

48767 Transdisciplinary Thinking Course Description

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Course Description:

Transdisciplinary Thinking is a compendium of Architectural, Engineering, and Construction (AEC) practice, methods, and theories with an emphasis on how the AEC professions can more effectively work together by understanding each other's roles, responsibilities, and professional perspectives. Through readings, reporting, role playing, discussions, and papers the learning objectives of this course are for students to understand how and why each of the AEC professions think and act the way they do in a variety of professional situations. By learning through perspective-taking students will, whatever the student's final practice situation, be capable of understand the complexity, personal and professional responsibilities, risks, and thinking behind the decision-making and actions undertaken by others in the delivery of AECM services.

The course will cover all the subjects in CSI's *The CSI Project Delivery Practice Guide*, the required textbook for the course, supplemented by other readings and professional materials produced by the AEC industry.

Learning Objectives:

At the end of the course, students will be able to:

- Describe and discuss how the design, engineering, and construction industries approach their respective professions in terms of roles and responsibilities and how they think differently in terms of problem-solving and decision-making.
- Be conversant with the legal obligations that all AEC parties undertake in project design and delivery and the methods and tools available to manage obligations, conflicts, and risk.
- Apply techniques available to AECM professionals to take active roles in both the design and delivery processes.
- Apply transdisciplinary thinking as an AECM professional and how this way of thinking can be adapted to each student's personal and professional interest.



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