

Evidence Based Design Research

Evidence Based Design is the process of basing decisions about the built environment on credible research to achieve the best possible design outcomes. The objective of this assignment is to research and identify various design recommendations that will support the successful design of a dental clinic. Students will work as a team to compile extensive research findings into a PowerPoint slide show and present their findings to the class on **November 18, 2009**. *This assignment is worth 50 points.*

Team 1: Codes and Regulations: ADA, Life Safety Codes, International Building Codes, OSHA, and HIPAA as well as local and state regulations. You should summarize the following:

- a. The classification of project and the O.L
- b. Egress door locations (Are two exits required? Why?)
- c. Corridor width, door widths, protruding objects
- d. Dead end corridors
- e. Fire classification for flooring , walls and ceiling finishes
- f. Fire standards for fabrics
- g. Accessible toilet design
- h. Signage
- i. Other

Note: Please address only the codes that pertain to dental spaces. For instance, this is a single level building and stairs will not be utilized.

Team 2: Human Behavior Research: This group will research topics such as ergonomics, space, territoriality, crowding, privacy, universal design, color, lighting, acoustics, and thermal comfort and provide detailed recommendations that should be incorporated into the design of a dental clinic.

Team 3: Finishes, FF&E and space standards: This group will research and identify the appropriate finishes, fixtures, furniture and equipment as well as the recommended space requirements needed for dental offices. In addition, this group should identify sustainable materials that would be appropriate for a dental facility. Identify a list of vendor names for equipment (ie: who makes the patient exam chairs, stools, x-ray machines, etc.), provide pictures and sizes of equipment and the amount of space required to operate the equipment. Provide and discuss examples of typical space standards for spaces that include this equipment (ie: lab, operatory, sterilization, equipment room, x-ray, etc.) Locate CAD symbols and provide classmates with a ¼" scale print out that can be used for tracing.

Directions: Each team will meet with the instructor to brainstorm their topic, delegate assignments and practice their presentation. Each team should provide summary handouts for all students and copy their slide presentation onto a CD for the instructor. The team should provide (as part of the student handouts) a reference page supplying all the resources used by the team. One spiral bound copy of all the team's research should be supplied to the instructor. Each team member should be identified on the title page of your notebook as well as the 1st page of your Power Point Presentation. Each team should plan to speak a minimum of 30 but not more than 45 minutes. Remember, you are basically teaching this portion of the project to your classmates. Be thorough in content and explanations.

Grading:

Each student must contribute to the team project. Students are to document the portion of the research they provide to the team effort. This documentation can include any research as well as manual efforts such as preparing the slide show. Each student must also present his or her portion of the findings in the presentation and provide any handouts that would benefit the class. A team evaluation form will be provided, but the project will be graded individually based on the amount of work done by the student and the quality of the information provided in their presentation. Please document all time on your time sheets and provide the instructor with a total per individual.

This research assignment is worth 50 points.

Due Date: This presentation is due on Wednesday, November 18th at 9:00 a.m.

Team Project Peer Evaluation

PLEASE KEEP THIS CONFIDENTIAL

Fold Before Turning in

I worked with the following students on the Research Assignment this semester in ID-440. **Including myself**, the rating below reflects my opinion of **OUR** contributions to the assignment

Rating Scale

10/9=Outstanding 8/7=Above Satisfactory 6/5=Satisfactory 4/3=Needs Improvement
2/1=Unsatisfactory

Team Members	Attendance	Punctual	Work Timeliness	Work Quality	Teampayer	Total

Comments:

I have logged _____ hours on this project. (Please refer to your time sheets for this information)

Please describe your responsibilities and contribution to the team effort:

Approved by: Student Evaluator's signature

Date: