



HEAT TRANSFER MECH-420 Spring 2019

ANONYMOUS CLASS ASSESSMENT

Often there is discussion regarding the development of independent thinkers and how to achieve? The development of the independent mindset is never achieved by providing all the questions and all the answers! All researchers will agree that at the beginning of any research endeavor that one will never know all the problems and will never have all the answers. But the hallmark of the independent mind is having a problem solving mentality, having the ability to self-learn, having the ability to extrapolate data and to form conclusion, and having the fortitude to be unafraid to seek answers from multiple independent sources. Academic institutions at all levels have a formidable task for the 21st Century to transform student learners from an environment where “likes” and “dislikes” are more important than learning and demonstrated knowledge. Institutions that are successful will provide the next generation of independent thinkers that will face significant challenges in the next 20 years, considering the massive rate of technological advancement.

In the next 20 years, the world will see a cure for Cancer, will reach out to the heavens and will start to colonize other planetary worlds, will discover new materials that will forever change our understanding of physics and time, and will be able to see further back into the past than ever imagined and will begin to understand the origins of “everything”. Academic leaders are faced with the challenge of teaching materials and concepts that have not changed for 100 years and to prepare students to solve problems that we can’t even imagine today, and to be able to develop tools based upon on concepts that have not even been conceived. We live in a daunting academic environment, and the only solution is to focus on student development that embraces discovery and inquiry, and to develop a mindset that “rejects” being told all the answers and to develop a mindset that expects to be challenged and to understand that it’s “ok” to not know the answers. Rather the most important skill that we can impart to students is to develop an understanding of the “process” to find and to understand answers to unknown problems and questions. It will be these students and these institutions that will contribute to the long term survival and expansion of human kind.

Please answer the following briefly:

1. Engineering design is the execution of applied physics for the development of technical solutions for challenges facing the survival of mankind; and, the technical communications of those solutions. Please comment on if you think MECH-420 Heat Transfer and the focus on parametric design has enhanced your skills and ability as a student, and as a future engineering professional, relative to engineering design thought and technical communications. Why or Why Not? Thank you.
2. What suggestion would you provide to future students to enhance their understanding and performance within MECH-420 Heat Transfer?



ENGINEERING DESIGN & PARAMETRIC THINKING

1. MECH-420 with Dr. Berry has pushed me to limits I did not know I had. But I can say with 100% certainty I am a better student and will be a better engineer as a direct result of it. Taking this course with Dr. Berry was a blessing. You will work hard in this course, but you will MASTER the concept as they apply to the real world.
2. Yes. If you would have told me that @ the end of the term I would be able to do all this, I wouldn't have believed you. If I can figure this out, I can figure anything out.
3. I think more engineering courses should focus on the way to think & develop processes, rather than plugging #'s into eqns.
4. This course has encouraged deeper thought and effort to solve problems. It emphasizes being able to see a problem and even not knowing an answer, and being able to start working towards it.
5. I think heat transfer is important in engineering design because heat transfer is everywhere and relates to everyday life. We should expect to encounter some similar problems in the future.
6. It has enhanced my ability and my understanding. The course required enhanced thoughts and incorporated technical aspects. It's a hard course with a knowledgeable professor. I did everything and still struggled.
7. Yes because it made me understand the concepts more.
8. Yes, because this class has taught me to not only think hard about the problem, but that hard work and dedication can pay off in the long run.
9. I feel that this class as a whole has pushed me to better understand what is expected of me in any taste. The final project took me 30 hours of combined time but I was one proud dude once I printed it.
10. Sure, but we have to put in the effort.
11. I think MECH-420 has enhanced my skills. I like that we focus on the processes and not on the correct answer because I think the process is what should be learned to have a deeper understanding.
12. It is how I world approach in real life when considering design parameters for a complex approach. I am now confident with this process.
13. Yes. It greatly helped me develop these skills. By needing to understand the process and to make roadmaps.
14. I would say it has become it has shown me how design can be broken down into steps that guide you to your objectives.
15. This course has much valuable material that I know will be used in the future. My skills have been sharpened, though there is more to do.
16. It has enhanced my skills, but admittedly as through fire. The project/test made me have the really think outside the box to apply what I already know. More projects, but more time/instruction on the effective use of EXCEL, which is awesome.
17. The project was something I felt I would be doing at work.

18. The final project was very helpful in setting me up to re-create a real work engineering analysis of a heat exchanger.
19. I think this class has enhanced my critical thinking skills. It has pushed me to think quicker and for alternate ways on how to do something.
20. Yes I do think it has helped as I have been able to apply what I have learned to my thesis already and to my hobbies of trucks.
21. Yes Mech-420 has enhanced my skills and abilities as a student. This course has so much heat knowledge in it. Very helpful for society development and learning development.
22. MECH-420 was helpful in the sense that you can work out problems via logic and critical thinking. I would say my design thought improved via road maps.
23. Yes it has enhanced skills greatly making you think more critically than most other courses to understand parametrically how everything works.
24. Yes, I feel I can create efficient systems that could be applied in real life situations.
25. Yes, even if I don't directly use the problems solving approach as roadmaps can be used for any problem.
26. It has, as it has at the very least raised my awareness of and skill level with regard to multi-equation problems where nothing is directly proportional and that sometimes guesses must be made and referenced.
27. Yes, the final project really tested my skills of technical communication and parametric design.
28. This class has definitely pushed me to become a better engineer. The problem solving techniques that we use will help me in my future career.
29. Yes, at the least I have developed a good mindset on how to critically solve problems.
30. Yes the course has enhanced my skills overall due to the different mindset needed to solve the problems.
31. I absolutely believe that MECH-420 has enhanced my thinking skills and ability as a student. I have learned how to learn efficiently in large part due to this class.
32. I believe I gained many lasting and fundamental skills in this course and the concepts were taught very well.
33. MECH-420 has provided me with knowledge of heat transfer as well as knowledge to make engineering decisions, and for that I am thankful.
34. I think heat transfer is a useful concept for a select few jobs. These skills are some I don't think I will use in my specific job.
35. It has assisted me with learning the subject of heat transfer and using EXCEL for engineering related problems.
36. Yes, greatly. The equations and solutions are very complex. It teaches students to be organized and to prepare multiple approaches to any situation.
37. MECH-420 is a difficult class and not all the answers are always available. This class has improved my skills by forcing me to put more effort to actually learn the material.
38. Taught me to work hard and to learn things on my own through teamwork and research.
39. I believe my understanding of science has increased, as well as, my critical thinking in approaching real-world problems.

40. Yes, I think the project had the largest impact on this.
41. Yes and Yes. Learning with a focus on parametric modelling and applications certainly aids in ones understanding of all facets of the subject being learned—not just the final solution. This is the understanding that is achieved.
42. Yes this helped me to analyze the world in more depth.
43. Yes, the design project/exam brought to light some issues that may occur in real life. Through this class I learned a lot about the process and how to approach problems.
44. Heat transfer did further my understanding of many engineering principals, but it takes a lot of practice to be able to understand the material enough to be able to apply it across different situations.
45. Yes, I feel that Heat Transfer has enhanced my abilities as a student and as a future engineer. This subject ties together many previous courses including Thermo and Fluids. It has enhanced my understanding of how many real-world systems work.
46. Understanding Heat Transfer has allowed me to grow as an engineer and is very useful but also very complex based on the conditions.
47. It has increased my skills to work hard and put more time and effort into things that I don't fully understand.

FUTURE STUDENTS ADVICE

1. GO HARD. You will need to be successful, but you will be paid back 10 fold.
2. I would suggest understanding the fundamental skills first.
3. Make sure you understand the concepts of the course.
4. Be prepared to work hard.
5. Have a better road map of the course outline. If a project is to be given give students enough time. I sacrificed too much time out of study for other finals. But here I am. Let's do this.
6. Practice. Practice. Practice.
7. Do the work. Think about WHY you're doing what you're doing.
8. Pay attention to the little details. They mean everything.
9. Take good notes and ask questions.
10. Make sure to practice every week.
11. Pay attention to class and you learn a lot.
12. Do the problems. Go to class.
13. STUDY!!
14. In the future, be ready to devote a lot of time to this course; try not to do it in a 20 credit term so you can devote more time to it.
15. Work your butt off and study hard!
16. Shoot more baskets; each practice problem quiz 10x or more.
17. Try to put information you learn in terms you understand.
18. Review and re-write class notes/PowerPoints!!! Understand fundamentals first. Everything builds, so don't get behind. Put in 2hrs/day.
19. You need to do as many problems as possible. Study the road map.
20. Practice. Practice. Practice.
21. Sit up close in class to read the board.
22. Do the HW and understand the process.
23. Start homework early and ask questions always.
24. It's gonna be rough no matter your preparation.
25. Go back and thoroughly look through your notes as often times the concepts tend to make sense.
26. Study in-class problems. DO HW!
27. Follow the road map; stay on top of your work, and GO HARD ALWAYS.
28. Think of the problem in a real world application and ask yourself: What is it that I'm really solving?"
29. Stay ahead.
30. Do the homework. All topics are understandable with practice. Somebody had to write the textbook.
31. Study. Study. Study. DO HW.

32. Pay attention and think critically.
33. Understand the principals as quickly as possible is essential.
34. PRACTICE!
- 35. HOMEWORK. My understanding went up significantly once I started doing it.**
36. STUDY! Ask for help and work on practice problems.

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1) I do not think so. Besides the extra credit and Exam 2 projects there was no other problem that involved modeling. If there was time spent in class on this, then I would say yes.

2) Take good notes and ask questions

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i think more engineering courses should focus on the way to think & develop processes, rather than plugging #'s into eqns. to future mech-420 students, i would suggest understanding the foundational skills first

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1. Yes, because it made me understand the concepts more.
2. make sure you understand the concepts of the course.

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1. Why, Because this class has taught me to not only think hard about the problem, but that hard work and dedication can pay off in the long run

2. bc prepared to work hard

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Suggestion would be to have a better road map of the course outline. If a project is to be given, give students enough time.

But here I am. Lets Do this.

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- Sure, we have to put in the effort
- Use the lectures on youtube to help learn the material (done by a university in California on our book)

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2. What suggestion would you provide to future students to enhance their understanding and performance within MECH-420 Heat Transfer?

• I think MECH 420 has enhanced my skills, I like that we focus on the processes and not the correct answer, because I think the process is what should be learned to have a deeper understanding.

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2. What suggestion would you provide to future students to enhance their understanding and performance within MECH-420 Heat Transfer?

1. It is how I would approach a project in real life when constructing design parameters for a complex apparatus. I am now more confident with this process.
2. Practice. Practice. Practice.

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2. What suggestion would you provide to future students to enhance their understanding and performance within MECH-420 Heat Transfer?

1) Yes, it has greatly helped me develop these skills. By needing to understand the process, and make a roadmap.
2) Do the work, think about WHY you're doing what you're doing.

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2. What suggestion would you provide to future students to enhance their understanding and performance within MECH-420 Heat Transfer?

1) I would say it has because it has shown me how design can be broken down into steps that guide you to your objectives

2) Pay attention to the little details, they mean everything.

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2. What suggestion would you provide to future students to enhance their understanding and performance within MECH-420 Heat Transfer?

This course has much valuable material that I know will be used in the future. My skills have been sharpened, though there is more to do.

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It has enhanced my skills, but admittedly as through fire. The project/test made me have to really think outside the box to apply what I already knew... - more projects, but also more time and/or instruction on the effective use of excel, which is an awesome tool I don't really know how to use effectively

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1. The project was something I felt I would be doing at my work.
2. Material was difficult to receive

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The final project was very helpful in setting me up to re-create a real world engineering analysis of a heat exchanger.

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I think this class has enhanced my critical thinking skills. It has pushed me to think quicker and for alternate ways on how to do something

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1. Yes I do think it has helped as I have been able to apply what I have learned to my thesis already and my hobbies of trucks.
2. Make sure to Practice every week.

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① Yes Mech-420 has enhanced my skills And abilities as a student
This course has so many Heat knowledge in it. Very helpful
for society development And engineering development.

② Pay attention to class And you will learn a lot.

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1. Yes. If you would have told me that @ the end of the term I would be able to do all this, I wouldn't have believed you. If I can figure these out, I can figure anything out.

2- Do the problems. Go to class.

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2. What suggestion would you provide to future students to enhance their understanding and performance within MECH-420 Heat Transfer?

Yes, in a sense. Showed problem solving and
preparation and practice is needed
2 PRACTICE

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DN BACK 

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2. What suggestion would you provide to future students to enhance their understanding and performance within MECH-420 Heat Transfer?

1) Yes it has enhanced skills greatly making you think more critically than most other courses to understand parametrically how everything works.

2) In the future, be ready to devote a lot of time to this course, try not to do it in a 20 credit term or

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1. Yes, I feel I can help create efficient systems that could be applied in real life situations.

2. Work your butt off and study hard!

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Yes, even if i don't directly use the problem solving approach and roadmap can be usefull for any problem.
Shoot more baskets, each practice problem quiz 10x or more.

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1) It has, as it has, at the very least, raised my awareness of and skill level with regard to multi-equation problems where nothing is directly proportional and that sometimes guesses must be made and refined.

2) Try to put the information you learn in terms you understand. For example, I liked making flow charts as they were with a good shorthand.

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2. What suggestion would you provide to future students to enhance their understanding and performance within MECH-420 Heat Transfer?

1. Yes, the final project really tested my skills of technical communication and parametric design.
2. Renew + re-write class notes / powerpoints !!! Understand fundamentals first. Everything builds, so don't get behind. Put in 2hrs / day ;)

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2. What suggestion would you provide to future students to enhance their understanding and performance within MECH-420 Heat Transfer?

1.) This class has definitely pushed me to become a better Engineer, the problem solving techniques that we use will help me in my future career

2.) You need to do as many problems as possible studies

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2. What suggestion would you provide to future students to enhance their understanding and performance within MECH-420 Heat Transfer?

1. Yes, at the least, I have developed a good mindset on how to critically solve problems.

d. Practice, Practice, Practice

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2. What suggestion would you provide to future students to enhance their understanding and performance within MECH-420 Heat Transfer?

1. I believe I gained many lasting and fundamental skills in this course and the concepts were taught very well.

2. do the HW & understand the process

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2. What suggestion would you provide to future students to enhance their understanding and performance within MECH-420 Heat Transfer?

1. MECH-420 has provided me with knowledge of heat transfer as well as knowledge to make engineering decisions, and for that I am thankful.

2. Start homework early and ask questions always.

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2. What suggestion would you provide to future students to enhance their understanding and performance within MECH-420 Heat Transfer?

1. I think heat transfer is a useful concept for a select few jobs. ~~Other~~ These skills are some I dont think I will use in my specific job.

2. Its gonna be rough no matter your preparation

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1. It has assisted me with learning the subject of heat transfer and using excel for engineering related problems.

2. Make sure to include industrial integration.

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2. What suggestion would you provide to future students to enhance their understanding and performance within MECH-420 Heat Transfer?

1. I like the project but I don't think it was beneficial to use excel. In my experience, I had to spend about 40 hrs on the project but most of that was figuring out why excel wasn't working properly
2. Read the book and learn on your own, because it's very complicated and Dr. Berry's teaching style can be hard to understand.

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2. What suggestion would you provide to future students to enhance their understanding and performance within MECH-420 Heat Transfer?

Mech 420 is a difficult class and not all the answers are always available. This class has improved my skills by forcing me to put more effort in to actually learn the material.

Suggestion: Study in class problems, DO HW!

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2. What suggestion would you provide to future students to enhance their understanding and performance within MECH-420 Heat Transfer?

1) taught me to work harder and learn things on my own thru teamwork
and research teamwork

2) follow the road map, stay on top of your stuff, and Go Hard Always

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Prof. Barry has a Excellent lecturing, but sometimes I can't really follow up his idea. (May need some slow down), the rest of everything is wonderful!

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I believe my understanding of science has increased, as well as my critical thinking in approaching real-world problems. To Future students: think of the problem in a real world application and ask yourself, "What is it that I'm really solving?"

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- 1) YES and YES. Learning with a focus on Parametric modeling as application certainly aids in one's understanding of all facets of the subject being learned - not just the final solution. What elements affect the final solution? This is the understanding that is achieved.
- 2) Do the homework. All topics are understandable with practice. Somebody had to write the textbooks...

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- 1) yes it has helped me analyze the world in a more detailed way
- 2) study, study, study. Do HW

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① yes, the design project / Exam 2 brought to light some issues that may occur in real life. Through this class I learned a lot about the process and how to approach problems

② pay attention, think critically. Would have been nice to look at parametrics in class (changing in or size for example)

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-Heat transfer did further my understanding of many engineering principles, but it took a lot of practice to be able to understand the material enough to be able to apply it across different situations. The communication side, not so much.

-Understanding the principles as quickly as possible is essential.

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1. Yes, I feel that Heat Transfer has enhanced my abilities as a student and future engineer. This subject ties together many previous courses including Thermo and Fluids. It has enhanced my understanding of how many real-world systems work. 2. Practice!

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Understanding heat transfer has allowed me to grow as an engineer and is very useful but also very complex based on the conditions

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1. It is, because technological advancement keep humanity moving forward.

2. HOMEWORK. My understanding went up significantly once I started doing it.

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Please answer the following briefly:

1. Engineering design is the execution of applied physics for the development of technical solutions for challenges facing the survival of mankind; and, the technical communications of those solutions. Please comment on if you think MECH-420 Heat Transfer and the focus on parametric design has enhanced your skills and ability as a student, and as a future engineering professional, relative to engineering design thought and technical communications. Why or Why Not? Thank you.
2. What suggestion would you provide to future students to enhance their understanding and performance within MECH-420 Heat Transfer?

1.) It has increased my skills to work hard and put more time and effort into things that I don't fully understand
2.) STUDY! Ask for help and work on practice Problems.

DETACH FROM EXAM

ANONYMOUS CLASS ASSESSMENT

PLEASE COMPLETE AND PLACE IN YELLOW ENVELOPE IN FRONT

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2. What suggestion would you provide to future students to enhance their understanding and performance within MECH-420 Heat Transfer?

1) This course has encouraged deeper thought and effort to solve problems. It emphasizes being able to see a problem and even not knowing an answer, be able to start working towards it.

2). Always practice your free throws. (in class problems)

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I think heat transfer course is important in engineering design because heat transfer is everywhere and relates to everyday life. We should expect to encounter some similar problems in the future.

The class is overall comprehensive, but I think the equation sheet provided at the beginning of semester should be kept consistent.