



ARCH 2330

BUILDING TECHNOLOGY II

January 2014

Assignment Name: Team Research Assignments

Computer Program(s): OpenLab, PowerPoint

Student Learning Objectives:

Upon successful completion of this assignment, the student will:

1. Be able to work as a team to define shared goals & divide responsibilities equitably.
2. Be able to thoroughly research a topic.
3. Be able to compose & present a professional quality presentation.
4. Successfully post the presentation to OpenLab.

Assessment:

To evaluate the student's achievement of the learning objectives, the professor will do the following:

1. Evaluate the teams ability to define shared goals and divide responsibilities equitably.
2. Evaluate the students research a topic.
3. Evaluate the team and the individual's ability to compose & conduct and oral presentation.
4. Evaluate the completeness of the presentation, attention to detail and timeliness of work.

Process:

1. As a team conduct some preliminary research to identify topics of research
2. Define shared goals & equitably divide responsibilities
3. Develop a uniform presentation format and share this among the team
4. Compile the work of individual students into a single uniform presentation
5. Post presentation the night before oral presentation
6. Conduct oral presentation in class
7. Make improvements to final presentation based on professor and class comments.

References:

1. All sources must be identified and credited. Include the book reference, author or URL.

Overview:

In order for you to get a better sense of the functionality and issues involved with your projects you will research some issues that affect your project. The objects of your research are items which will affect your construction documents. All of the topics studied will help you complete your drawing set. The more research and development you produce, the more information and details you will have available when you develop your construction documents.

Each team member should select a different section of the topic and must create 5 (minimum) to 7 slides (quality over quantity) in PowerPoint with typed explanation of their research. The explanation must include, in your own words, a summary of what you have discovered and learned during the process of your research.

Do not just cut and paste information gathered from other websites - you must understand and summarize the key points of your research and you must know what you are talking about. Each team member must present their information both in writing and in an oral presentation.

Team topic assignments: Each topic will be presented in class as listed in the table below:

Class number	Topic
4	ADA. Circulation including stairs, layout of program spaces (classrooms, offices, etc.)
5	Egress travel distances and codes, required corridor and exit door widths
5	Partition types and wet walls and their contents Partition walls other than gypsum such as fiber board, plaster blocks, etc...
7	Stairs monolithic concrete, - steel - metal pan
7	Means of Vertical Circulation: elevators traction verse hydraulic types, sizes, speeds and finishes , escalators Finishes, Furniture and Equipment:
8	Flooring and their assemblies, finishes related to specific program spaces & equipment. Research should feature systems which contain recycled content
9	Lighting fixtures for acoustical drop ceilings, open space, specific program spaces.

Points to consider when researching your material/assemblies

- Sizes and types readily available
- Attachment systems: how does it connect to the other parts the building
- Case studies & System Comparisons
- Architectural finishes, Fire resistance, Water Resistance, Durability, Sound Attenuation
- System joints and connections
- Construction time and cost
- Environmental implications and sustainability
- Historical systems compared to contemporary systems

Submittals & Deadline:

The final PowerPoint can be submitted as a single file (provided each team member is credited for the slides they have researched and presented) or each section can be posted separately.

The presentation must be posted the night before presentation so that your classmates can follow along during your presentation.

Oral Presentation:

The group presentation must start off with an outline of the presentation and each section should have a proper title slide and at least, one summary slide. Each group will present their work together & each student must be part of the oral presentation. At the end of the presentation Team members will be available for a Q & A session.

Comments by Other Teams:

After each presentation each of the other teams will be required to spend 2 minutes writing out a summary of the presentation re-emphasizing the most important points covered. These summaries will be immediately posted on OpenLab as comments to the presentation.

Grading

Each team member will be graded both as a group and as an individual.