

1. From the Thermal Applications course, I have learned a lot of different avenues of professional careers that produce various types of energy. Some examples are AC and Refrigeration, Otto Cycle (gas engine), Diesel Cycle, and Rankine Cycle (power plants). What helped me learn the most was attending the classes and asking questions when I had trouble understanding. This class helped me dissect problems by looking at the main objective and slowly working towards the goal. [Test 2](#), which was about the Rankine Cycle, provided a good example. I was having trouble understanding the question until I realized that focusing on sections at a time and reading the questions helped me better understand. Another example that helped me benefit from this course was Professor Ayala taking the students to a Dominion Energy natural gas power plant. This provided a hands on experience by physically seeing what we were learning and applying it to real world applications.

1. What helped me learn the best was the homework.
2. The areas where I feel I have mostly improved on was inspecting the appendix, located in the back of the book, and helping me think critically by writing down my reasons for my answers on the Test. Ex. [Test 1](#).
3. I see the course content of the Rankine Cycle being a field or career that I would pursue. I think this because I found it so interesting how our daily lives depend on the energy of a power plant.
4. What has helped me is stay organized with my work and write a descriptive analysis of why I chose this route. Ex. [Test 3](#)
5. I think I would use this skill immediately once I become an engineer.
6. I believe it is important because it is the building blocks for what is to come. In school, you only learn about the particular and ideal conditions. Once in a professional career it is all real.
7. I might be starting to use everything I've learned once I get out of college and into a professional setting.
8. I would tell myself to stay on top of the coursework that is given and don't be afraid to ask questions, because if you didn't understand, more than likely somebody else didn't understand either.

1) After taking this class, in what ways have you improved as an engineer? What brought about those improvements?

1. What has brought me improvement is thinking critically about a task, being as detailed as possible, and don't believe other engineers' work because we are human and make mistakes.

2. My biggest accomplishment in the course for tests 1 and 2, I was right at and above the upper quartile of both test.

3) What skills did you master in this course? How are they reflected in the assignments (HW, tests, etc.) Be specific.

3. What skills helped me was understanding how to get all the properties before answering any of the questions. It was something that Professor Ayala drilled into us. However, this helped me think critically, which made the questions easier. We had to find all the state's properties and P-V and T-S diagrams for all homework and tests.

4. I feel my strengths are finding the states and the properties, referenced in [Test 2](#). What I felt was my weakness was overcomplicating the problems. I would often send myself down a rabbit hole when I was not sure about something.

5. Before I was going to take this course, I felt I was on for an interesting ride because after Thermodynamics 1, I didn't think I would do too well. Now looking at it, I feel I have benefited very much from this course and took away a lot of thermodynamic and engineering knowledge.