

Reflective Cover Letter

1. During this 7-week course I absorbed an immense amount of information pertaining to heat transfer and its principles applied to real life problems. This course was expected to be intense and delivered at a fast pace due to the 7-week time frame of this summer semester. As each week approached, I prioritized each assignment deadline and made time for team group discussions required for calculation comparisons and project design discussions. During this course I was able to strengthen skills I have acquired throughout my degree, which in return assisted me in completing the complex assignments and tests required for this course.

One thing about this class that has been different from any other class I have taken was the group HW assignments. My group consisted of 3 other peers other than myself, and we were only permitted to submit a single PDF to be graded for each HW assignment. Due to this single submission, we were required to take time each week to discuss our HW calculations and compare our answers. I found that this exercise helped fine tune my calculation procedures and identify mistakes I would not have caught in my original HW attempt.

Another thing that was brand new to me when taking this class was the exposure to using the COMSOL software. My first attempt at using COMSOL was a bit overwhelming but after completing several HW problems I now feel more confident with using its features and appreciate the complex calculations it can handle.

2.
 - 1.) The learning demonstrated in this course would be primarily found in my test reflections. These reflections showcase my own solutions to the test questions along with an analysis of mistakes when compared to the professors' posted solutions. These reflections give direct insight into the strengths and the struggles faced when solving the solutions of these complex test problems. See Test #2 Reflection: <https://sites.wp.odu.edu/jberr-75/test-2-reflection/>
 - 2.) I saw the most improvement in the ability to navigate COMSOL. My first assignment was very difficult to get through and when comparing my lab report to my group it seemed like I had missed important information. Based on the last COMSOL report I did the proof of improvement was undeniable. Although my results were not flawless, I demonstrated the ability to solve complex problems using the software and present a clean and organized report. See lab report 5-30: <https://sites.wp.odu.edu/jberr-75/lab-report-5-30/>
 - 3.) I am currently an engineer at Daikin, a global HVAC company. Our specific plant designs and builds air-cooled and water-cooled chillers used for industrial