Arch 509 006 – Hospital Design + Health

Professor:
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Office Hours: Monday 1:00 – 3:00 pm

Meeting Time: Thursday 1:00 to 4:00 pm, 2227 A&AB

Description:
This is a project-based course in collaboration with the Veterans Administration Hospital, Ann Arbor. Fall Semester we will be engaged in preprogramming activities and conceptual design for two VA hospital projects: 1) a large healing garden/landscape space and adjoining interior space of the hospital, and 2) one other current project being proposed at the VA Hospital, such as a specialty hospital clinic, outpatient clinic, or clinical research/training area. The projects will incorporate surveys and interviews, observations of how patients, visitors are currently using similar types of spaces, and would incorporate the VA hospital Patient Centered Care/Planetree concepts. Students will work closely with the hospital planning/design group in preprogramming activities for the project(s).

The course will involve active participation in the study and evaluation of existing facilities, meetings with the ‘client’ representatives for the project, review of exemplary design prototypes, and development of ideas and design recommendations for the new space. We will take one or two benchmarking visits to similar facilities. These activities will be supplemented with readings in theory and methods relevant to healthcare design.

Project deliverables will include a formal report of background and conceptual design recommendations to be presented to the VA Hospital Senior Executive Team, and compiled in a printed/online document. The Veterans Administration Hospital is looking for fresh ideas and new directions in healthcare design.
Course Goals, Assignments and Grading

Course Goal:
To provide practical experience in responding to real world problems while learning teamwork, project management, presentation and report writing skills.

Course Objectives:
Learn how to formulate and solve an open ended design pre-programming challenge.
Interact with clients when developing the design pre-program.
Work effectively in teams for design pre-programming.
Write and present a professional report.

Course Outcomes:
- Develop skills in defining problems and conceptualizing appropriate design solutions.
- Integrate and apply skills to pre-programming and conceptual design ideation.
- Develop skills in interacting with clients, obtaining necessary information, and developing a design pre-program.
- Prepare and deliver an effective presentation on the pre-program document and associated design ideas.
- Prepare a written report that describes the work process, presents the pre-program document and design ideas.
- Develop teamwork skills.

Individual Assignments:
Readings Report:
Individual report on selected topic based on readings and in-class discussion.

Benchmarking Report:
Comparison of benchmark projects with discussion of implications for the VA project.

Team Assignments:
Project Proposal:
Propose a focus for your pre-programming activities. Identify a set of research questions. Discuss the methods for your research - what populations you will study, how you plan to collect data, elaborate the specific research methods you will use, how you plan to analyze your data, and your expected kinds of outcomes.

Final Project Report:
Prepare a written final project report that describes your research questions, your work process, your pre-programming document and associated design ideas.

Prepare and deliver an effective presentation on the pre-programming document and your associated design ideas.

Course Grading:
Class Participation 10%; Team progress reports for data collection and conceptual ideas 10%; Individual assignments 20%; Team Project Proposal 20%; Final Project Report 40%.
SCHEDULE OF EVENTS

Sept 10 Course Overview: VA Hospital Project
Course organization and schedule.
Preprogramming activities for projects being proposed by the VA Hospital.
Team organization and research techniques.
Introduction to project proposal.

Assignment: Sponsor meeting preparation; Reading: Ulrich, R. Effects of healthcare environmental design on medical outcomes.

Sept 17 Project Kick-Off and Sponsor Information Session [meet at VA Hospital]
Introduction to hospital planning/design group and the course project(s).
Scope of preprogramming activities.

Assignment: Project proposal draft (project proposal delineates the project background, evaluative methods and deliverables of the student project team); Reading: Devlin, A. and A. Ameill, Health care environments and patient outcomes: A review of the Literature.

Sept 24 Patient Centered Care [meet at VA Hospital]
Introduction to the Planetree organization; discussion of concepts and philosophy.
[20 minute video about the Planetree organization’s concepts and focus]

Assignment: Development of research techniques; Reading: Kaplan, S. and Kaplan, R. Health, Supportive environments, and the reasonable person model.

Oct 1 Design + Health
Discussion of relevant research techniques; participatory engagement in metrics, data gathering and analyses techniques.

Assignment: Pretest of data collection methods and analysis. Pretest Report Due 5 pm Friday.

Oct 8 Team Meetings with Wineman + and VA Facility Architect
Meeting to review proposals and project status.

Assignment: Project Proposal - Due to Instructor: 5 pm Tuesday; Due to Sponsor: 5 pm Friday.
Oct 15 Research I
Benchmarking visit to similar facility; Data collection.

Assignment: Team progress report; Discussion of readings TBA.

Oct 22 Research II
Benchmarking analysis; Data collection.

Assignment: Team progress report; Discussion of readings.

Oct 29 Data Analysis Workshop: Data Analysis Techniques

Assignment: Summary report of data collection and analysis; Discussion of readings TBA.

Nov 5 Designing Solutions: Conceptual Ideas

Assignment: Team progress report

Nov 12 Designing Solutions: Conceptual Ideas

Assignment: Team progress report

Nov 19 Design Solutions: Conceptual Ideas Presentation Review [Meet at VA Hospital]

Dec 3 Final Report Workshop; Discussion of readings (TBA)

Assignment: Final report draft

Dec 10 Draft Final Report Review
Meeting with instructor to review project status

Assignment: Final report due 12/15

Dec 15 Final Presentations to VA Hospital Senior Executive Team [meet at VA Hospital]
Readings:


Center for Healthcare Design Websites:
http://www.healthdesign.org/chd/research
http://ripple.healthdesign.org/


