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	☐	☐	X	☐
b. An ability to analyze and interpret data	☐	☐	☐	X
c. An ability to design a system, component, or process to meet desired needs	☐	☐	X	☐
e. An ability to identify, formulate, and solve engineering problems	☐	☐	☐	X
f. An understanding of professional and ethical responsibility	☐	☐	☐	X
g. An ability to communicate effectively	☐	☐	☐	X
h. The broad education necessary to understand the impact of engineering solutions in a global and societal context	☐	☐	X	☐
i. An ability to engage in life-long learning	☐	☐	X	☐
j. A knowledge of contemporary issues	☐	☐	X	☐

k. An ability to use the techniques, skills, and modern engineering tools necessary for engineering practice	☐	☐	☐	X
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	☐	☐	X	☐
p. Communication and interaction with other design professionals in the execution of building projects	☐	☐	X	☐

AE481W/482 Course Reflection:

During the year long, Senior Thesis course, I was given the opportunity to encapsulate the previous five years' worth of architectural engineering education. Studying and analyzing FDA Building One in terms of existing conditions and the thought process/approach of the entire engineering team, taught me a lot. The progress of a real life project differs vastly from the ideology taught in the classroom. However, the fundamentals of the classroom helped me breakdown the project into manageable portions. The exercise to provide improvement/redesign opportunities was very interesting. It certainly provided the biggest challenge of any of my AE coursework. Carrying out the in depth research and presenting my idea was a rewarding but at times frustrating process. To condense all of the ideas and research in a short framework was quite the challenge. I hope to carry some of these lessons with me as I pursue a career in this field.

CPEP and Discussion Board Reflection:

The creation and maintaining of the CPEP site was probably the most enjoyable part of the exercise. The ability to point anyone to the site to track progress of the work was satisfying. The Discussion Board wasn't a tool that I utilized much, as I felt speaking to someone via phone or in person was far more helpful. Although I felt, seeing posts on the various discussion threads gave me insight and ideas into how I could approach some portions of my project.