Graduate Student Additional Assignment for ABS 643

Graduate students enrolled in ABS 643 will have one additional extensive independent assignment that shall be negotiated with the instructor. This assignment shall be due two weeks prior to the last class day. No exceptions!

Students should meet with the instructor to discuss the additional assignment then develop a written outline and timetable for the assignment for approval by the instructor. One key criterion: the choice of assignment must support the 2030 Challenge and the 2010 Imperative (http://www.architecture2030.org/home.html)

Presentation of this assignment will be at a mutually convenient time for all graduate students and the instructor. Undergraduate students will be invited to the presentation.

You have three options to consider for your individual project for the semester:

A. Design Guidelines
B. In depth Local Case Study
C. Individually-defined option

Details:

A. Choice A: design guide

Your first choice of assignment is the development of a “design guide” for one specific technique of lighting (not your assigned lighting technique defined under assignments for the entire class). Source of materials for development may be the current literature, the web, books, articles, photographs from actual sites and/or other materials that are appropriate. This material should be presented, in a PowerPoint or web-based presentation format and discussion with the class on a date to be determined. We will establish an order for presentation among the class members.

The guidelines are as follows:

1. Select a lighting technique that you believe is a worthy technique for your exploration, development, and presentation to the class. If possible, focus the design guide on a building or space.

2. Document a critical and in depth body of knowledge about the technique that you believe would be of interest and importance. This information may result from your extensive reading and exploration. The criteria list of what to include depends on the technique you select for the design guide and on your assessment of what information is valuable and important to share with others.

3. Include visuals and other similar materials in your PowerPoint or web-based presentation. Your document, or a summary of it, should be duplicated for distribution to other class members. A copy of the documentation and PowerPoint or web-based presentation should be provided for the instructor. I will grade from this presentation and from your verbal presentation to the class.

4. Organize a verbal/visual presentation of twenty minutes, including time for discussion, questions, and clarifications. I will need to know your a/v requirements at least a week before your presentation so I can have the appropriate equipment.
available. We will always have a computer projector available for class so I just need to know other requirements that you might have.

5. Format and specific content is your decision. You could use an approach similar to the formats used by C. Alexander in “Pattern Language”, Ed Mazria in “The Passive Solar Energy Book”, or Brown & DeKay’s “Sun, Wind, & Light”. Each part of the guide should be short, concise, specific, and illustrated. Plan schedule at least one appointment with me to discuss the project you select and how you plan to organize the verbal and written/visual presentation. Additional appointment time will, of course, be available of you need it. We will also make class time available to answer questions.

6. There are no other restrictions or guidelines on this assignment. Discuss it with me to refine your ideas. The bottom line is providing a comprehensive understanding of a daylighting technique through a design guide to your peers in class and gaining in-depth knowledge through the experience.

B. Choice B: case study

Your second choice of assignment is the development of a case study of a building or project that is located in the Las Vegas area. Since we will not have the opportunity in the class to discuss all major lighting projects of significance, this assignment will allow the class to obtain more depth in current or state of the art illumination in buildings. This material should be presented, in a PowerPoint or web-based presentation and discussion with the class on a date to be determined. We will establish an order for presentation among the class members.

The guidelines are as follows:

1. Select a project that you believe is a worthy case study for your review and for presentation to the class. The project MUST be in the Las Vegas area so you can conduct site visits. (Make sure, however, that you can collect information and data about the building).

2. Document a critical body of knowledge about the building, its performance, end use and other information that you believe would be of interest and importance. This information may result from site visits, review of journal articles or other publications about the building; visuals of the building; data about energy and lighting performance, architects, designers, engineers of record; daylighting, artificial lighting and lighting control strategies; building systems and energy management; awards; good and “not so good” attributes, etc. The criteria list of what to include depends on the project and on your assessment of what information is valuable and important to share with others.

3. Develop a brief (seven to ten pages) typed report about the building/project. Include visuals and other similar materials in appendices and in your PowerPoint or web-based presentation. Your document, or a summary of it, should be duplicated for distribution to other class members. A copy of the documentation and PowerPoint or web-based presentation should be provided for the instructor. I will grade from this presentation and from your verbal presentation to the class.

4. Organize a verbal/visual presentation of twenty minutes, including time for discussion, questions, and clarifications. I will need to know your a/v requirements at least a week before your presentation so I can have the appropriate equipment.
available. We will always have a computer projector available for class so I just need to know other requirements that you might have.

5. Format and specific content is your decision. Plan schedule at least one appointment with me to discuss the project you select and how you plan to organize the verbal and written/visual presentation. Additional appointment time will, of course, be available of you need it. We will also make class time available to answer questions.

6. There are no other restrictions or guidelines on this assignment. Discuss it with me to refine your ideas. The bottom line is providing a comprehensive understanding of a daylighted project to your peers in class and gaining in-depth knowledge through your case study experience.

C. **Choice C: Individually-defined option**

You may propose, outline and present your own individually-defined option for instructor approval. Scope and depth must be equal to options A & B, above. In writing description and outline to me then schedule an appointment to briefly discuss.

**Choice of option and an outline due: see syllabus.**