AET 3223 – Architectural Drafting & Blueprint Reading

Course Description

Catalog Description: The study of principles of architectural drafting and the interpretation of architectural plans, codes and specifications related to light commercial and residential structures will be introduced.


Online Access: We will use our course area in WebCT extensively, so you should arrange to have a computer available with Internet access. You will also need a user ID issued by Information Technology Services.

Academic Accommodation: If you have a documented disability and wish to discuss academic accommodations, please contact me or the coordinator of the Office of Disability (581-6583) as soon as possible.

Course Objectives

Upon successful completion of the course, the student will be able to:

- Read and interpret blueprints for a residential and/or light commercial project.
- Demonstrate a functional level of literacy with respect to architectural codes, industry standards, and specifications.
- Demonstrate a functional level of literacy with respect to the application of standard construction materials in an architectural design.
- Solve fundamental architectural problems in a team context.
- Design a residential or light commercial project using accepted architectural conventions.

Assignments

Design/Drawing Project: Working in groups of 2, you will pick one of a set of given design problems. Each problem must evolve through concept, design drawings, & working drawings. As much as possible we will try to match project work with the topic being covered during that class session. Final drawings will be due at the end of the course. Drawing classwork will be assessed periodically. Detail instructions will be provided during the course of the project.

Construction Research: The class will form 10 teams of 2 each, and conduct research on a selected topic. You will then:

1. Make presentations on the selected aspect of light construction. Prepare a 10-15m PowerPoint presentation Prepare 5-6 questions for your classmates at the conclusion of your presentation.

2. Write a term paper based on your research. The University requires significant writing as a part of all general education integrated core courses. Therefore, this term paper is an essential part of the course. Detail formatting instructions will be provided at a later time.

The topic of your Construction Research may be from among the following:
Footings & foundations, Sill and flooring, Walls and ceiling, Doors and windows, Stairs, Roofing, Electrical, Plumbing, HVAC, Insulation
For each topic the paper/presentation must cover the following headings:
- Background/Purpose
- Types
- Materials
- Construction details
Tests: Three tests will be given during the course of the term. These will cover sections of the course covered thus far. Review and detailed instructions will be provided at a later time.

Midterm & Final Exams: Midterm exam will be based on all topics covered thus far, while the final exam will be cumulative. Review and detailed instructions will be provided at the time.

Grading

- Full credit will not be given for any work submitted late, unless prior arrangements have been made. Grades will be reduced by 5% for each day that the work is late.
- Class meets Mondays/Wednesdays at 2:00 pm sharp. Latecomers will lose credit. If you are going to be late for any reason you must let the instructor know beforehand.

Percentage Breakup of final grades

<table>
<thead>
<tr>
<th>Component</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Class work drawing (project work)</td>
<td>10%</td>
</tr>
<tr>
<td>Construction research presentation</td>
<td>10%</td>
</tr>
<tr>
<td>Construction research term paper</td>
<td>10%</td>
</tr>
<tr>
<td>Final Project drawings</td>
<td>20%</td>
</tr>
<tr>
<td>Tests (3)</td>
<td>15% (5X3)</td>
</tr>
<tr>
<td>Midterm</td>
<td>10%</td>
</tr>
<tr>
<td>Final exam</td>
<td>20%</td>
</tr>
<tr>
<td>Attendance</td>
<td>5%</td>
</tr>
</tbody>
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Typical Grading Scale

- 90 – 100 = A
- 80 – 89 = B
- 70 – 79 = C
- 60 – 69 = D
- 0 – 59 = F

Academic Honesty

You are expected to live by the university code of student conduct. Cheating, collaborating on assignments, or other acts of dishonesty, will not be tolerated and may result in your losing credit for this course.