instructor
Ihab Elzeyadi, Ph.D., FEIA
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meetings:
meets weekly
Tuesday, 1:00 - 4:20 PM
Location: LA 405

format:
interactive seminar with illustrated discussions and a colloquium of student research and reflections on the readings.

readings:
reading packet

credits:
4cr. hr

ggrading:
P/N

prerequisites:
Ph.D. students, March Option I, Adv. March II & III students with instructors permission.

course objectives:
this seminar reviews the theory and history that frames the discourse of architecture and sustainable design. It will explore models and frameworks of sustainable design and substantive knowledge, including seminal metrics and techniques to quantify and measure sustainable design.

assignments:
(1) An annotated and illustrated time line of a topic under study with respect to three fields of knowledge including sustainable design.
(2) In-depth term-paper/Project Case Study providing critical review of a focused topic and/or application of the knowledge gained in examining an existing environment.

much is debated about sustainable buildings labelling and construction but less on the theory and science that guides the process of their conception. The objective of this seminar is to critically investigate the development of theories and frameworks that guide the field of sustainable design. Of equal importance is to review and analyze important milestones of the science and ethics related to the measuring and quantifying sustainable environments.

From a triple bottom line approach of people, planet, and profit, the seminar will critically analyze the history and theories of sustainable design on three scales: (1) mini-scale of the indoor environment; (2) micro-scale of the building environment; and (3) macro/mega scale of the urban environment. The objective is to critically investigate the substantive knowledge that guides the field and identify paths for measuring and quantifying it.

Measuring-up High Performance Buildings:
Theory and History of Sustainable Design