Fall 2022 - Matthew Barry MEMS 0071 - INTRO TO FLUID MECHANICS - 1020 - Lecture

Project Title: **2231 - Teaching Survey Fall 2022**

Courses Audience: **118**
Responses Received: **112**
Response Rate: **94.92%**

Report Comments

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 that can help with interpreting your teaching survey report.
- Schedule a meeting with a teaching consultant who can help you interpret your results and develop a course of action if necessary.
- In the future:
  - Discuss, teach, and model giving meaningful feedback with your students.
  - Request a midterm survey of your course and give students multiple opportunities to practice giving feedback.

Contact OMET

Creation Date: **Thursday, January 05, 2023**

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.	118	112	94.92%	4.18	4	4.00	0.80
The instructor was enthusiastic about teaching the course.	118	112	94.92%	4.21	4	4.00	0.80
The instructor presented the course in an organized manner.	118	112	94.92%	4.15	4	4.00	0.80
The instructor maintained an environment where students felt comfortable participating.	118	111	94.07%	3.91	4	4.00	0.88
The instructor maintained an environment where students felt comfortable seeking assistance.	118	112	94.92%	3.92	4	4.00	0.99
The instructor provided helpful feedback.	118	112	94.92%	3.83	4	4.00	0.97
Assignments contributed to my understanding of the subject.	118	112	94.92%	4.17	4	4.00	0.84
Overall of All Questions	826	783	94.79%	4.05	-	-	-

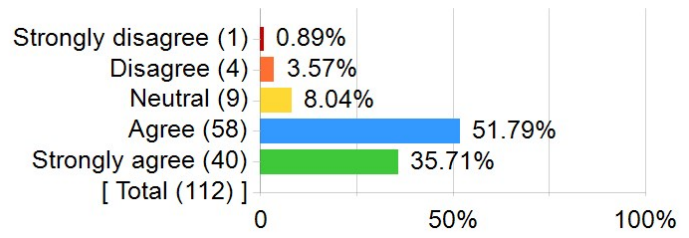
Overall effectiveness

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

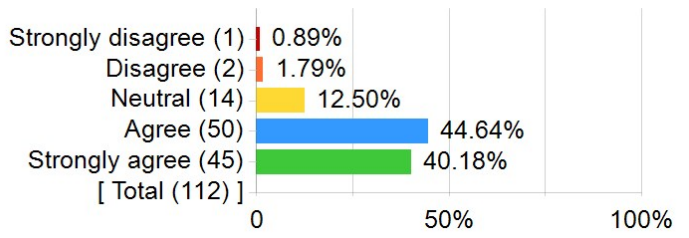
Question	Invited Count	Response Count	Response Rate	Mean	Mode	Median	SD
Express your judgment of the instructor's overall teaching effectiveness.	118	112	94.92%	3.67	4	4.00	0.89

Response breakdown

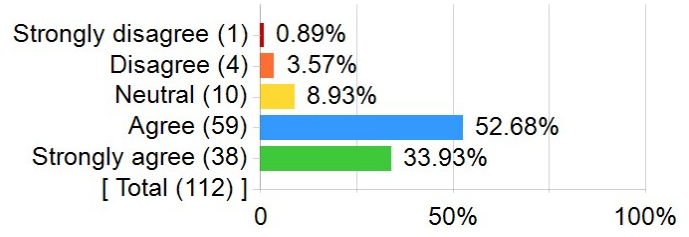
1. The instructor stimulated my thinking.



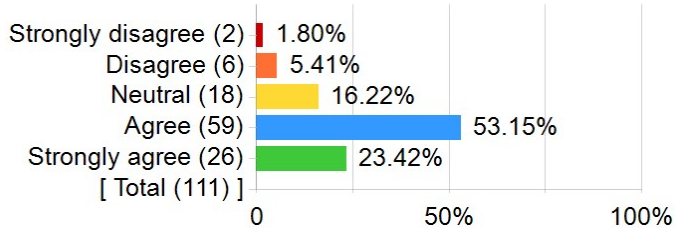
2. The instructor was enthusiastic about teaching the course.



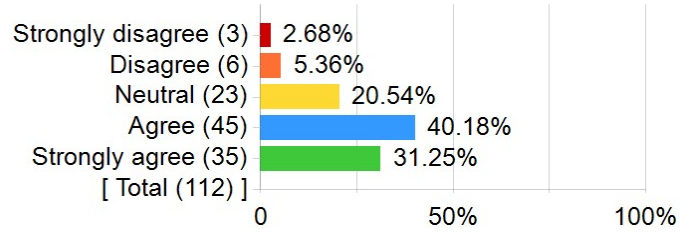
3. The instructor presented the course in an organized manner.



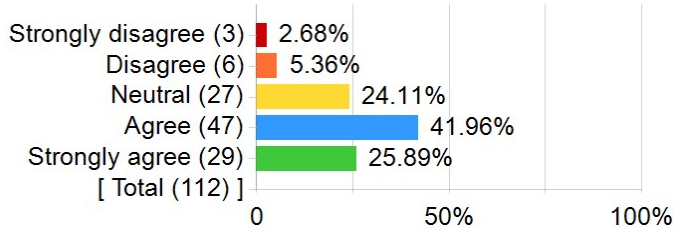
4. The instructor maintained an environment where students felt comfortable participating.



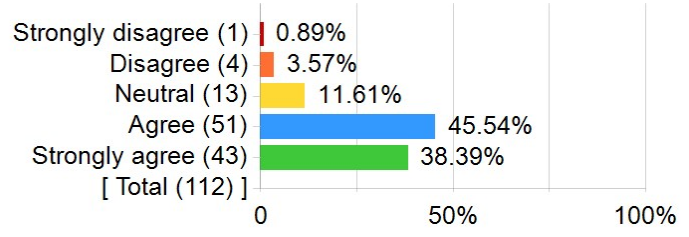
5. The instructor maintained an environment where students felt comfortable seeking assistance.



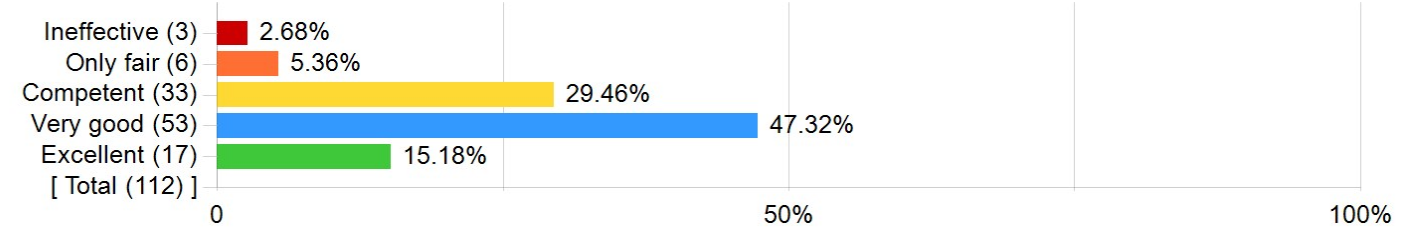
6. The instructor provided helpful feedback.



7. Assignments contributed to my understanding of the subject.



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



Comments

What did the instructor do to help you learn?

Comments
I liked the way he worked through examples in class, I was able to pick up on patterns and I was able to understand how different concepts introduced in the class were meaninful through those problems.
It was helpful starting from scratch for all the problems and seeing how the variables played out and how to provide them to the equations. He is very knowledgeable on the material and really expands it out for us to understand.
more examples earlier on. the lectures were better when written. 1. because there were more examples 2. because the pace was much more appropriate for "pencil/paper kids" 3. the ipad lectures contained only formulas were shadowed by endless derivations *not to say you cant use the ipad, but use it to write the notes in the same fashion as the board lectures. navier stokes and after was a success.
taught the class in a fairly consistent way with additional examples
He was very thorough on how and why were are able to use equations
Did a good job explaining fluids concepts, was helpful when answering questions in office hours but also kind of scary.
The homework assignments and example problems done in class were helpful for learning. The quizzes also motivated me to review the course content on a regular basis.
In class problems and worksheets helped a lot
Used tophat and used some real world example to tie everything together
Dr. Barry was very approachable for help in office hours and over email. He did in class examples that were helpful and went over concepts in depth.
The in class examples were great, and showed what we were expected to know very clearly. They made me much more confident want solving problems on my own because I knew the general procedures to solving the problems.
Principles of fluid mechanics
weekly homework that helped us with the material we were learning, and quizzes that connected to the homework
Did a good job teaching the understanding behind the concepts and providing practice questions.
Fluid Mechanics
Reviewed examples in class, and provided annotated lectures to review after class.
In–class examples and slideshows with annotations viewable in TopHat made learning easier. I wish this continued for the entire semester.
Working through examples in class and asking questions on tophat
In class examples helped a lot and having the notes on top hat to refer back to was great.
The methodology for solving fluid mechanics problems
Going through N.S. examples was very helpful. Having lots of office hours was very helpful too.
When he started writing his thoughts on the board and not just reading off a powerpoint, is when I started to actually learn
had good hw assignments and quizzes and taught effectively in class
The instructor asks students questions throughout his lectures, which stimulates more thoughts and learning. I also enjoyed his use of the software Pitt provides to have us better understand the material.
Lectures were very clear and organized. Also, eliminating the exam portion from the class was very helpful for learning. More time could be spent truly understanding the material when studying for the sort quizzes weekly rather than cramming in for midterm exams.
He would insult us and call us idiots when anyone asked a simple question. It made me feel as if I should better myself so I didn't cry myself to sleep at night.
Tophat but he stopped using it
How to effectively relate previously learned concepts to help learn new ones.
Dr. Barry, from strictly a lecturing/teaching perspective, is one of the best professors. His lectures are engaging and follow a simple progression through the topic. I definitely feel like I have a good grasp on Fluid Mechanics largely in part to his teaching.
Explaining his thought process through example problems in class
The behavior of different fluids in multiple applications.

Comments
He helped me learn the fundamental concepts of fluid mechancis
Fluids
fluids principles, including RTT, Naiver–Stokes, Bernoulli's principle, streamlines, and ANSYS CFX
Made complex topics a bit easier to learn
Dr. B taught the class in a very organized manner. I liked that he posted the slides and we could view them live during class through Tophat. This allowed me to go back and catch stuff I might have missed the first time.
Office Hours are usually helpful
Dr. Barry always came to lecture prepared with an organized lesson for the day. His teaching style was consistent and this made it easy to follow and learn from.
deriving equations on course
In class examples and hw assignments greatly helped, especially when going back and looking at the answer key.
His lecture slides were very organized.
Professor Barry organized his class in a way that made it very easy to revisit material that was covered in past lectures. He also used tophat during lectures which allowed me to further engage with the material being covered during lectures.
The assignments helped reinforce what we learned in class
He explained everything thoroughly and was really passionate about fluids. If he's that excited about fluids then it must be interesting.
He assigned us challenging problems that helped us work through the material so we would really know it.
He prepared the course very carefully. Homework and class are very careful.
TopHat and in–class participation
He went through the new material in lecture at a very good pace. Never felt that he was rushing or going too slow which helped me to better understand the material.
Homework’s were difficult but helped me really think through the problem solving process making me understand the material better. He also gave lots of real life examples
He helpd me learn basic fluids fundamentals
Homeworks were good and for the most part straight forward. No big curve balls that we did not know how to do at all.
Using the dry–erase board help me take better notes and understand the material at a better pace
He gave very challenging assignments (homework and quizzes), which took a lot of effort and studying to complete.
The best thing Dr. Barry did to help me learn was switching from slides on the projector to writing on the white board. It was much easier to follow and understand
Instead of simply reading from a book–defined powerpoint, we consistently went through helpful examples that resembled the foundation for homeworks and quizzes well.
The in class worksheets helped me understand topics and the top hat questions help me stay focused during lecture.
Writing on the whiteboard for the last 4 week of semester instead of the hard to read writing on slides
The instructor provided examples within lectures and gave homework that covered important topics/concepts to help us practice the material.
Top hat helped
Went over a lot of examples during class and related material to information from previous lectures.
In class examples
office hours
Professor Barry did great. Situations arose, and he resolved them, and I appreciate that. His assignments and lectures effectively taught the material and he clearly enjoys fluids which is refreshing. I appreciate Professor Barry's efforts to bring MatLab and ANSYS CFX into the class; it is a practical way to approach the problems and makes it all the more important that the understanding is actually there for the material. Effort and engagement with the material were heavily rewarded and that really is a great thing from a class.
Professor Barry used a multitude of different softwares to teach fluids in a multitude of different ways. His assignments were most of the time challenging but it helped to more easily learn to approach a problem conceptually opposed to memorizing equations.
I've had Dr. Barry as a professor for different courses before, but this was my favorite course he taught. The slides were always organized and generally easy to follow. I think the homeworks were a bit difficult but if you referenced the notes they were generally doable (maybe with the help of a peer or two). I appreciate the fact that quiz questions were always exactly what we were told to study and think that they were a great way to assess my standing in the class.

Comments
Used worksheets
I really liked t the end of the semester writing on the white board and having to write everything out. Knowing there wont be slides on top hat made me more attentive and writing everything out opposed to following a slide helped me atain more information and better understand the material
engaging lectures, extremely kind to me :)
Anytime I had a question I was able to go to office hours and get a useful help.
examples in class
Does a ton of in class examples and gives weekly quizzes.
Had an extensive knowledge base in fluids.
He gave examples in class explaining how to do certain problems that later showed up on the homework to further express our understanding.
office hours and clear content in lectures
I understood the topics better when Dr. Barry would work through an example problem in class, especially when he started writing them out on the board.
Was available outside of class
N/A
The on board lecture were much more engaging to me than the top–hat lectures. The fully explained and worked out examples were essential to my understanding of fluid mechanics.
Professor Barry was a very good teacher, the concepts were hard but his teaching was great.
fluid dynamics
He is a very good lecturer. Takes the time for students to understand the topics at hand. Office hours are very useful.
In class lectures were extremely helpful and professor Barry was very good at answering questions related to the topics
He showed us different angles to attack problems, was very responsive when we asked questions, and gave us real–life applications of the content.
The class pushes you to understand the subject matter, I came away feeling that I learned about the topic.
He stayed after class for a few minutes to answer my basic questions.
I think I learned best by going to Dr. Barry during office hours and asking questions about homework or material. Answering my questions there really helped.
Good explanations, great example problems throughout the class
The assignments were very difficult but it helped me understand the material better.
The lectures were very efficient and to the point. Example problems in class as well helped on the homework and homework problems helped for the quizzes. All material taught was relevant and the use of ANSYS CFX helped deepen my understanding of the subject.
made it inclusive
He gave us assignments and quizes that were based on examples done in class, and I feel that helped me better understand the topic we were doing.
Went through some in class examples that helped me better understand the material.
Lots of in–class examples.
Dr. Barry was very helpful at not only teaching students how to work with material in the class, but to actually understand the material. He derives pretty much every equation we use in hopes that it helps the students understand how and why to use the equations better, and I think that those hopes come true.

What could the instructor do to improve?

Comments
I would have liked to spend less times in some of the derivations we did in class and more time on examples of those concepts. Although going through the derivation was useful to understand why the assumptions we made were important, I feel like going through all the math wasn't necessary.
One of his strengths is also one of his weaknesses. Yes, he has a very good understanding of the material but since this is our first time with the course, we don't have a good understanding of the material. I think if he would use some analogies or relate it to previous content then it would go a long way to understanding the new material and how it is applied.

Comments
Streamlining tophat v whiteboard, also lecture participation questions seem to no longer exist towards the end of the year?
Focus more on application of equations and not the proofs of it
Make slides for the content covered after thanksgiving break, as that would be helpful in case I need to refer to them after class.
Practice Problems stopped about halfway through, would have liked to see them continued
N/A
Dr. Barry could do more example problems that are more complex to better reflect the homework's and quizzes.
The top hat notes were okay, but I think having the notes on an easier to use platform, like a pdf on Canvas, would be a lot easier to reference. Also, we just stopped using top hat in the middle of the class?
Avoid Tophat use. Class felt more productive with more interactive teaching, rather than just running thru slides.
sometimes there are things we haven't learned / in the lecture notes that are on the homework/quizzes which is difficult to solve then
There seemed to be a lot of derivations that may be important but we never really used.
–
More in class worksheets
More step by step problems on top hat would help.
He could focus less on the derivations and more on presenting multiple examples.
Formula sheets seem necessary for this class. Also, maybe just slow the class down a little and spend more time learning how to use the equations. So much time in class is spent deriving them but then on homework or quizzes, the questions seem impossible. Also, ANSYS CFx is an incredibly finicky tool.
I didn't understand the first half of the course content. I started to confidently follow along during Navier Stokes. Whatever you taught us in the first half, either delete that entirely or teach it differently because I still dint understand any of it.
continue with the tophat questions and worksheets. i feel like they stopped a few weeks ago.
Personally, I feel that the instructor can sometimes spend a long time deriving equations. I enjoy this because it shows students exactly what the equation means and why specific terms are in the equations; however, due to spending much time deriving equations, the class has limited time for example problems. In other courses, the situation is flipped. Other instructors allow longer for example problems, but little to no information on the derivation or formation of equations and models.
I would have preferred the last few weeks of lecture to still be on Tophat. Tophat helps only because I can consult it for future reference. Also, I would have liked it if the project was assigned right before thanksgiving break, instead of after.
Changing his attitude towards teaching as well as his students
pay attention to his tone and word choice when responding to students, can come off as condescending which makes students feel like they can't go to him for help
The homework can, sometimes, be overwhelming and the difficulty level exceeds the way in which the material was presented.
While I could praise his teaching style and abilities for days, its many of Dr. Barry's other qualities that have tarnished my experience in every single one of his classes, which has been many. On multiple occasions he has been a rude, demeaning, and neglectful communicator outside of the lecture hall. Not once has he taken responsibility for discrepancies in assignments nor provided an explanation to plead his case. Rather, he comes back with full force to shut down the student's question without even attempting to answer it. Beyond this, there were so many skipped classes that we did not cover many of the topics listed on the syllabus and under the course description. I understand that some of these may have been unavoidable, but no measures were taken to catch the course up to where we should be.
Some of the homework solutions did not have full explanations of why an equation or concept was used so possibly adding more explanations to homework solutions
Sometimes we have to take a lot of physical and mathematical identities at face value. I think an improvement could be to provide students with a resource to research why we can take those identities as trivial if there interested.
none
Better guidance on how to do simulation, and possibly how to create on from scratch
Give some announcements at the beginning of class. There were a lot of times when we didn't know whether there was going to be a quiz or even if the homework was posted. Also, I know Tophat was having problems but I really liked having things done on there
More clear rubric prior to submission of assignments
Near the end of the semester, lectures felt as though they didn’t apply to what we would need to know for the exam. I’d rather have class time to review the project more instead of listen to less applicable lectures.

Comments
I wish we learned more about airfoils and fluid flow visualizations. ANSYS was helpful for numerical comparisons to analytical solutions, but we didn’t touch upon visualizing streamlines of the fluid flow over a surface.
less derivation and more examples
Talk more about the final project at an earlier date.
I think that more specific problem examples would've been helpful, as I felt that the examples did not always prepare me for the homework.
Professor Barry could give more feedback on assignments.
The instructor could make quizes a few smaller questions, rather than one large one
Be less blatantly rude to students and avoid calling us all stupid by poorly disguising it as a joke.
Maybe give more help in coding in Matlab. I know we all took a intro in Matlab course, but for me that was a year and a half ago. Maybe just a little review of what commands do what.
He could work through examples that are more similar to homework problems.
I feel that the professor does not have a good grasp of the progress of the lecture. The pace of delivery is erratic.
More in–class worksheets of problems
Create a more open environment during office hours so that students are comfortable with seeking help and asking questions.
give out more information when we are going to have homework’s and quizzes
Asynchronous learning like posting past lectures would have helped me!
Less derivation at times and more real life examples where you would actually use this in a job setting for example.
Updating the instructions on how to use ANSYS or going over it in class.
He could do more examples in class or post example problems with solutions on Canvas to help us while doing homework and studying for quizzes.
I think Dr. Barry could do more in class examples. He did a good amount of showing us why we used the equations we did, but when we did in class examples, they were usually very basic, then the homework was more complex.
I am not sure you could do anything better. You challenge us, but that it was engineering is all about
More example that are better and easier to understand. Only put in things that are completely necessary to say for solutions and leave everything else that could be a red herring.
I think going over the quizzes in class would help to make sure everyone knows where mistakes could've been made and how the problem should've been approached while emphasizing on important concepts and topics to review.
Nothing he is perfect
Provide additional resources to learn from
A midterm would be useful to know the format of exams
method of the teaching, explain theorem in a simple way
On the topic of enjoying fluids yeah we have fun with it but sometimes Professor Barry is very doom and gloom and that brings my vibe down. Apologies for the unprofessionalism but Professor you are actually a very cool and interesting person and sometimes you seem to try very hard to make people not like you which is strange. Like, focusing on the work and the class, this is a very rewarding class to try hard in and apply yourself to and office hours are incredibly helpful but sometimes I do not have the energy to go out of my way to seek you out.
Overall I would say fluids was a very organized and well taught class. My only note would be too create a guide to graphing on Matlab as a refresher due to its continued use throughout the course
I don't think ANSYS is the best software, or maybe Dr. Barry needs to explain how to use it a bit better in class.
Explain how to use ANSYS CFX more
possibly communictae a little better about quizzes or homework, I feel I was left wondering if we were having a quiz weekly but again it was on syllabus and their was a pattern to follow so its not necessarily needed but could've maybe helped a little bit with a heads up
the concept of "engineering is for problems that havent yet been solved" is taken to somewhat extremes. most of the time, the work is reasonable, but sometimes, the teaching that is done and the subsequent performance expected are on completely different playing fields.
Show examples how what we are learning is applied in the real world.
– At the beginning of the term, the take home quizzes were unnecessarily difficult and only confused my understanding of the topic. It would have been better to do in–class quizzes from the start. – Post more announcements. I felt like I never knew if there was a quiz at the end of the week or what it was even on. Posting weekly

Comments
announcements on Canvas would help relieve some stress and anxiety.
More simple examples to create concrete base of understanding
The instructor could have provided examples that were more similar to the homework. Often times the homework problems were not similar in nature to what we had studied in class. The instructor could have also spent less time in class deriving the equations and instead spend that time doing example problems.
Take fewer classes to do in class worksheets and more for lectures.
Implement actual problems instead of just proving why things happen the way they do.
Adding finished notes to canvas when tophat is down
Starting with the on board lectures requires students to be engaged from the beginning of the semester.
Nothing
Maybe provide a practice exam and more practice problems
Some vagueness in homework problems / assignments, but nothing that couldn't be cleared up by asking. Not a big issue.
Sometimes there was confusion on when homework would be posted and when quizzes would be given
The instructor could improve communication on homework and quizzes.
A lot of the help is guarded behind a weird wall of standoffishness. To take a Dr. Barry class is to feel like you're drowning with no obvious recourse until you talk to some other students and realize you're expected to attend office hours during the week as a required part of the class. It's not that students shouldn't be expected to use office hours, but there's a weird culture of the haves and have–nots of a Dr. Barry class.
Spend more time on examples and applications rather than deep derivations of mathematical concepts.
50 minutes isn’t much, but on topics like RTT I think doing even 1 challenging example problem in class would be of benefit to me.
Not the instrucutors fault, but it can be difficult to read the board at time when not using Tophat. Maybe use high contrast markers in the future. Not sure what can be done about this, not every student can sit in the front of the class.
n/a
Slightly better communication could be helpful. By this I mean informing us ahead of time if class is cancelled, telling us when we do or do not have quizzes, and giving us information about the final exam sooner than a few days before. I also really liked when he taught us on the whiteboard and with examples. I would recommend ditching the top hat and starting out with this lecture format.
maybe be more available to students who aren't taking classes in the regular curriculum schedule
Better teaching attitude.
Dr. Barry could benefit from doing more review of topics. I don't think that it is a thing that is a necessity, but having review material that goes over the main topics would be beneficial.

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

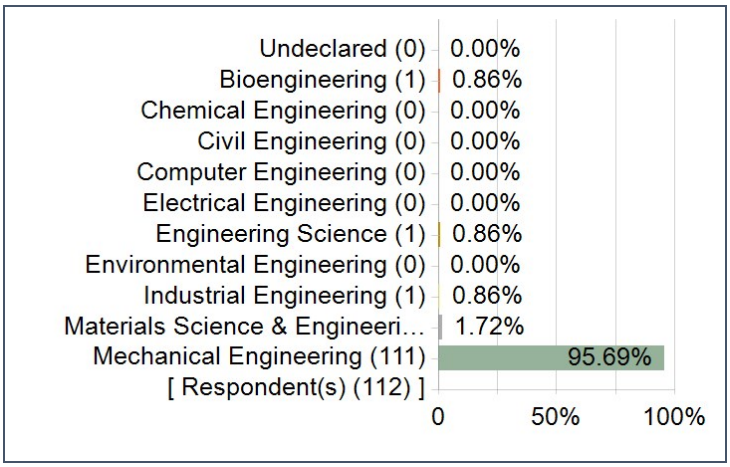
Comments
I appreciated the HW–quiz format and the lack of midterms.
I would prefer if the number of different websites would be limited. This can also be blamed on myself for poor organization but having to navigate through Canvas, Gradescope, and TopHat for whichever homework is due gets confusing and lead to me getting a couple 0's on assignments because I didn't check canvas for the quiz because I assumed it would be on Gradescope like before or a homework assignment that I thought would be on Tophat but ended up being on Gradescope. It is just difficult to keep track of and wasn't very helpful for me.
Making a series of videos like you did freely available like with thermodynamics would be God–Tier. I attended every thermo lecture, but those videos are when I really learned the content and got the additional help needed.
N/a
No
i enjoyed your class more when it wasn't flipped
His dog is very cute!
You are probably the only MEMS professor whose lectures actually teach me.
Generally, the class is just pretty hard, as Fluids tends to be, and it's hard to know all of the knowledge at a super high level, which is okay, I think most students just need to realize that. However, his class at times was frustrating and definitely fueled some bad habits of mine lol
none

Comments
For as much as students speak badly about Dr. Barry, I believe he is a very knowledgable, relatable, and reasonable professor.
Class was taught well. Learned a lot.
Making fun of students doesn't endear people to your teaching style and just makes the class a hostile environment.
By far the best lecturer at the university! Lectures on the whiteboard keep me focused and interested in the material for the entire hour. Seeing your interest in the material reciprocates back to myself, and other students, getting us excited about the material.
Even though I did not do the best on some of the in class quizzes, I enjoyed those more than take home because it made me memorize the information more thoroughly and I feel more confident in that material for the final than I do the first few concepts that were on take–home ones.
N/A
The portion on RTT was much harder than navir stokes, and it would be very helpful to have a formula sheet as there are a good amount of long formulas to remember
Overall, a well taught class. I walked out of there everyday feeling like I actually learned something and I wasn't looking at my watch every 5 minutes hoping it was over
I wish we received the final project before Thanksgiving Break instead of after. The class work picks up significantly after break ends and I would’ve rather had this project not contribute to it.
Probably a midterm is needed to replace the quiz
Nope.
I really enjoyed the ANSYS CFX assignments.
No
I really liked being in his class. I was never bored during lecture because it was always interesting. Some homework's were really tough but that's the point of them.
nope
Thank you, you are a good teacher!
It was only one or two quizzes towards the beginning of the semester, but a couple of the questions were very difficult and none of the in–class problems we worked on helped. Other than that, the rest of the quizzes were very fair and helped me apply everything I learned in class.
no
No, thankyou
Course was fun but not more fun than circuits in my opinion.
I do not particularly like the no–midterm layout this semester. It puts a lot of pressure of very challenging one–problem quizzes, which makes it very frustrating when I don't get them. Also, studying for midterms definitely helps when it comes to studying for the final.
I learned much better from the white board than the projector. Everyones different but this approach helped me understand and lessen the distraction of trying to keep along with the slides
I appreciated your ability to relate in–class topics to real–life applications
I felt like I was able to follow along with the lecture better when you started writing on the board.
Please stop complaining and be nicer to students, if you do you’ll soon see that students would be more inclined to go to office hours and do better in class since they would respect you more. And also because we’re paying the school an arm and a leg to go here. Which also means we’re paying for your salary. Just have a little bit of humility, it’ll do you some good
No
CFX could have been taught more in class if it is to be such a large factor in the course grade, especially since other sections don't cover it
Great Job!
n/a
i attended Liam Diefes office hours almost eveyrweek in the second half of the semester and he was very helpful and I improved my ability to solve fluid problems a lot during those times
n/a – thank you for a great semester though
No
I'm worried for the final
N/A
The homework solutions that were written as matlab codes even if matlab was not needed for that assignment were difficult to

Comments
understand.
N/A
N/A
Although a difficult course you explained the material in a way that was very easy to digest.
No additional information
N/A
While tophat was very helpful for introduction information, I felt I learned the best on complex topics when professor Barry was lecturing on the whiteboard
I took the circuits course last year with asynchronous lectures and I found it really helpful, although I'm sure it's a bit more work and not for everyone.
No.
Great job! The class was straightforward and to the point. You provided great real world examples and insights.
n/a
I really enjoyed the class and felt as though I learned a lot. Dr. Barry is a very good professor who cares a lot about his students. Fluids is obviously going to be a hard class but I found the lectures to be very helpful and I appreciate how willing Dr. Barry is to help students during office hours. I also really like how he really tries to learn everyone's name.
No
N/A

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).



The instructor was accessible.

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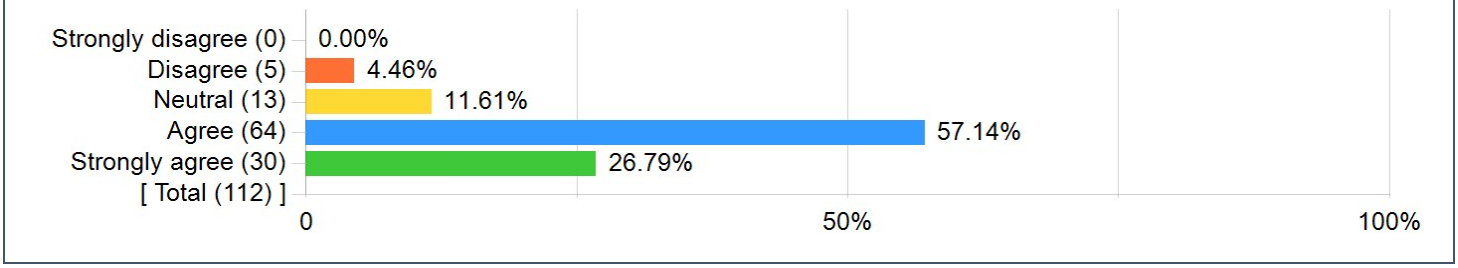


Please provide advice to future students: What could you have done to improve your learning in this course?

Comments
Go to office hours!! All the TAs are very helpful and will save you a lot of stress when completing homeworks.
Go through all of different websites he uses and try to get all the assignment due dates in one spot so it is easier to keep track of when work is due. He is very fair with grading so as long as you pay attention during class and do your best to understand the homework then you'll be fine. My Achilles Heal was not being able to stay on top of assignments so that is what I would have done to improve my learning.
Do every HW and make sure you're there for every quiz. Falling behind ruins you.
Do the hw early so you can ask questions in office hours
Do more practice problems and go to office hours more frequently.
Go to office hours more for help with homework problems.
Give the homework more time than you think
Study often so the final isn't too difficult
Do the work on time and attend all lectures. I didn't and am suffering for it.
I could better understand matlab and read the textbook more to understand the material better.
Do the homework early in the week! Take advantage of the TAs and Barry. They are fantastic resources and greatly helped me understand the content beyond the basic ideas we did in lectures.
Spent more time focused on learning the concepts, then applying the math.
make an equation sheet throughout the semester to help understand the equations better & memorize them

Comments
Pay attention in class! Especially the example problems!!!
Start assignments early, take detailed notes, and review homework and quiz solutions.
Pay attention and reference the textbook often. All the materials you need are available to do well in this class.
Read the book
Make sure to do all the work and keep good notes
Just come to terms with this class being hard and get help when you need it. Find friends to study with
pay extra attention to the powerpoint presentations. and don't be afraid to get help if you are iffy about a subject
To improve your learning, I would be sure to ask questions and understand why certain variables are in fluid equations. This will make remembering equations and what they are actually solving for way easier.
Pay attention in class. Keep up with all of the homework and use it as an opportunity to learn and also maintain a good grade in the class. Ensure that you understand the homework well when completing it so that you will be ready for the quiz on the same material when it arrives. Attend office hours if any help is needed on anything.
I could have found the original textbook he was supposed to use because the one he forced us to use was disorganized and very bad
paid more attention to quizzes
Give your full attention in class and you will not need to spend countless hours out of class trying to understand material.
Spend a lot of time on the homeworks. They really help grasp the material.
It might be beneficial to print out his slides before class so you can focus on what he is explaining rather than copying down notes/diagrams. Also go to office hours if you are not understanding something, it is better to figure it out early than wait and have the confusion build up
I would have reviewed my notes more. We learn a lot in class and it takes extra time reviewing to ensure that on assessments I’m not just regurgitating information.
Assignments are difficult but very useful. Do not wait till the last min to start it because it will take quite some time
Start the assignments early so there is time to get help, or a buffer it you cant do it as quickly as thought
Don't get too caught up with the large equations, focus on what is actually happening
Take time while doing the homework. Problems often take much longer than expected. Use the examples provided in class to gain an understanding of the work flow for solving each type of problem and apply that to the homework.
Go to office hours
Start assignments early Find a group of peers to double check work with
review and spend a lot of time
Really spend time looking over the homeworks and quizzes.
Use office hours when you feel the need. I found them very helpful.
I could have been more organized, and I could have set a schedule for things I needed to do in the class to avoid procrastination.
take notes in class
Go to office hours more. Dr. Barry and the TA's are all really helpful, so I should have been there more.
Go to class everyday and take the time to work through the homework.
Go to office hours more!
Read the textbook
I would say to go over the homework. The quizzes given are basically a review of the homework assignments and if you can answer all of the questions on your own quizzes will be nothing to worry about. Also, make sure to go to lecture. I know this is probably a given, but the in–class problems really do help if your stuck on any homework questions or you want to study for the quiz.
go to class and office hours!! also read textbook or at least go through it while doing homework
STUDY HARD!
Read the book, I read the book every now and then and I feel like whatever was not fully understood in lectures was then understood better with the book and sometimes even vice–versa.
Do your homework early and often. It will make your life significantly easier
Try to review material from all throughout the course as much as possible, not just for the quizzes each week, as everything comes back.
Make sure you understand what you're actually doing. I think not having a midterm kind of hurt me and my knowledge of the course.

Comments
Stay on top of assignments and look at info before class
Go to office hours, he is not scary nor are the TAs
Outlined my notes better
N/a
I think redoing the homework from scratch while referring to the correct solutions before the quizzes would've helped me to better prepare for them while also making sure I did the problems correctly.
Pay attention and take notes more
Review the slides in prior to lecture
learn beside class
Study for the final! I didn't even take it yet I just feel like thats the best advice I got. Final about to be a final thats for sure.
I learned the material very well, my only real advice would be to organize your past assignments carefully so they're available to you easily when studying for finals.
Go to class, listen, and take notes and you will succeed in this class.
Studying the homework and understanding the homework solutions that he posts was very helpful on quizzes and for the final. The class periods are kind of rushed but its because we have so much information to fit in so going to office hours is extremely helpful and very recommended
lean into office hours.
Go to class, do the homeworks, study, and go to office hours.
Go to office hours and don't give Dr. Barry a reason to be mad at you
Do practice problems
Start every assignment as early as possible because you will need to go to office hours to understand the problem. Don't just do the homework, but actually understand what and why you are doing.
Go to office hours with questions
make sure you read the text and do additional practice since the lectures don't prepare well for the homeworks.
Read the book instead of relying on class to be the only learning resource
Go to more office hours to get help
focus on the processes that solve problems, while the math is important, you need to understand the steps that get you to the math
Study more
Take better notes and distinguish the derivations from useful equations
As long as you show up in lecture, and try to understand the homeworks, you will be fine. Don't leave things last minute.
Go to Professor Barry and the TAs for help as the homework is very difficult but properly prepares you for quizzes and exams
I wish I had started homework assignments sooner in the week.
It's about the cones– I mean office hours.
I wouldn't dare skipping lecture.
Go to office hours every week, I think it’s where I complete my learning. I should’ve gone to more. Homework assignments will be pretty difficult at times but Dr. Barry is there to help. Even if you’re struggling with certain ideas or concepts in fluids, he’s there to help.
Better constrast on the white board when not using TopHat
Go. To. Office. Hours
One thing I could have done to improve my learning is going to office hours sooner. Dr. Barry is super willing to help and his office hours are in my opinion the most useful thing besides lectures. Start assignments early and ask questions in office hours and you will be successful.
read the textbook
Just stay on top of the assignments.
If you have questions about homework or the material in general go to office hours. They are helpful.
Out of class work is a must along with office hours if you need it. Office hours Dr Barry vs lecture Dr Barry are two different people.
I think that it is important to take notes of the important equations in the course and commit them to memory. Although not necessary, it would have helped with the ease of completing assignments

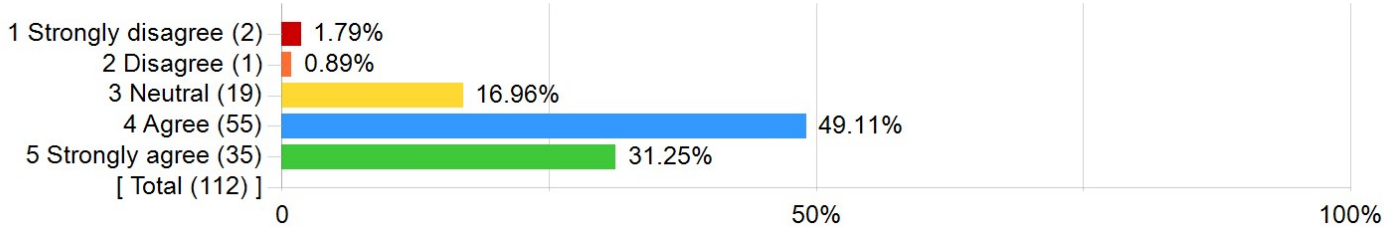
Engineering Undergrad Courses

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.	111	3.97	0.83
Your ability to identify, formulate, and solve complex engineering problems by applying principles of science.	110	3.85	0.92
Your ability to identify, formulate, and solve complex engineering problems by applying principles of mathematics.	111	3.98	0.86
Your ability to apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare.	111	2.86	1.13
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).	111	2.70	1.14
Your ability to apply engineering design to produce solutions that meet specified needs with consideration of environmental and economic factors (i.e., sustainability principles).	111	2.81	1.14
Your ability to effectively communicate verbally with a wide range of audiences.	111	2.81	1.16
Your ability to effectively communicate in writing to a wide range of audiences.	111	2.72	1.20
Your ability to recognize ethical and professional responsibilities in engineering situations.	111	2.80	1.17
Your ability to make informed judgments that consider the impact of engineering solutions in global and societal contexts (i.e., sustainability principles).	110	2.66	1.15
Your ability to make informed judgments that consider the impact of engineering solutions in economic and environmental contexts (i.e., sustainability principles).	111	2.69	1.14
Your ability to function effectively on a team whose members together provide an inclusive environment, collaboration, and leadership.	109	2.68	1.23
Your ability to function effectively on a team whose members together establish goals, plan tasks, and meet objectives.	111	2.61	1.27
Your ability to develop appropriate experiments.	111	2.78	1.19
Your ability to conduct appropriate experiments.	111	2.74	1.17
Your ability to analyze and interpret data and use engineering judgment to draw conclusions.	111	3.80	0.96
Your ability to embrace new learning strategies to independently acquire and apply new knowledge to solve engineering problems.	111	3.83	0.89

Diversity and Inclusion

The instructor creates an inclusive learning environment for all students.



Statistics	Value
Invited Count	118
Response Count	112
Response Ratio	94.92%
Mean	4.07
Median	4.00
Mode	4
Standard Deviation	0.82