CENTER FOR INNOVATIVE TECHNOLOGIES MASTER COURSE DOCUMENT

CET 285 Civil Engineering Technology Construction Management Capstone

Course Description: Students respond to a request for construction management services and complete a project that demonstrates integrated competencies in estimating, scheduling, communicating, and teamwork.

Prerequisites(s): CET 230 and CET 235 Corequisite(s): None

Lecture Hours: 2	Lab Hours: 3			Credit Hours: 3
Lab Fee: \$105	Supplemental Fee: \$0		\$0	Purpose:
☐ Transfer Assurance Guide Course (TAG) ☐ T			Transfer Module	Course (TM)
Course Format: Lec/Lab			Grading: A/B/C/F/I	
Delivery Method: □ Web	□ Hybrid ⊠ Classroom			
Semesters Offered: ⊠ Fall	□ Spring	⊠ Su	ımmer	

Course Primary Text:

Title: No Textbook Required	Edition:
Author(s):	
Publisher:	

Supplemental Materials:

Preliminary plans of project to be used as the project for the capstone.

Course Outcomes:

1	ABET (A), Assessed: - an ability to apply the knowledge, techniques, skills and modern tools of the discipline to narrowly defined engineering technology activities.
2	ABET (D), Assessed: - An ability to function effectively as a member of a technical team.
3	ABET (E), Assessed: - An ability to identify, analyze, and solve narrowly defined engineering technology problems.
4	ABET (F), Assessed: - An ability to apply written, oral, and graphical communication in both technical and non-technical environments.
5	ABET (G), Assessed: – an understanding of the need for and an ability to engage in self-directed continuing professional development.
6	ABET (H), Assessed: – an understanding of an a commitment to address professional and ethical responsibilities, including a respect for diversity.
7	ABET (I), Assessed: – a commitment to quality, timeliness, and continuous improvement.
8	ACCE 8, Assessed: - Discuss basic principles of ethics in the construction industry.

Course Topics:

Week 1	Introduction to the course and CM Project – pick teams
Week 2	Intro to Law – US Law; Lab: meet at project site for "client interview"

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Week 3	US Labor Law, Davis-Bacon, Prevailing Wage; Lab: Discuss preconstruction activities
	associated with project, finding information on permitting, applications, etc.
Week 4	Contracts and Elements in a Contract, AIA Documents; Lab: Discuss value engineering and
	utilization of life cycle costs
Week 5	Lab: Group work – "working drawings" must be submitted for external review
Week 6	Safety – Trench; Review assessment of working drawings and continue group work
Week 7	Safety – Steel/Fall Protection; Lab: Discuss value engineering and utilization of life cycle
	costs
Week 8	Managing Risk, Value Engineering; Lab: Workers Compensation Laws in Ohio
Week 9	Managing Risk Continued, Costs of Injuries (Direct vs. Indirect); Lab: Perform Mid-term
	assessment of group members (by group members)
Week 10	Capstone project
Week 11	Capstone project
Week 12	Capstone project
Week 13	Capstone project
Week 14	Capstone Project Presentations
Week 15	Capstone Project Presentations, Course wrap-up

Methods of Evaluation/Assessment

Tests – 2 @ 16% = 32%		
Written Capstone Proposal – 30%		
Capstone Presentation – 30%		
Team Member Evaluations – 8%		

Course Keeper: John Buttelwerth
Course Keeper: Carol Morman

Date Completed: 09/09/13 Updated: September 16, 2016 Updated: February 17, 2018 Updated: March 15, 2019