University of Pittsburgh

2247 - Teaching Survey Summer 2024

Summer 2024 - Matthew Barry MEMS 0051 - INTRODUCTION TO THERMODYNAMICS - 1030 - Lecture

Created **Tuesday, August 20, 2024**

Courses Audience: 10
Responses Received: 9
Response Rate: **90.0%**

Report Comments

Teaching Surveys

Included in this report:

- Summary of responses to scaled questions
- Response breakdowns
- Student comments
- Results to instructor added custom questions (if applicable)

Understanding and using student feedback:

- We have resources to help you interpret and use results including our faculty worksheet with guided prompts and space to record summaries of feedback, actions, and outcomes.
- Members of our Pedagogy, Practice, & Assessment team are available for consultations and can help with:
  - Interpreting OMET results and developing a course of action if necessary.
  - Exploring various methods of assessment to improve teaching.
- In the future:
  - Discuss, teach, and model giving meaningful feedback with your students and give them multiple opportunities to practice giving feedback.
    - Gather important information about students at the beginning of the term by giving a pre-course survey.
    - Check in with students half way through the term by giving a midterm course survey.
- The Teaching Center offers multiple resources to support teaching and learning.

Office of Measurement and Evaluation of Teaching (OMET)
Contact us

University Questions

Summary table

Scale: strongly disagree (1), disagree (2), neutral (3), agree (4), strongly agree (5)

	Invited Count	Response Count	Response Rate	Mean	Mode	Median	SD
The instructor stimulated my thinking.	10	9	90.00%	4.56	5	5.00	0.53
The instructor was enthusiastic about teaching the course.	10	9	90.00%	4.67	5	5.00	0.50
The instructor presented the course in an organized manner.	10	9	90.00%	4.56	5	5.00	0.53
The instructor maintained an environment where students felt comfortable participating.	10	9	90.00%	4.56	5	5.00	0.53
The instructor maintained an environment where students felt comfortable seeking assistance.	10	9	90.00%	4.33	5	5.00	0.87
The instructor provided helpful feedback.	10	9	90.00%	4.22	5	4.00	0.83
Assignments contributed to my understanding of the subject.	10	9	90.00%	4.44	4	4.00	0.53
Overall of All Questions	70	63	90.00%	4.48	-	-	0.63

Overall effectiveness

Scale: ineffective (1), only fair (2), competent (3), very good (4), excellent (5)

Question	Invited Count	Response Count	Response Rate	Mean	Mode	Median	SD
Express your judgment of the instructor's overall teaching effectiveness.	10	9	90.00%	4.44	5	5.00	0.73

Response breakdown

1. The instructor stimulated my thinking.

Strongly disagree	0	0.00%
Disagree	0	0.00%
Neutral	0	0.00%
Agree	4	44.44%
Strongly agree	5	55.56%
Total	**9**	

2. The instructor was enthusiastic about teaching the course.

Strongly disagree	0	0.00%
Disagree	0	0.00%
Neutral	0	0.00%
Agree	3	33.33%
Strongly agree	6	66.67%
Total	**9**	

3. The instructor presented the course in an organized manner.

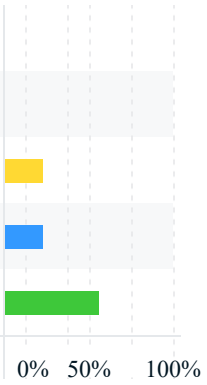
Strongly disagree	0	0.00%
Disagree	0	0.00%
Neutral	0	0.00%
Agree	4	44.44%
Strongly agree	5	55.56%
Total	**9**	

4. The instructor maintained an environment where students felt comfortable participating.

Strongly disagree	0	0.00%
Disagree	0	0.00%
Neutral	0	0.00%
Agree	4	44.44%
Strongly agree	5	55.56%
Total	**9**	

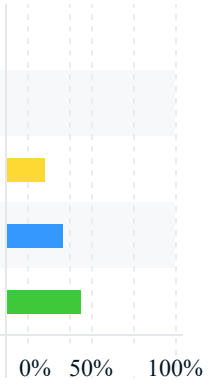
5. The instructor maintained an environment where students felt comfortable seeking assistance.

Strongly disagree	0	0.00%
Disagree	0	0.00%
Neutral	2	22.22%
Agree	2	22.22%
Strongly agree	5	55.56%
Total	**9**	



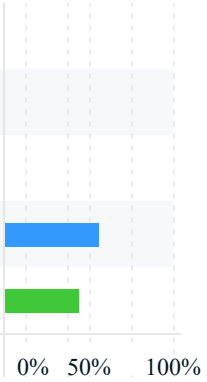
6. The instructor provided helpful feedback.

Strongly disagree	0	0.00%
Disagree	0	0.00%
Neutral	2	22.22%
Agree	3	33.33%
Strongly agree	4	44.44%
Total	**9**	



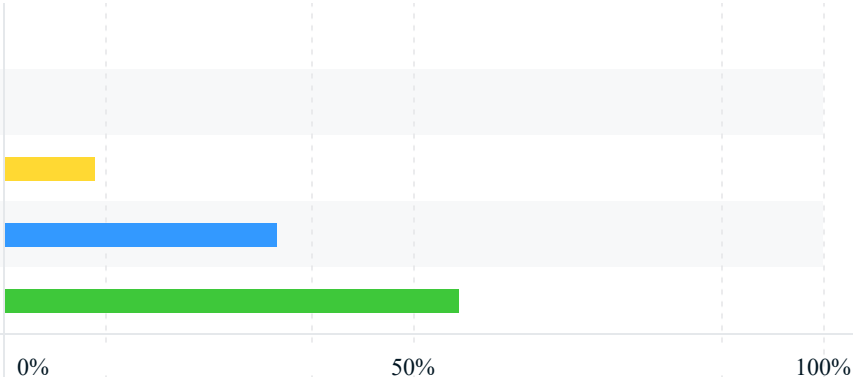
7. Assignments contributed to my understanding of the subject.

Strongly disagree	0	0.00%
Disagree	0	0.00%
Neutral	0	0.00%
Agree	5	55.56%
Strongly agree	4	44.44%
Total	**9**	



Express your judgment of the instructor's overall teaching effectiveness.

Ineffective	0	0.00%
Only fair	0	0.00%
Competent	1	11.11%
Very good	3	33.33%
Excellent	5	55.56%
Total	**9**	



Comments

What did the instructor do to help you learn?

Comments
The importance of thermodynamics
My instructor presented the class in an amazingly efficient manner that allowed me and the other students to grasp the lecture content much better than we would have with other professors.
Provided a lot of practice material and quality lectures to go back and rewatch
Dr. Barry's enthusiasm for thermodynamics and the real world applications absolutely helped me learn. I like being a very real person, so the examples given helped contextualize the content and how I can use this subject in my full–time engineering career. I also enjoyed the flipped format, as I felt it gave me the flexibility to rewatch lectures before class and exams.
Gave frequent real–world examples related to lecture material. Especially in the later lectures, this greatly contributed to my understanding of the material.

What could the instructor do to improve?

Comments
None
Nothing
i don't know that theres much else dr. barry could do to improve the class as a whole, i think its very well run overall
I feel like the only bit of improvement could be with the organization of the course. I understand trying to squeeze a 15 week course into 12 weeks is a near impossible task, but some of the lectures seemed like they could have been combined. I know the course is being revamped right now so just some food for thought.
N/A

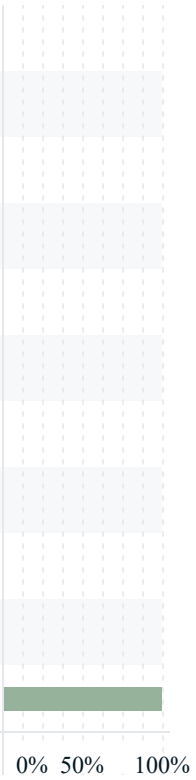
Do you have any other information that you would like your instructor to know?

Comments
Excellent job
Thank you for your work in thermo and circuits this semester!
n/a
Thermo isn't easy, but I really appreciate your passion for it and how you recognize that with so many ways to solve the problems, it can be a little overwhelming at times. I also really like how much you talked about the real world applications of what we've been learning – something that I feel is lost in other classes.
:)

Swanson School of Engineering Questions

Please select the major you are enrolled in. Check at most 2 programs. If you are currently a freshman or an undeclared major, select your anticipated major from the list (or select Undeclared if you are unsure).

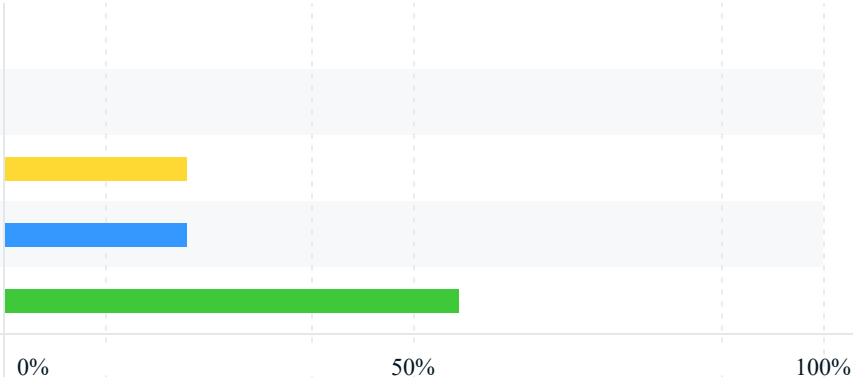
Undeclared	0	0.00%
Bioengineering	0	0.00%
Chemical Engin…	0	0.00%
Civil Engineering	0	0.00%
Computer Engi…	0	0.00%
Electrical Engin…	0	0.00%
Engineering Sci…	0	0.00%
Environmental …	0	0.00%
Industrial Engi…	0	0.00%
Materials Scien…	0	0.00%
Mechanical En…	9	100.00%
Respondent(s)	**9**	



The instructor was accessible.

The instructor was accessible.

Strongly disagree	0	0.00%
Disagree	0	0.00%
Neutral	2	22.22%
Agree	2	22.22%
Strongly agree	5	55.56%
Total	**9**	



Please provide advice to future students: What could you have done to improve your learning in this course?

Comments
Learning was excellent
Do the top hat and attend the lectures these are the most important aspects of the class.
gone to more office hours and asked more questions in class
Go to office hours!! I'd honestly wait until I was thoroughly confused, but I probably should have gone sooner. Dr. Barry will be happy to explain your question and make sure you understand the content, use that to your advantage! Dr. Barry is the man.
Do the homework and do the practice. Everything is given to you assuming you do the work.

Engineering Undergrad Courses

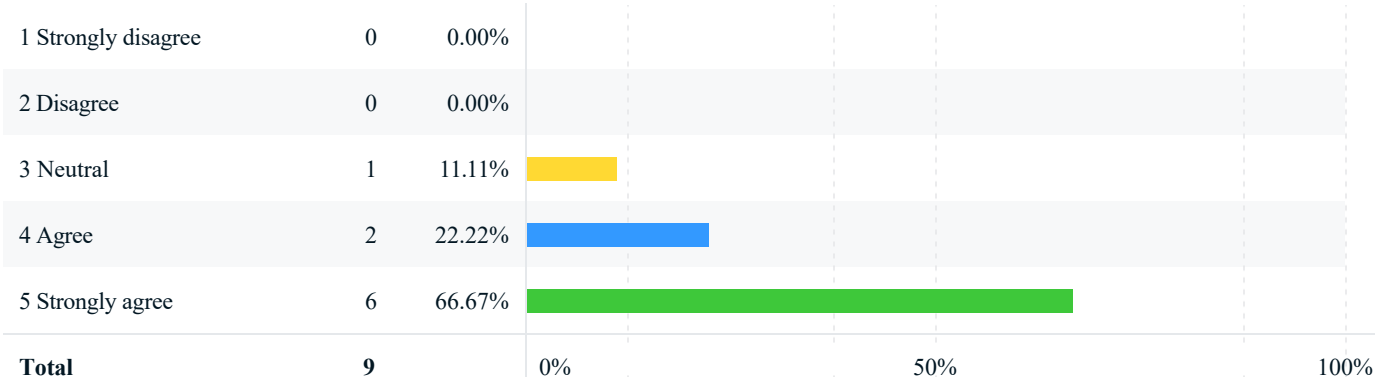
Please rate the degree to which this course has improved...

Question	Results		
	Response Count	Mean	Standard Deviation
Your ability to identify, formulate, and solve complex engineering problems by applying principles of engineering.	9	4.56	0.53
Your ability to identify, formulate, and solve complex engineering problems by applying principles of science.	9	4.33	0.71
Your ability to identify, formulate, and solve complex engineering problems by applying principles of mathematics.	9	4.44	0.73
Your ability to apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare.	9	4.11	1.36
Your ability to apply engineering design to produce solutions that meet specified needs with consideration of global, cultural, and social factors (i.e., sustainability principles).	9	4.00	1.41
Your ability to apply engineering design to produce solutions that meet specified needs with consideration of environmental and economic factors (i.e., sustainability principles).	9	4.00	1.41
Your ability to effectively communicate verbally with a wide range of audiences.	9	3.56	1.59
Your ability to effectively communicate in writing to a wide range of audiences.	9	3.56	1.59
Your ability to recognize ethical and professional responsibilities in engineering situations.	9	4.00	1.41
Your ability to make informed judgments that consider the impact of engineering solutions in global and societal contexts (i.e., sustainability principles).	9	3.89	1.36
Your ability to make informed judgments that consider the impact of engineering solutions in economic and environmental contexts (i.e., sustainability principles).	9	4.00	1.32
Your ability to function effectively on a team whose members together provide an inclusive environment, collaboration, and leadership.	9	3.89	1.45

Question	Results		
	Response Count	Mean	Standard Deviation
Your ability to function effectively on a team whose members together establish goals, plan tasks, and meet objectives.	9	3.67	1.50
Your ability to develop appropriate experiments.	9	3.67	1.41
Your ability to conduct appropriate experiments.	9	3.67	1.50
Your ability to analyze and interpret data and use engineering judgment to draw conclusions.	9	4.33	0.87
Your ability to embrace new learning strategies to independently acquire and apply new knowledge to solve engineering problems.	9	4.33	0.87

Diversity and Inclusion

The instructor creates an inclusive learning environment for all students.



Statistics	Value
Invited Count	10
Response Count	9
Response Ratio	90.00%
Mean	4.56
Median	5.00
Mode	5
Standard Deviation	0.73