importance of these even in light of sustainable design principles. II, IV, 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. Appropriately select sustainable materials, finishes and products. A-H


3. Adequately specify and select environmentally sensitive and sensible materials and finishes. A-F

4. Adequately select materials and finishes relative to codes and standards while being aware of sustainable design principles. A-H

5. Understand the criteria of LEED™, Built Green™, and USGBC along with other established guidelines for the criteria of sustainable design. C, D

6. Understand climate responsive design methods. A-F

7. Understand green power and its applications in interior design. A-F

8. Understand the use of daylighting in interior design. A-F


10. Understand energy efficient building and construction methods. A-H

11. Apply sustainable design principles while still keeping building codes and relevant tests and standards in mind. A-H

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

IV. Evaluation:

A. Testing Procedures: 50% of grade

Announced tests covering material from lecture as well as information from the textbook will account for 50% of your grade. Tentative dates for the tests are provided on the schedule. Any student having a 95 average for all tests will NOT be required to take the final exam.
A test can only be made-up with approval of the instructor. Prior arrangements must be made to constitute grounds for a make-up test. You must contact the instructor before the original test time in order to arrange a make-up test. Contact made after original test time will not be accepted. You will be required to take a make-up test the day you return from an absence. Any make-up test MUST be taken within a week of the original test date. You are responsible for making arrangements to take the make-up test. You may be required to take the make-up test in the testing center. Only one make-up test per semester will be allowed in any one class.

Final Exam: 10% of grade
A final exam scheduled during the exam period will account for 10% of your grade and will cover all material of the semester. Any student having a 95 average for all tests will be EXEMPT from the final exam.

B. Laboratory Expectations: 20% of grade

Projects: 20% of grade
Projects relative to course material will be assigned throughout the semester to reinforce the concepts discussed in class. These projects will account for 20% of your final grade.

C. Field Work: 20% of grade

Exercises and Assignments: 20% of grade
Exercises and assignments will be given throughout the semester that will help to reinforce the information given during lecture as well as prepare you for tests. These exercises and assignments will account for 20% of your final grade.

D. Other Evaluation Methods: 0% of grade

E. Grading Scale:

<table>
<thead>
<tr>
<th>Grading Scale</th>
<th>Grade Breakdown</th>
</tr>
</thead>
<tbody>
<tr>
<td>A = 90—100</td>
<td>Tests 50%</td>
</tr>
<tr>
<td>B+ = 87—89</td>
<td>Final Exam 10%</td>
</tr>
<tr>
<td>B = 80—86</td>
<td>Projects 20%</td>
</tr>
<tr>
<td>C+ = 77—79</td>
<td>Assignments 20%</td>
</tr>
<tr>
<td>C = 70—76</td>
<td>Total 100%</td>
</tr>
<tr>
<td>D+ = 67—69</td>
<td></td>
</tr>
<tr>
<td>D = 60—66</td>
<td></td>
</tr>
<tr>
<td>F = Below 60</td>
<td></td>
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</tbody>
</table>

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.
Pellissippi State Community College expects students to attend all scheduled instructional activities. The Interior Design Technology program expects students to be in attendance for all scheduled instruction activities. For courses that meet two times each week, a student is allowed two (2) absences without penalty. Each subsequent absence (whether excused or unexcused) will be penalized one letter grade. Thus, if your grade would otherwise be an “A,” the third absence will automatically lower the grade to B. Over five absences results in an “F” for the course. You may withdraw from the course with a “W” rather than an “F” until the deadline as provided by the College. (Please check the current academic calendar for date)

OR

For classes that meet three times a week:
Pellissippi State Community College expects students to attend all scheduled instructional activities. The Interior Design Technology program expects students to be in attendance for all scheduled instruction activities. For courses that meet three times each week, a student is allowed three (3) absences without penalty. Each subsequent absence (whether excused or unexcused) will be penalized one letter grade. Thus, if your grade would otherwise be an “A,” the fourth absence will automatically lower the grade to B. Over six absences results in an “F” for the course. You may withdraw from the course with a “W” rather than an “F” until the deadline as provided by the College. (Please check the current academic calendar for date)

Three tardies will count as one absence. Students who come to class late must see the instructor after class to ensure the absence is changed to tardy. Parking problems, car problems, babysitter problems, and work scheduling problems do not constitute excused tardies or absences.

Class attendance for the full period is mandatory for all students in this course. Most test material is given in class. The student is responsible for all materials and other information given during class. In the event of an absence, information about upcoming classes should be obtained from fellow classmates or the instructor before the next class period.

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 Phones**
It is rude and inconsiderate to classmates and the instructor to allow a cell phone to ring or to text during class. **No phone calls should be made or taken during class, and texting is not permitted in class. During class and exams, all cell phones are to be “silenced” and placed inside backpacks, purses or placed face down on the student's desk or table.**

**Laptops**
Laptops are allowed to be used in class for note taking. Any student who is found to be emailing, facebooking, myspacing or “surfing the net” will lose the privilege to use his or her laptop in class.