

COURSE ASSESSMENT REPORTS - My Specific Faculty Comments**Course:** MATH 046 Intro to Applied

Math

Term: 202103 - Spring Term 2021**Instructor:** Jan Glaubitz**Question:** Comment on 1-3 things that the professor did well and should continue to do in the future:

1	He explains everything clearly in the lecture
2	Prof. Glaubitz is a great lecturer and very easy person to talk to which I really appreciate.
3	Professor Glaubitz excelled at pacing the class according to what he wanted to cover: I wouldn't say there was one part of the class which was either too fast or too slow which I feel is becoming even more an anomaly in the remote environment. I could also appreciate why office hours were appointment-only, and they were also scheduled for times that worked well given the Dartmouth schedule.
4	The lectures were very straightforward and organized.
5	The professor explained the central concepts concisely and well to give us time to do practice problems for the homework set.
6	The professor was great at explaining material and helping students who were struggling with certain concepts.
7	Took time to have us walk through solutions verbally

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Math

Term: 202103 - Spring Term 2021**Instructor:** Jan Glaubitz**Question:** Comment on 1-3 things that the professor should focus on to improve their classroom effectiveness:

1	I feel that some of the breakout rooms during lectures were either too short or too long (more often on the side of being too short to completely tackle the problem), and a couple more minutes in those cases would've been more beneficial for working through the problem before returning to the main session.
2	NA
3	Show more variety of problems and examples in script and lecture
4	The professor could work to connect the material to real-world applications so we know its use more.
5	The script notes contained a few errors and some calculation mistakes made during class distracted from the material covered in the lecture.
6	There are some typos in the script. Maybe revise that a little bit (?)

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Applied Math

Term: 202103 - Spring Term
2021**Instructor:** Jan Glaubitz**Question:** Add any specific recommendations on how the professor is assessing the course work and giving feedback to students that you believe would be useful:

1	Could use more assessments
2	Exam evaluation and assignment evaluations were fair and reasonable.
3	I feel like grading might be done too generously across the board, which as a student I appreciate but had I been the grader I would likely have taken parts of points off some assignments my group submitted in hindsight.
4	If possible, office hours could be moved to early afternoon or late morning times.
5	N/A
6	No answer. The professor was very quick with grading assignments and offered excellent feedback.

COURSE ASSESSMENT REPORTS - Non-Faculty Specific Comments

Course: MATH 046 Intro to Applied Math

Term: 202103 - Spring Term 2021

Instructor: Jan Glaubitz

Course Design and Effectiveness

Question
Section

Comment
on the
aspects
of the
course
that you
think
were
most
effective:

1	I really enjoyed the structure of the class with the mix of lectures and examples to work on as a class and in breakout rooms. I also really appreciated my group members when working on psets.
2	I thought that the lectures were extremely helpful
3	I thought the balance of lecture to non-lecture exercise was both refreshing from a lot of what I've experience in a lot of other remote courses and still very effective.
4	Professor was good in helping understand the homeworks
5	The group homework's and the presentations of the homework were very effective.
6	The homework groups and flipped classroom helped me learn together with other students interested in math.
7	The script and lectures

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Course Design and Effectiveness

Question
Section

Comment
on 1-3
aspects of
the course
that could
be
improved
or
enhanced:

1	I felt like a lot of the material required prior knowledge so some background materials and references that I could study would have been extremely helpful.
2	I would've liked to see more material covered, although I suppose an intro-level class is not necessarily the best place to have too much material and I think given that constraint the course may be acceptable as is.
3	More assessments like quizzes to get more practice under our belts
4	N/A
5	NA
6	Sometimes I didn't fully understand parts of the script which could use a bit more explanation in class.
7	The section on functional anlysis could have been expanded since the material was much tougher than other sections.

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Course Design and Effectiveness

Question
Section

How did
you
contribute
to your own
learning
experience?

1	I came prepared to every class and assisted my group with all homework assignments.
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2	I contributed to my learning experiences by attending lectures, reading the script, doing homework, and attending office hours if I was having trouble.
3	I did a lot of studying to understand everything needed before reading the script notes before class.
4	I tried to fully grasp every topic we went through on my own before class then reviewed to reaffirm that understanding.
5	Rewatching lectures, doing assignments in full
6	The course places a heavy emphasis on group work, and it was great to be able to work with my group whenever I felt like it. I was often a proactive piece in getting the group together to discuss work/review.
7	doing team homework

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Course Design and Effectiveness

Question Section

What remote learning experiences worked particularly well for you in this course? In your response,

Question: please consider the various aspects of the course including lectures, labs, discussions, drills, and creative works.

1	Having script before class and then having class to reinforce what I read was very helpful.
2	I enjoyed the Tuesday/Thursday pairing of lecture and discussion.
3	Lecture recordings
4	N/A
5	Sending out the script beforehand and providing the lecture notes (on iPad) soon after the lecture were helpful in learning.
6	The lectures themselves were sufficient but not overwhelming, and having the extra time to enforce my understanding of material from the previous week through presenting the homework was undoubtedly effective.
7	The reverse leaning was well-implemented with this material compared to other courses that tried to implement it.

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Question Section Course Design and Effectiveness

Question: What remote learning experiences did not work well for you in this course? In your response, please

consider the various aspects of the course including lectures, labs, discussions, drills, and creative works.

1	Again, some of the material was initially hard to understand due to lack of prior knowledge.
2	I did not meet anyone from outside of my homework group, which I was hoping to do.
3	N/A
4	NA
5	The lecture frequency felt too low for me. Having one lecture a week for eight of the ten weeks doesn't add up to a lot of material, and it really enforced that the class wasn't trying to cover too much. Additionally, office hours were available on request during specific times, which was unique but could maybe have been better implemented.
6	team live meeting due to time conflict

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Course Specific Questions

Question Section

Question: Comment on the aspects of the Flipped Classroom style of the course that you think were most effective

1	Helped us be more able to tackle examples in lecture and thereby help our understanding for the homework
2	I could follow the lecture more easily than the case where I know nothing about the materials
3	I enjoyed that we went over the main concepts during the actual lecture from the script because in other courses the professor would only do problems during the lecture which left many questions if we were struggling with material.
4	I thought the flipped classroom was especially effective for this course because I had some kind of background, although limited at times, with a lot of the course material, and consequently those weekends where I had the most background I got the most benefit out of the flipped classroom approach because I already had some baseline understanding of what I was learning. As such, I think the flipped classroom works best in a class like this, and there would have been little I would have changed about the teaching style itself, if any.
5	Lectures were great summaries of the material.
6	The flipped classroom style helped us spend more time working on practice problems and less time repeating over material that we could learn on our own.
7	The lecture reinforcing the script and the breakout rooms were helpful.

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Question Section Course Specific Questions

Section

Question: Comment on 1-3 aspects of the Flipped Classroom

style of the course that could be improved or enhanced

1	I personally would've enjoyed having the updated script a bit earlier than it was made available this term (for instance, on Saturday or Sunday instead of Monday morning) to allow for more time to read it, but other than that I very much enjoyed the flipped classroom style.
2	I think there could be more time in lecture spent on the Functional Analysis material.
3	I thought that sometimes the script went in way more detail than the lectures so covering some of the details in the lecture would've been nice as well.
4	It was hard for me to understand the script reading it alone, but the lectures clarified the most important concepts.
5	More example problems in the script and lectures
6	N/A
7	There were some parts, like functional analysis, that were more difficult to learn through the flipped classroom approach.

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Course Specific Questions

Comment on the aspects of the team-based assignments that you think were most effective

Question Section

Question: homework assignments that you think were most effective

1	Every week there were a few parts of the homework that stumped me and having a group to help me overcome those barriers was extremely helpful. I also had a very positive experience working with my group.
2	Gave us the option to be flexible with our workload and preparation while also collaborating
3	Having access to three classmates was incredibly helpful throughout the term. It was great to be able to turn toward people I knew when I needed help, and I did my part to be as good a teammate as I could.
4	Learning from my classmates
5	The group homework assignments were very effective.
6	The homework group helped me rely on others especially when I didn't know how to solve a specific problem. I could learn from them rather than not know how to do it at all.
7	Working with other people and hearing their approaches to solving problems was very insightful.

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Course Specific Questions

Comment on 1-3 aspects of the team-based homework assignments that could be improved or enhanced

Question Section

Question: homework assignments that could be improved or enhanced

1	I believe that setting the threshold for full credit on the homeworks at 50% of the total points was too generous, and
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made several of the later homeworks feel like freebies where we didn't even need to submit the assignment to still have our homework grade intact. It was good to see all the groups continue to submit all the works even as full homework credit was guaranteed for everyone, but had that 50% threshold been set higher I would've definitely approached later homeworks with a different mindset to really maximize my own benefit from them. Additionally, dividing the problems evenly among the people in the group would probably have been a better approach than dividing the points evenly among the problems (perhaps the homeworks in a future installment are out of 16 points if there are 4-person groups again rather than this year's 18) to make work division on the students' end a bit easier.

2 It was overall good, not much to improve.

3 N/A

4 Since most teams are in groups of 4 it may be more helpful to have the problems split up in 4 ways.

5 Sometimes it could cause low efficiency

6 The homework could have been split up into 4 questions to make it easier to split up the presentation of the problems.

COURSE ASSESSMENT REPORTS - Student Initiated Comments

Course: MATH 046 Intro to Applied Math
Term: 202103 - Spring Term 2021

Instructor: Jan Glaubitz

Question: Comment on the methods of evaluation chosen by the instructor, e.g. tests, papers and examinations and the workload expected of students:

1	Across the board, homework and exams are short but cover a solid breadth of material. Homework itself was much less significant in this course as students needed to get above 50% of the points on all homeworks to get full credit on the final homework score (something which was not an issue for anyone in the class) and was done in teams, but the homeworks themselves are great preparation for the exams which do not have the same lenient grading policy to them. Homework presentations to the instructor were something I hadn't seen before, but are ungraded and do not require much additional effort. The workload is moderate and consequently very manageable, and makes you feel adequately confident in the material rather than consistently overwhelmed by assignments to do.
2	Homeworks were fair based on course material as were the exams.
3	Less weightage of just two assessments without enough problem practice
4	Most were homework and examinations.
5	The course consisted of weekly homework (40%), a midterm (20%), and a final (40%). The workload was very manageable.
6	Workload is good. Weekly homeworks with one midterm and one final.
7	hw, 2 exams

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Question: Comment on the structure of the class, for example the mix between lecture and discussion:

1	At times, I would have liked more lecture to be able to familiarize myself with more material, but also the homework presentations served a unique role and were effective at doing that.
2	Class is all lectures.
3	Good balance
4	I really appreciated the rapid turnaround of feedback on assignments. As a result, I always had a great idea of what I was or was not understanding in the course.
5	It was mostly lecture and discussion.
6	The class had a flipped classroom approach with most of the learning happening during the script reading. The class had a brief lecture on the central concepts before we split up for discussion to solve practice problems.
7	lecture and breakout room discussions.

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Question: How did this course influence your academic experience at Dartmouth?

1	I've finished the requirements for my math major as of the end of this term, so I can't say that this course did anything to influence my academic path at Dartmouth, but it has opened up some potential areas of interest for education after Dartmouth.
2	It adds to my major courses and the class is interesting.
3	It influenced me to take more applied courses in the math department and to consider taking Math76.
4	It reaffirmed my wish to pursue applied mathematics.
5	It was a good final math class for my minor and I feel I can apply a lot of my knowledge to physical applications.
6	It was overall a positive experience.
7	N/A