instructor
Ihab Elzeyadi, Ph.D., FEIA
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meetings:
meets weekly
Thursday, 2-5 PM
Location: TBA

format:
interactive seminar with illustrated lectures, on-site building-in-use performance evaluations & POE:
presentations by design teams related to the design process/evaluation of high-performative architecture.

prerequisites:
- Arch 4/591, 4/592,
- 6 cr. hrs of 4/584

priority registration for students in Elzeyadi Arch 4/585-6 Terminal studio.

assignments:
(1) A in-depth comparative analysis of the theory/design process/performance metrics of two LEED Platinum Projects.
(2) POE of a LEED Platinum Building or Basis of Design Report for Terminal Studio Project

course objectives:
this seminar explores theory and methods behind the making of high-performance buildings (HIPB) and their performance evaluation. It will introduce students to tools and techniques of building-in-use and POE performance assessments. The seminar will focus on the evaluation of HIPB in a hands-on learning approach engaging students in an on-going performance evaluation project of LEED Platinum Laboratories.

readings:
reading packet on Blackboard + req. book

credits:
4cr. hr

grading:
graded or P/N

much is known about high performance buildings (HIPB) construction and LEED certification but less on the process of their conception or their consumption. Every day innovations in superior-performing building technologies are achieved while ignoring the development of theoretical grounds that guide their application or rigorous evaluation investigating their actual performance. The objective of this seminar is to critically investigate green buildings and test the concepts behind their design. Of equal importance is to test how these buildings actually perform "in reality." There is a great deal of "green wash" scenarios that proclaim great performance of products and/or LEED and green buildings. In this seminar we will investigate a sample of these buildings and technologies thoroughly to uncover this hypothesis using a systemic framework exploring green buildings physical performance and their impact on the triple bottom line of people, planet, and profit. The seminar will focus on green schools as an exemplar building typology to apply this framework. The course is planned to cover three aspects of HIPB: (1) theory; (2) design process [space (form and mass), surface (envelope), and substance (materiality/details)], and (3) HIPB evaluation and assessment methodologies, tools, and techniques.