

CIV\_ENG330-0  
Engineering Project Management

Credits/Contact Hours: 1 credit; 4 hours/week  
Instructor: Jason Brown  
Office hours: By appointment  
Office: Remote  
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Text Book: Recommended: Dykstra, Alison. Construction Project Management. 1st ed. Kirshner Publishing Company, 2011.

Other supplemental material: Industry publications and reading material provided in shared drive

Catalog description: Techniques for coordinating decisions and actions of various parties in the design and construction of civil and environmental engineering projects. Delivery systems; preconstruction services; project planning; cost control and value engineering; bidding.

Pre-requisites or co-requisites: Jr/Sr only-NO P/N

Elective

Specific goals for this course: The student will be able to explain the stages of the capital project delivery life cycle, the project management focus areas necessary to progress from one stage of the life cycle to another, and have a high-level understanding of the interrelationships between the life cycle stages, focus areas, and their associated processes and controls based on project-specific value drivers, the risk environment, and the chosen delivery model.

Expected outcomes: Upon completion of this course, the students should:

- Understand the stages of the project management life cycle;
- Understand the various roles and their associated responsibilities within the project life cycle;
- Understand the process areas that require definition, management, and control within the capital project life cycle;
- Understand, at a high level, the decisions to be made and activities to be performed during project planning;
- Understand, at a high level, the decisions to be made and activities to be performed during project execution;

- Have a working knowledge of the terminology used in the delivery of a capital project;
- Have a working knowledge of additional resources that can be relied on to deepen their understanding of the material covered in class.

Specific goals for this course: 1, 3, 4, 6, 7