

Advisor: Dustin Eplee

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	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	X
b. An ability to analyze and interpret data	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	X
c. An ability to design a system, component, or process to meet desired needs	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	X
e. An ability to identify, formulate, and solve engineering problems	<input type="checkbox"/>	<input type="checkbox"/>	X	<input type="checkbox"/>
f. An understanding of professional and ethical responsibility	<input type="checkbox"/>	<input type="checkbox"/>	X	<input type="checkbox"/>
g. An ability to communicate effectively	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	X
h. The broad education necessary to understand the impact of engineering solutions in a global and societal context	<input type="checkbox"/>	<input type="checkbox"/>	X	<input type="checkbox"/>
i. An ability to engage in life-long learning	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	X
j. A knowledge of contemporary issues	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	X
k. An ability to use the techniques, skills, and modern engineering tools necessary for engineering	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	X

Advisor: Dustin Eplee

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	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	X
p. Communication and interaction with other design professionals in the execution of building projects	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	X

Senior Thesis Reflection

The entire process of AE Thesis has been beneficial to my learning experience. I went through two specific periods of learning. During the fall semester, while performing background research on the existing building/project I learned a lot about the current design. I learned about my building, how the systems operated, the reasons for the implementation of the design and a lot about what the designer considered during the design process. During the spring semester I was able to apply the background knowledge that I gained from architectural engineering to creating my own design alternatives for Des Places. I was able to consider most of the aspects that the original designer considered while applying them to my own design. The independent work involved in my senior thesis prepared me well for the tasks that I will encounter in my future profession.

CPEP Reflection

Creating and maintaining a website helped me stay on task during the thesis process. Knowing that my thesis sponsors and the owner of the building may be looking at my website to gain information was a great incentive to work hard on the content and appearance of the website. The website also kept me accountable for the work that I have done so far. Professors were easily able to tell if I had met the goals of my self-imposed work schedule.