PELLISSIPPI STATE COMMUNITY COLLEGE  
MASTER SYLLABUS  
LIGHTING FOR INTERIORS  
IDT 2310

Class Hours: 3.0  
Credit Hours: 3.0  
Laboratory Hours: .0  
Revised: Fall 2015

NOTE: This course is designed for transfer credit to ETSU. (INTD 3205)

Catalog Course Description:

A study of the elements and principles of lighting as applied to the design of the luminous environment.

Entry Level Standards:

Basic reading, writing and math skills.

Prerequisites:

None

Corequisites:

None

Textbook(s) and Other Course Materials:

ISBN: 978-1609010867

I. Week/Unit/Topic Basis:

<table>
<thead>
<tr>
<th>Week</th>
<th>Topic</th>
<th>Chapter(s)</th>
</tr>
</thead>
</table>
| 1    | Introduction and Syllabus  
Assign - RBT project |                                      |
| 2    | Introduction to Quality Lighting  
Color and Directional Effects of Lighting | Chapters 1 & 2                     |
| 3    | Natural and Artificial Light Sources  
Assign - Light Fixture Design & Build project  
Guest speaker | Chapter 3                           |
| 4    | Energy, the Environment, and Sustainable Design  
Illumination and Human Health and Behavior  
RCP Exercise- Living Room & Large Kitchen | Chapter 4 & 5                      |
| 5    | Lighting Systems: Luminaires  
Project 1 DUE | Chapter 6                           |


II. Course Goals*:

The course will

A. Provide the student an understanding of lighting terminology. (I, II, IV, V)

B. Expose the student to lighting equipment and principles of applications (I,II, IV, V)

C. Prepare the student to evaluate lighting in various commercial and residential applications (I, II, III, IV, V)

D. Enhance the student’s understanding of the visual perception and the human eye. (I, 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. Apply lighting terminology in projects and through application. (A)
2. Demonstrate an understanding of the physics of light. (A, B, C, D)
3. Demonstrate visual perception through the application of various light sources. (A, B, C, D)
4. Use applicable lighting equipment and principles of application. (A, B, C, D)
5. Apply light level calculation techniques. (A, B, C)
6. Demonstrate lighting design goals and principles. (A, B, C, D)
7. Evaluate lighting in various commercial and residential spaces. (B, C)
8. Develop lighting concepts and reflected ceiling plans that meet specific physical, psychological and aesthetic requirements. (A, B, C, D)

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

IV. Evaluation:

A. Testing Procedures: **50% of grade** (*Tests - 30% and Final Exam - 20%*)

Two tests (30% of the final grade) are given during the course as provided on the syllabus. 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.

The final exam will cover material of the semester and comprises 20% of the final grade.

B. Laboratory Expectations: **50% of grade**

During the course students will do both projects and exercises that will combine skills acquired from lecture and readings. These projects and exercises are designed to provide opportunity for the application of learned concepts. Projects comprise 40% of the final grade and exercises comprise 10% of the final grade.

- **RBT Annual Student Light Fixture Design Competition (www.rbtcompetition.org)**
  Design a commercial lighting fixture per requirements of the competition. See application for submission requirements.

- **Light Fixture Design & Build Project**
  Design and build a residential light fixture. Focuses on creative use of materials, application of simple wiring techniques and introduction to light control and luminaire evaluation.

- **Group Research Project**
  Observe, record, and evaluate lighting in a commercial setting. Class presentation of findings, which will include subjective observations and quantitative data.

C. Field Work:

   N/A

D. Other Evaluation Methods:

   N/A
E. Grading Scale:

<table>
<thead>
<tr>
<th>Grade</th>
<th>Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>90-100</td>
</tr>
<tr>
<td>B+</td>
<td>88-89</td>
</tr>
<tr>
<td>B</td>
<td>80-87</td>
</tr>
<tr>
<td>C+</td>
<td>78-79</td>
</tr>
<tr>
<td>C</td>
<td>70-77</td>
</tr>
<tr>
<td>D</td>
<td>65-69</td>
</tr>
<tr>
<td>F</td>
<td>below 65</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 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.

Research indicates that students who regularly attend class are more successful than those who do not and thus it is expected that a student’s grade will be adversely affected by absenteeism. A student’s attendance in class is required in order that he or she may benefit from the expertise of the instructor, collaborate with classmates, participate in interactive learning, and develop the skills necessary to be successful in the design industry.

The student is responsible for all materials and other information given during class even if absent. The instructor will not be responsible for providing individual instruction to a student who has missed lecture material, lab time or assignment requirements due to the student’s absence. The instructor will not be expected to allow additional time for the completion of assignments and activities that are missed or late due to absences.

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 that 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 Disability Services (DS) in order to receive accommodations in this course. Disability Services may be contacted by sending email to disabilityservices@pstcc.edu, or by visiting Alexander 130. More information is available at http://www.pstcc.edu/sswd/.

D. Other Policies:

**Cell Phones:** Turn them off or silence them while in class, but most importantly PUT THEM AWAY.

**Laptops:** You are welcome to use your laptop/iPad/Netbook in class if it is relevant to class and taking notes. Facebooking, tweeting, ebaying, youtubing, craigslisting, pininteresting, etc. are NOT allowed during class.