Reflection:

Course Reflection

The Senior Thesis Capstone project made me feel like everything I learned as an Architectural Engineering student at The Pennsylvania State University is useful in my goal to become a Project Manager in the real world. In addition, to applying my math, science and engineering skills to real world scenarios, it really improved my communication skills. In doing so, I was able to broaden my knowledge about construction management to know more about how the design teams such as mechanical and structural engineers operate. Overall, I believe the techniques, skills and use of modern technology I experienced in this program has provided the foundation for a successful career in the industry.

CPEP Reflection

The Capstone E-Portfolio is used to make students' learning objectives and work of the Senior Thesis Capstone Project public on the internet. Showcasing the various stages of the project was facilitated with CPEP, and it will be available online for the next five years for students and industry professionals to see. It is my hope that future Penn State classes will be able to learn from the class of 2013 as much as I have learned from the experience and from the classes before me.

ABET Assessment

The chart located on the following page represents this author's personal assessment of the course, not the instructors.

ABET Outcome Survey

Important Note: These outcomes reflect a personal (student) assessment of the course, not the instructor's assessment.

ABET Outcomes for AE 481W/482	Outcome not able to be assessed	Level of ability demonstrated but below acceptable	Minimum acceptable level of ability demonstrated	More than minimum level of ability demonstrated
	(Score of 0)	*(Score of 1)*	*(Score of 2)*	*(Score of 3)*
a. An ability to apply knowledge of mathematics, science, and engineering	☐	☐	☐	☑
b. An ability to analyze and interpret data	☐	☐	☐	☑
c. An ability to design a system, component, or process to meet desired needs	☐	☐	☐	☑
e. An ability to identify, formulate, and solve engineering problems	☐	☐	☐	☑
f. An understanding of professional and ethical responsibility	☐	☐	☐	☑
g. An ability to communicate effectively	☐	☐	☐	☑
h. The broad education necessary to understand the impact of engineering solutions in a global and societal context	☐	☐	☑	☐
i. An ability to engage in life-long learning	☐	☐	☐	☑
j. A knowledge of contemporary issues	☐	☐	☐	☑
k. An ability to use the techniques, skills, and modern engineering tools necessary for engineering	☐	☐	☐	☑

practice				
o. Engineering design capabilities in at least two (2) of the (3) basic curriculum areas of architectural engineering, and that design has been integrated across the breadth of the program	☐	☐	☐	☑
p. Communication and interaction with other design professionals in the execution of building projects	☐	☐	☐	☑