

Course Evaluations for Eric A. Autry

Below are the available course evaluations for courses taught by Eric Autry as a primary instructor since graduate school.

The evaluations are arranged with the newest first.

These are **all** the evaluations available. Those that are missing were lost due to unavoidable technical issues at the University.

In the below evaluations, and surveys, no student comment has been omitted, none has been edited, and the order is as they appeared in the reports.

Math 260 Course Evaluation
(MATH 260 - Python Programming in Mathematics)

Spring 2021

| | Overall the course was: | Overall, instructor was: | The course has clearly defined student learning objectives. | Please characterize the difficulty of the subject matter: | How much did you learn from this course? |
|-----|-------------------------|--------------------------|---|---|--|
| | 4 | 5 | 5 | 3 | 5 |
| | 5 | 5 | 4 | 3 | 5 |
| | 5 | 5 | 4 | 4 | 4 |
| | 5 | 5 | 5 | 3 | 5 |
| | 5 | 5 | 5 | 4 | 5 |
| | 5 | 5 | 5 | 3 | 5 |
| | 5 | 5 | 5 | 4 | 5 |
| | 5 | 5 | 5 | 5 | 5 |
| | 4 | 5 | 5 | 3 | 5 |
| AVG | 4.8 | 5.0 | 4.8 | 3.6 | 4.9 |

What would you like to say about this course to a student who is considering taking it in the future?

It is good to have basic programming experience before taking this course. Literally just spend a week doing Python for fun on a website that teaches it and you'll be good. Knowing differential equations is very helpful in one part of the course.

One of the best math classes I have ever taken!

The class is great for learning how to program in python. It gradually builds up the skills and knowledge required for projects later in the class. Overall, it is a interesting and useful class.

This is the best programming course I've ever taken, especially for beginners! And I strongly recommend this course to students who are not very familiar with object-oriented programming like python. Moreover, this course includes many cross-disciplinary topics such as biology, finance, etc, as well as lots of typical mathematical models and equations. Also, the homework is not very hard but quite interesting and though-provoking. There is a lot room for you to explore more on the given topics~

This was one of the best math courses I have taken at Duke. It had very clear objectives. I would say it is one of the easier courses of the Math Department, but probably the one I gained the most out of. The workload was the right amount - enough to push me to learn a lot, but not too overwhelming. I would highly recommend this course to students who want to improve their programming skills.

Would you like to provide any other comments about this course?

I really enjoyed taking this course, since the topics it discussed are very useful, and the way Prof. Autry taught is quite clear and logical and easy to understand. And he talked a lot about how to program consciously and program in order, as well as how to debug. Those are very useful skills.

Overall, I loved this course - it helped me gain confidence in my programming skills. I loved how each lecture would start with a math problem and then we would discuss how we can solve this program in coding. The professor was excellent too - he was always very eager to help.

Professor Autry is one of the most passionate and accessible professors I have had. He always tries his best to help his students outside of class and provides them with suitable incentives to make them work harder. Taking this class has been such a joy for me. I particularly like how professor Autry incorporates the topics from a wide range of fields, such as physics, finance, data science, into his lectures. He also never skips a class, even when he's sick and tired!

Provide materials on the lectures before the lectures. Reviewing recordings, I find the lectures easy to follow. However, when first exposed to the material, it can be very difficult. I would get a LOT more out of the lectures if I had something to review first. Many times, I would not understand what is happening in lecture, only to understand it by looking at the slides later.

| # | Overall Appraisal of Course (Math 590, Fall 2020) | Adjective to Describe Course | Why Recommend For Award | Q1 - Quality of Course | Q2 - Quality Instruct -or | Q3 - How Much Learn | Q4 - Work load |
|------------------------------|---|---|--|---------------------------------|------------------------------------|------------------------------|----------------------|
| Averages (5pt scale): | | | | 4.94 | 4.97 | 4.89 | 3.13 |
| 1. | Sometimes it would have helped to have the slides/notes before class, but I understand that given the virtual situation and having to make videos and teach multiple sections it can be tough. The worksheets didn't seem as helpful as the actual homework, but that may have also been because of the virtual setting. Overall a fantastic course. | Worthwhile. It is pretty challenging and a bit confusing for me at times, but I really learned a lot and enjoyed the assignments. | Eric is one of the best professors I have had at Duke, both as an undergrad and graduate student. He really cares about having students learning the material, and the content was very interesting. He also put a lot of work in preparing videos for us and providing us with projects and homework that helped us learn. He structured the class very well given the virtual setting, with notes, videos, and office hours spread well throughout the week. The knowledge he has of the material along with his passion for helping students learn makes him highly deserving of the award. | 5 | 5 | 5 | 3 |
| 2. | | Easy to understand, consistent, informative | Eric always tried to explain difficult algorithms as easy as he could. He worked really hard on his lectures and off-class videos. I learned a lot knowledge from this course that is not I can imagined at the beginning of this semester. | 5 | 5 | 5 | 3 |
| 3. | | challenge but useful | Eric put lots of effort in this course. He prepared several related videos before class, and during class, all the class materials are designed properly. Also, the assignments are great, they help me to understand the course material better. | 5 | 5 | 5 | 4 |
| 4. | Less projects or homework | Excellent! | Professor spent a lot of time for lectures and recording videos, and their quality is high. | 5 | 5 | 5 | 4 |
| 5. | I think the programming projects can be more challenging. | Moderate | | 4 | 5 | 4 | 3 |
| 6. | Eric is the best instructor, I mean, for real | Enlightening and exploring | Nice teaching, hard working and support students | 5 | 5 | 5 | 3 |
| 7. | Do not like the extra credit video because it always took me a lot of time to record a 3-minute video. | Useful! Fun! | Eric is super nice and always willing to help. He is super knowledgeable! | 5 | 5 | 5 | 3 |
| 8. | I feel Eric did perfect job. Actually, in the evaluation for other courses I took this semester, I suggest they all should learn from this course about how to set the remote learning environment for students. | best ever. Because that's how I feel. | I can feel Eric puts tons of efforts to adept everyone into virtual learning environment. | 5 | 5 | 5 | 3 |

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|-----|--|---|---|---------------------------------|------------------------------------|------------------------------|----------------------|
| 9. | Eric is an AMAZING professor who really cares about how his students are doing. He provides slides, take home videos, has a ton of office hours to make sure that everyone who puts in the effort can learn what he wants them to know. Despite the class being virtual, Eric still gave it his all EVERY SINGLE WEEK without fail. He is not only extremely knowledgeable, but very approachable and always has a positive personality. This course content is hard but Eric makes it digestible. All homework and projects were fair game and forced the students to really think and learn. You can't get away with only understanding part of an algorithm, you have to know it all. The homework was extremely helpful in pushing me to learn all the material. | Everything he taught is very interesting, and the HWs/projects are very helpful for us to understand new concepts. Ambitious. I mean this in the best possible way. There is a lot of content, it's not easy, but it really opens up your mind to how you think about many kinds of problems and how they can be solved with algorithms. | All the pre-reading videos and the numerous OH can help students absorb concepts. I have never seen a professor care so much about his students! Eric put in a massive amount of effort to ensure students were getting the best learning experience they could despite the class being virtual. When people were having trouble, he increased his personal office hours from 4 to 6 hours a week. Eric made sure that all students were aware of additional resources and was extremely knowledgeable and approachable. He was so friendly that he made class a pleasure to come to. The course he has designed, along with the homework and projects he assigns ensures that students learn the material and apply it. Furthermore, Eric has awakened a curiosity for further knowledge in the field of algorithms for me. Coming away from this class, I would recommend everyone I know to take it or any other course Eric is teaching. | 5 | 5 | 5 | 4 |
| 10. | I have no trouble understanding most of the materials covered in the class and the office hours offered by Eric and other TAs are super helpful for questions. The projects and assignments designed in the class are well-structured. I have some figuring out those proof and codes at first and felt much more confident at the end of the semester. | Well-organized and Easy to understand. As a student without software background but has a need to understand basic data structure and algorithm to have a technical job in data science field, Eric's class guides me to understand and practice coding challenges I met during online assessment. | Eric is one of the most passionate and dedicated professor I ever seen. During the pandemic, he made his online class and office hours accessible and tried his best to create an excellent learning experience to every students in the class, regardless the time zone they're in. He definitely have a lot of domain knowledge in the field he teaches and does an excellent job delivering the them in a way that even student without algorithm background can understand. Therefore, I really want to appreciate him for the caring and hard work I received and believe him deserves this award. | 5 | 5 | 5 | 3 |
| 11. | I think Eric is a very responsible teacher and his lectures are full of useful contents. I think it will be better if he can offer us some text materials so we can learn more about the topics in class. | Systematic and useful. This lecture gives me a systematic understanding of algorithm, I used to know several algorithms taught in the class but the lecture helped me understand | Eric is a very responsible teacher. He taught more than 12 hours for the lecture each week. He also did lots of pre-recordings beyond the lecture to help us understand the | 5 | 5 | 5 | 3 |

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| | | their relationship better. Also, as I want to be a software engineer in the future, algorithms I learnt in this class are very useful. | material better and was available for E-mails all week long. When I had trouble learning the course, I visited his office hour and he patiently helped me solve my problem. | | | | |
| 12. | The course itself is great. This semester is kind of special because we did not have midterms and final. In terms of assessing how I learn, it may be less accurate only based on assignments and projects. The algorithms instructor introduced are fun to learn, and he also focused on stimulating students to think about how to approach a new problem, which I personally think is an important skill. The only downside is that this semester was too short, but there is nothing the instructor could do about it. So overall, great course! | Informative. There are a lot of topics covered within this semester. Each important topic has a corresponding assignment or project so that I could have better grasp of it. | Instructor's dedication to this course is unmatched by any other professors I have seen in my higher education span. The extra course pre-recordings are of quality and his office hours have been helpful to my learning. | 5 | 5 | 5 | 3 |
| 13. | None | None | | 5 | 5 | 5 | 3 |
| 14. | Provide more optional course reading material and exercises for students to learn extra knowledge outside of the class. | Amazing. The course material and videos were great. | Eric prepared the class very well!!!!!! | 5 | 5 | 5 | 3 |
| 15. | Very good. It will be better if for every topic we can see more examples. | Worth learning. Students can learn a lot about algorithm both theory and practice. | Eric is really patient and have passion in teaching student. He has a great ground in math and python programming. Students benefit a lot from his algorithm course both theory and practice. | 5 | 5 | 5 | 3 |
| 16. | Both the instructor and the course are excellent. It might be better if a session has 1.5 hours rather than 50 mins. | Clear and Inspiring. The professor made the content quite easy to understand, and the structure of the course made us think by ourselves a lot. | The quality of the course is excellent, even if it's in a remote environment. It's even much better than most of the in-person courses here in DKU. The professor has a very, very strong sense of responsibility for students. He has made great effort to make the course a much better experience for us. The professor also has plenty of office hours, which is really helpful. | 5 | 5 | 5 | 3 |
| 17. | None. It is already great. | Excellent. Very useful course. | Eric is very patient and nice. His teaching method is great, and the knowledge in class is really useful. Homework and projects are also adequate. | 5 | 5 | 5 | 3 |
| 18. | | Really helpful and worth to take. I learned a lot from it. | The professor is very enthusiastic. He recorded so many videos to explain the additional topics and students' questions. He replied questions on Piazza or in email very very quickly and carefully. He is really good at explaining things. Even if the algorithms are somewhat complicated or hard, he can make it much easier to understand by drawing pictures and using | 5 | 5 | 5 | 3 |

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|-----|---|--|---|---------------------------------|------------------------------------|------------------------------|----------------------|
| 19. | | awesome, the instructor is very nice | some other techniques. Eric is very nice and he is very earnest, the recordings and PPT are awesome. we all like to take his courses. | 5 | 5 | 5 | 3 |
| 20. | <p>I think the course is the best! No more suggestion! Anything I want to say is in the last block of "please tell us why you believe this faculty member is deserving of an award."</p> <p>I sincerely hope that who review this evaluation could consider this course to be the best learning experience course. I enjoy this class so much (which is never happened before)!</p> | well-organized and very useful | <p>Firstly, he almost upload recordings before each class to let us have a background towards the lecture, which is very useful. I know how hard it is to make recordings up to 2 hours before each class and how hard it is to have four 1-hour lectures a day. It is very impressive.</p> <p>In addition, he try his best to provide us with more than 6 hours office hour. And encourage us to learn from doing homework. If we met any problems, we can go to ask him and discuss with him. I learn a lot of things in this process. And he is very responsible and can always make fast reply on Piazza to answer our questions, which is also very good.</p> <p>Moreover, after each week, he will give us a survey to let us convey our feelings (such as if the material too hard and if the pace of course is too fast) and questions. I can feel that he do care about our learning experience and make adjustment based on our feedbacks.</p> <p>Honestly, compared to other two courses I took in this semester, I think he is the best instructor I have met. It is a pleasure to take his class and I really feel grateful for his effort and help.</p> | 5 | 5 | 5 | 3 |
| 21. | The course was so goooooood and I almost no word to say. I appreciate the effort you spent. About the course material, I think you have already received some similar thoughts that the content of first few weeks may not be very useful, and that's it. Thanks again! | Excellent!!! I think I said enough in the recommendation of the award. | You don't see the merits without comparing him with other instructors I had this semester. | 5 | 5 | 5 | 3 |

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| | | | <p>Eric usually records many videos that added up about 2-hours long per week. Eric spends 12 hours per week on the inPerson/liveOnline courses. Eric gives one project/homework per week. He spent so much valuable time on the design of the course content and homeworks, I certainly can see and feel his effort, and the quality of everything he distributed is always good.</p> <p>One of my other courses instructor spent 2 hours a week on recording 2 videos, then gives QA sections. My another course is basically reading books. I am not saying that my other courses are bad, I DID learned many things from them.</p> <p>However, an award means a high affirmation, if only few faculty members should receive it, then I certainly think both Eric's attitude and his course quality (if I can I will highlight the course quality) make him deserves an award.</p> | | | | |
| 22. | It would be better to improve the difficulty of the projects. | Informative | The courses are in good quality and he really dedicated to make those preclass recordings and detailed lecture notes. His office hours and TA hours are very helpful and he is very responsive in Piazza. Also there are weekly survey about the pace and content of the classes. He really cares about whether we can understand the content. | 5 | 5 | 5 | 3 |
| 23. | Basically, I do not have much to say, since I think the course contents are comprehensive and Eric personally is quite nice. Maybe just reduce somehow on what we have talked for the first month (although I understand this course has another name MATH 560), since I found FSM is somehow not mentioned so much in the course after (also seems not so help in solving real problems and introducing algorithms) -- maybe in the future you find a way to significantly combine these concepts. | Eric provided us with 10 homework, 5 hands-on projects and some other assignments for extra credits. The overall workload is moderate, while we have enough time reviewing the lecture recordings, taking notes and contemplating on the algorithms. The final grades of assignments are quite fair, which reflects what we have contributed, still not complimentary since he will point out strictly and correctly what we have | Eric is quite responsible and nice professor. His teaching technique is inspiring, clear and excellent. The course materials in his lectures are comprehensive, introduce us step-by-step. | 5 | 5 | 5 | 3 |

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| | | inappropriately done. The TAs were offering helpful suggestions on homework and projects. | | | | | |
| 24. | wonderful! | excellent | pre-course recordings are pretty helpful | 5 | 5 | 5 | 3 |
| 25. | Very good. I like all the materials and appreciate a lot for Prof. Eric's effort! | Interesting. Because the homework questions and projects are all related to real life. It is very interesting and meaningful to analyse these practical problem. | Prof. Eric is an excellent teacher. He is so responsible and considerable that offers classes for students in different time zone. ECE590-25 is the only one that I can take during the day, among all my courses. I appreciate it a lot. | 5 | 5 | 5 | 4 |
| 26. | Sometimes I feel survey is not necessary for me | Fun! Learning algorithms is just like brand-storming. It's really fun. | Prof. Autry is very dedicated to teaching. He spent a lot of time to record videos to teach us. | 5 | 5 | 4 | 3 |
| 27. | I know the course is both ECE590 and Math560 so there are quite some students from outside the department and don't have a background of programming. But I hope there can be some practical sessions for students from ECE department to implement some algs or data structures under guidance and receive feedbacks | Helpful. This course includes many useful topics and I learnt a lot. It is predictable that these contents I learnt will help in my future career. | The instructor provided multiple ways for me to provide feedback, and I can see that he has been trying to teach in a way that students may feel the most comfortable, including the teaching pace and the choice of some free topics. | 4 | 4 | 5 | 3 |
| 28. | Nope | Advanced I have learned a lot of advanced algorithm useful. The algorithms that professor discussed are commonly used. It's beneficial for both employment-oriented students and research-oriented students. | He is very hard-working and try his best to help us learn the knowledge. | 5 | 5 | 4 | 3 |
| 29. | Everything is great. | Responsive. Plenty of office hours and helpful TAs. well-arranged. Great slides, great homework and great projects! A wonderful course, I will definitely recommend every ECE student take it. Thank you professor!! | His course is very useful to us, with great materials and useful homework. Besides, he provides plenty of office hours to make sure that we can catch up with the course. He is very good at organize the course, including adjusting offices hours, adjusting the due time for the homework, giving anticipated grade and so on. | 5 | 5 | 5 | 3 |
| 30. | | Interesting. | Explain the course materials quite clear and in a practical way as a theory class. Lots of recordings cover content that may not have enough time to be explained in class when work in team on worksheets. Enough professor and TA office hours. Workload is not heavy but homework is quite appealing and is closely related to the lecture with moderate difficulty and is heuristic. | 5 | 5 | 5 | 3 |

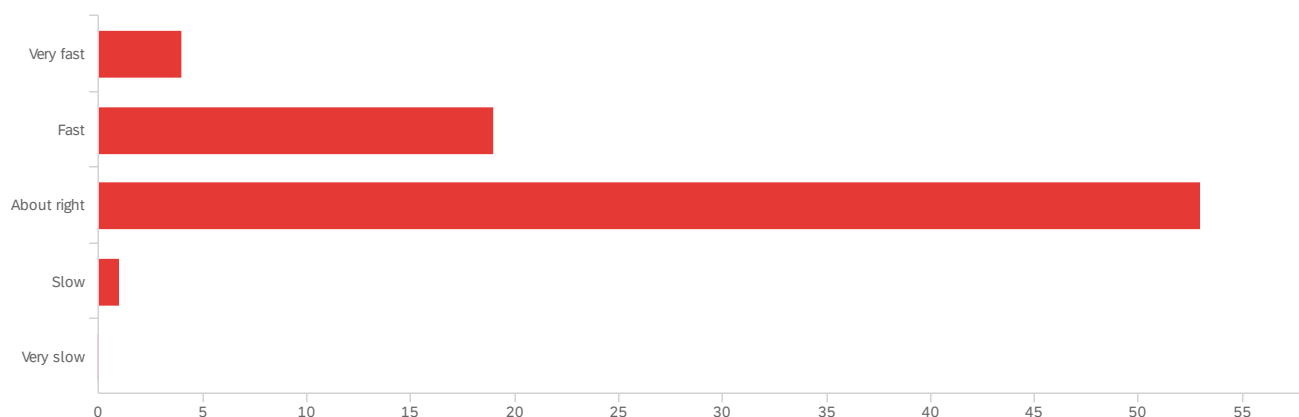
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|-----|---|--|--|---------------------------------|------------------------------------|------------------------------|----------------------|
| 31. | The course devised very well and taught very well. | excellent | Developed my interests in algorithm. Eric is very responsible and patient, and teaches very well. | 5 | 5 | 5 | 3 |
| 32. | Really satisfied | Excellent. Nice design, interesting homework and projects. Excellent!!! professor | Very responsible! 6hours office hour a week. He likes students and loves teaching. He really deserves this award. Could not find another better person! | 5 | 5 | 4 | 3 |
| 33. | Eric is so nice and I feel so lucky to take his class. He is so responsible and make every efforts to make sure we all understand the concepts. For all of those homework and projects, I also find them very useful to help me better understand and use the algorithms. | great! Eric introduces many useful concepts and algorithms that would help me a lot in future. | Eric is very responsible. He recorded a lot of recordings before class for us to better understand the contents. He explained every concepts in details. To make sure we all understand the concepts, he even add more office hours. | 5 | 5 | 5 | 3 |
| 34. | This is the best course I've taken at Duke. The professor is knowledgeable and truly love teaching. He is well-prepared for every class, even just small talk, and responds soon even in the midnight at Piazza. My only suggestion is that this course could provide some pre-training materials for object-oriented programming in the first half of the semester so students with little programming experience could get through the second half semester smoothly. | best, knowledgeable, well-prepared, hard-work | This is the best course I've taken at Duke. The professor is knowledgeable and truly love teaching. He is well-prepared for every class, even just small talk, and responds soon even in the midnight at Piazza. | 5 | 5 | 5 | 4 |
| 35. | More projects and less homework will be better. | Useful & Comprehensive This course is the best algorithm course ever! Very comprehensive introduction from FSM to different useful algorithms, with logical proof in Mathematics. | Eric is the best professor for students, he allocates 4-8 hours a week for Office hour himself, answering questions thoroughly. He also provides many opportunities like videos , breakout rooms, study groups to practice algorithm similar in interview and work. The most important is that his teaching style is very easy to help us understand difficult algorithms. | 5 | 5 | 5 | 3 |
| | | - | Averages (5pt scale): | 4.94 | 4.97 | 4.89 | 3.13 |

Default Report

Midsemester survey for Topics in Algorithms 2020

November 29, 2020 12:09 AM MST

Q1 - What do you think of the pace of this course?



| # | Field | Minimum | Maximum | Mean | Std Deviation | Variance | Count |
|---|---|---------|---------|------|---------------|----------|-------|
| 1 | What do you think of the pace of this course? | 1.00 | 4.00 | 2.66 | 0.59 | 0.35 | 77 |

| # | Field | Choice Count |
|---|-------------|--------------|
| 1 | Very fast | 5.19% 4 |
| 2 | Fast | 24.68% 19 |
| 3 | About right | 68.83% 53 |
| 4 | Slow | 1.30% 1 |
| 5 | Very slow | 0.00% 0 |
| | | 77 |

Showing rows 1 - 6 of 6

Q4 - Please comment on how helpful office hours were. For example, you might say "the instructor did not address my problem" or "the instructor answered my questions so I understood" or "there were too many people there for me to get help" or "I was more confused at the end". Please provide feedback so that I can be more helpful during office hours.

Please comment on how helpful office hours were. For example, you might sa...

The office hour is extremely helpful. It is one of best class I took in terms of getting help whenever I need!

the instructor answered my questions so I understood

the instructor was pretty helpful

Useful, many office hours running everyday so it is very good.

Most of the time the instructor was able to address my problem, but sometimes there were too many people there or the instructor would spend almost the entire office hours with one student in a break out room so there would be no time left to ask my question.

The tas were very helpful.

The instructor addressed my problem and helped me understand better.

Sometimes it was difficult to understand the English, so it depended. All in all, they have been helpful!

The office hours are very helpful.

The instructor answered my questions so I understood.

the instructor answered my questions so I understood

The office hours were very helpful and the instructor was kind enough to answer some of the open ended questions that I had.

I would suggest a form of mini lectures(either by TA or professor) during OH since many questions are probably repetitive. Then that will leave more time for 1-on-1 period.

I understand that TA cannot directly say the answer to the assignment, but sometimes TA avoids the question too much, so that my question is not answered

Very helpful.

Please comment on how helpful office hours were. For example, you might sa...

the instructor answered my questions so I understood

It was hit or miss. For the projects, not as helpful.

the instructor answered my questions so I understood

I had my question answered, so I understood knowledge points better.

Help me understand the materials that I am not sure of.

he instructor answered my questions so I understood

The professor explained the problem clearly!! Couldn't be better.

I have always come away from office hours understanding more than when I went in. They have been quite useful.

the instructor answered my questions so I understood

The instructor answered my questions so I understood.

Office hours are very helpful! Thank you for your work!!

I have a very wonderful experience and the only problem is related to my own network. hahaha

The instructor answered my questions and gave me helpful suggestions.

I attended a TA's office hours and they were helpful.

all questions are set

the TAs always did a good job helping me understand what was stumping me

the instructor answered my questions quite clearly so I understood, pretty helpful

I think it will be better if professor could separate his office hours to other days of the week.

help me a lot to understand the content

The instructor can find some little bugs in my project which I stuck with and are hard for me to notice

It is no exaggeration to say that those were the best office hours I have attend. I really enjoyed discussing any problem I have with the professor.

Office hours are very helpful. Both Professor Autry and the TAs answer questions clearly. I am glad that they are willing to elaborate more on homework problems and explain concepts. Also I think it's great there are so office hours many available.

The instructor was helpful and addressed my problem well.

the instructor answered my questions so I understood

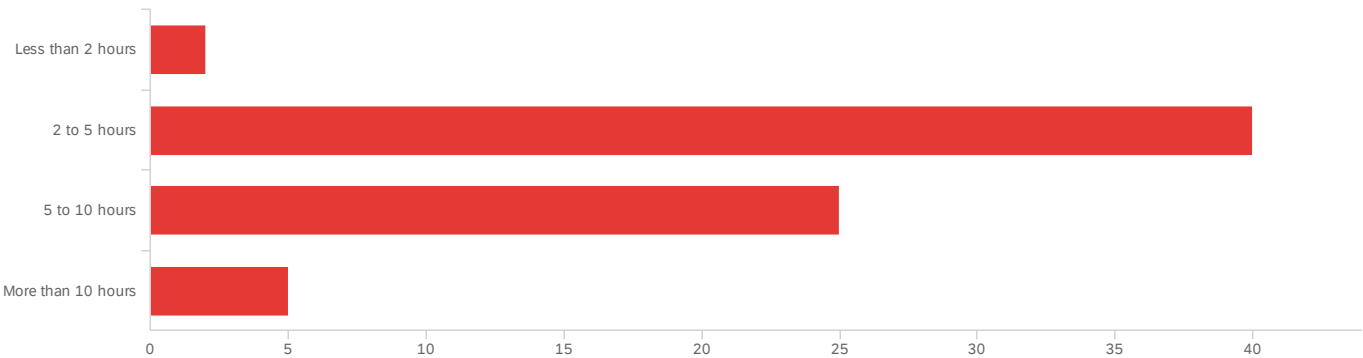
Please comment on how helpful office hours were. For example, you might sa...

very helpful

The office hour is very helpful, both TAs and professor can help me clean my thought and guide my thinking logic to the correct direction.

the instructor answered my questions so I understood

Q7 - In a typical week, how long does it take you to do the homework?



| # | Field | Minimum | Maximum | Mean | Std Deviation | Variance | Count |
|---|--|---------|---------|------|---------------|----------|-------|
| 1 | In a typical week, how long does it take you to do the homework? | 1.00 | 4.00 | 2.46 | 0.67 | 0.44 | 72 |

| # | Field | Choice Count |
|---|--------------------|--------------|
| 1 | Less than 2 hours | 2.78% 2 |
| 2 | 2 to 5 hours | 55.56% 40 |
| 3 | 5 to 10 hours | 34.72% 25 |
| 4 | More than 10 hours | 6.94% 5 |

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Showing rows 1 - 5 of 5

Q8 - In this course, what is a challenge for you? Please explain whatever you find challenging.

In this course, what is a challenge for you? Please explain whatever you fi...

I think the professor did great job explaining the concept, but since I have little background in the field, I need to spend long time referring back to lectures and notes when doing the implementation.

When I was taught an algorithm, I find it is hard to translate in code

implement the algo into code

the proofs

Getting poeple to talk during breakout rooms

The proofs, writing out the algorithms formally, and coding sometimes.

writing all codes in python

how to arrange my time efficiently

prove takes me lots of time to solve

the math part is challenging

Understanding the project requirements.

Some mathematical proof that needs description.

Coding, pace of course

Sometimes, we need to ask questions to clarify the meaning and requirements of questions.

When the assignments and projects hit at the same time, I find it takes quite a bit of time to keep up with the courseload while managing other courses

Turning Machine is a challenging for me.

Memorizing a number of algorithms that are sometimes not directly correlated

Being new to Python (but not programming)

thinking of new algorithms for some homework questions.

NO

In this course, what is a challenge for you? Please explain whatever you fi...

the projects

Sometimes it is difficult to design a good algorithm to deal with a problem.

To summarize the materials.

I have never studied data structures, so it will cost me some time to understand them and implement them into algorithms

Precisely describe my algorithm

Use python to program, but not too much. It is OK.

Too many language description required questions. That costs a lot of time for me to compose an answer. Could you just focus more on algorithm application or calculation rather than description?

TUring machine

The homework is a little bit heavy, but this is understandable, since we do not have exams.

the Turing machine

The pace of the class as it takes a lot of reviewing to keep up.

Algorithms

Dynamic Programming.

Understand the programming part in the project and debug it

Homework. After finishing the homework, it seems that it is pretty reasonable and useful. But I always feel I don't know where to start and need spend hours on it.

Programming and debugging

It is a bit challenging to start with the homework, sometimes I just had no idea.

There are so many videos to watch and prepare. Sometimes because of the poor internet I cannot finish watching them quickly.

Some of the theory is complex when it is not backed up with an example (runtimes, implementation discussions, etc.).

Use latex to edit homework solutions, especially draw graphs of DFA/NFA and recursion tree.

New concepts.

I had a hard time wrapping my head around calculating runtimes at first

The general idea of the concepts are understandable. However, it is a little tricky for me to consider the trivial parts (boundary conditions, whether it is k iterations or k-1 iterations in a recurrence relation) of some algorithms.

In this course, what is a challenge for you? Please explain whatever you fi...

Understanding the materials

I understood what professor taught at class, but when I do my homework, I need time to review and digest them again. And I find that I did not understand comprehensively at class.

the project, since I have no experience with python

sometimes the video is so blurry that I cannot see the board clearly

The calculation of runtimes of complex algorithm. Because sometimes we do some approximation and omit some instructions, it makes me feel a little bit unsure of our answer.

Having a deep understanding of the analysis of an algorithm. It is easier to understand how the algorithm briefly works, but the analysis of why it is correct or how does its runtime look like will need more time to understand.

To understand algorithm in a mathematical way

It's a bit challenging for me to follow along without the slides/notes. These help structure the content more easily for me. The class has also picked up pace quite a bit, and it has been harder for me to keep up without seeing the slides ahead of time or shortly after class. I'm usually relearning the material as I go through the homework and projects.

Coding is challenging, because I often do not know the technicalities of compiling, packages, etc.

Implementing the correct algorithm

code

understand the material in lecture time

learning new concepts is always challenging (Turning Machines, different searching algorithms, graph algorithms), but the HW and projects are very helpful for me to understand those concepts better by reading notes and joining office hour

the speed is a bit fast

How to explain an algorithm concisely

Q13 - What aspect of the course have you liked the most?

What aspect of the course have you liked the most?

the recordings before class

The lecture is great and I really appreciate the effort of extending office hour in this online period.

I like the part that the professor walk through every step of the algorithm in details and with examples

the explanations of the algorithm are pretty clearly

I like the way you deliver knowledge. You provide many examples which help me understand the content better.

I think the variety of content covered is really cool. Feels like a solid overview of algorithms

The instructor teaches the course very well.

I like the short videos that we can watch before class. Those are easier to digest and allow me to process information before the big lecture

worksheet

slices are clear

work load is not too much and I learned a lot by doing homework and projects

the introduction of dp helps me a lot

Prof explained everything very clearly, and the ta are helpful.

Like the homeworks, and also when the professor going through examples

Introduction of algorithms.

Worksheets, the homework with stories and pieces feeding into each other

Prof. Autry explained everything very detailed.

The videos are really helpful as well as the office hours

The algorithms.

I really liked the sorting algorithms part and how we derived the complexities from scratch. Also the HW problems were very well thought of.

Projects. It helps me improve my programming skills and deepen my understanding of class materials.

Very useful and fun!

What aspect of the course have you liked the most?

The pre-recorded lectures were both very useful and an excellent way to shift the focus on discussions and other details during class. It is amazing how much effort went into their preparation.

I can learn more and understand more through HWs and Projects

Studying all classic algorithms with details

the detailed discussion about the runtime calculation for different algorithms

I understood how runtime is calculated, and I learned runtime of some well-known algorithms.

Pre-recorded video & excellent instructors & responsible TAs & Very quick answer in Piazza

Love Eric so much hahaha. Never seen a teacher being so responsible and you care about us so much!!!! Thank you!

There are many office hours and the professor's lectures are very clear

The lecture! Professor explains everything clear and interesting!

The lecture is easy to follow.

The algorithm part

The examples given are great. They are rather useful for me to understand the algorithms.

the analysis of algorithms

The professor! Very kind and understanding and love his enthusiasm about teaching.

Algorithms

The instructor has explained everything very clearly.

The lecture materials and assignments are really helpful. I think professor is really responsible and I can feel that you expect us to learn something from this course

plentiful TA office hours

The wonderful material and detailed presentation

office hour, pre-recording

The lectures are excellent and well-prepared.

I really enjoyed covering the computer science theory at the beginning and I enjoy being able to implement algorithms more than discussing their theory.

Programming projects!

What aspect of the course have you liked the most?

Lectures and videos

Drawing the finite automata to identify languages, and designing algorithms

The notes and lecture recordings are all very helpful resources.

the path and the instructor's lecturing

We have pre-recordings to prepare for classes, through which I could understand material at class much better. Also before filling out weekly-survey, I always review again what I have learnt during one week. I benefit a lot from weekly survey.

the study groups and discussion on class

pre-course recordings

The algorithms are explained in examples and the examples are step by step and thus quite clear and make the algorithm easier to understand. I also appreciate the stories in homework, it's either funny or close to real life.

The content of the course is well-organized and clear enough.

the combination of pre-class recording + lecture + homework

I've really enjoyed learning about DFAs/NFAs and am looking forward to the projects to practice thinking through and programming the different algorithms we've learned.

I have liked the theoretical components about computability and models of computation near the beginning of the course the most.

Explaining the algorithm with examples, writing projects and implement algorithms with programming language

example

different algorithms

All (listening lectures, doing homework and projects, table discussion, discussion and asking question in the office hour)

the instructor explained the algos very clearly

I like the assignments, it helps me to fully understand all the course material

Q14 - What aspect of the course have you liked the least?

What aspect of the course have you liked the least?

the worksheet in class. We don't have idea most of the time.

I would like to have one or two Friday off once a month as a Q&A section or discussion so I can catchup with the fast path course, especially with the number of recording materials we have to watch.

I think the outline of the course could be a little clearer, like using a pdf to connect content together so that its easier for us to connect the dote between different algorithms.

The questions in homework sometimes ask us to explain the answer, I always spend a lot of time on that explanation part

the pace is a bit fast

Written HW

Breakout rooms

I don't like the overlapping assignments. It induces a lot of stress with all the deadlines floating around.

nothing

sometimes the zoom video isn't clear

too many pre-class recordings. I am just wondering if it is possible to include all content during class time

Mathematical derivation

The projects are aligned very close to end of course, and make the pace very fast towards the end

in-class discussions, sometimes even we will sign up for the table, there are still people that does not talk at all during in class discussions

Proof about the correctness of some thoery and algorithms.

The speed is very fast, not as many worksheets the last few weeks

Weekly survey, basically I asked questions on piazza.

The courseload maybe a little overwhelming other than this I do not really have any complaints about this course.

The concepts of DFA, NFA something like that. We spent nearly a month in this part which may not be so helpful for interview and find a job.

I did not like the fact that we had too little time to do the worksheets.

Classes are short and scattered throughout the week.

What aspect of the course have you liked the least?

The proof part is always confusing. I don't like the breakout room.

I didn't dislike the worksheets, but I felt that they didn't achieve their full potential due to the technical aspects (i.e. online learning and all the relevant challenges such as internet speed, people talking over each other, etc)

Sometimes, class is fast to catch the HW or Project.

Everything is well, but I also wish we can have lecture notes posted before lecture.

The material about the FSM in the first month.

Everything is assigned at the same time and makes it feel like we have an endless amount of work. Project 2, 3, 4 and HW 7 is assigned right now. This is bad for a students mental perspective on the class. I feel so behind when really I'd be in a good spot if things were assigned sequentially.

We spent much time on the state machine at the beginning, so we go through algorithms a little bit fast.

It might be asking too much, but I wonder if it is possible to have some courses/materials related to summary/revision, so that I can make sure if I understand thoroughly.

Hate nothing currently. Everything is helpful for me

I like all of them!

The lecture slides are not well-organized, I mean, I would more like a well-written handout or textbook as reading materials rather than only slides with pieces of language.

finite state machine part.

That fact that it's online. I think we miss out on a lot of the personality and excitement of the class as a result.

Mathematics proof

Too many hw proof questions.

nothing

None!

do not have a syllabus-like text book to pre-learn the material

none

I didn't enjoy the work tree method, I found it challenging to understand.

worksheet, as I usually don't have enough time finish them in class...

group discussion

What aspect of the course have you liked the least?

The introduction of data structures makes it confusing to keep track of all the tools we have to make efficient algorithms. Probably unavoidable -- reality is complicated. But that was the most frustrating part. Like one algorithm will be the worst until we store the data in a different way and then it will be the best.

the slides are not updated on time in recent weeks

NA

Sometimes I could not see the whiteboard quite clearly,

too much preclass videos lol

none

Nope. Things are arranged quite well. Maybe the worksheet we used to have, I find it hard to work through all questions, but maybe that's because it hard to draw pictures online...

I think the course session is a little bit...short? Personally I would prefer two 1.5 hour sessions per week rather than three 1 hour sessions per week. Considering that this year the course need more sessions for different time zones, it is acceptable anyway.

turing machine

Sometimes the recorded videos and slides are posted a bit too late, which makes it a bit harder to stay up to date with the material.

I have liked the coding aspect the least, since I become very frustrated.

If I must choose, I would say a little bit less talk for state machines.

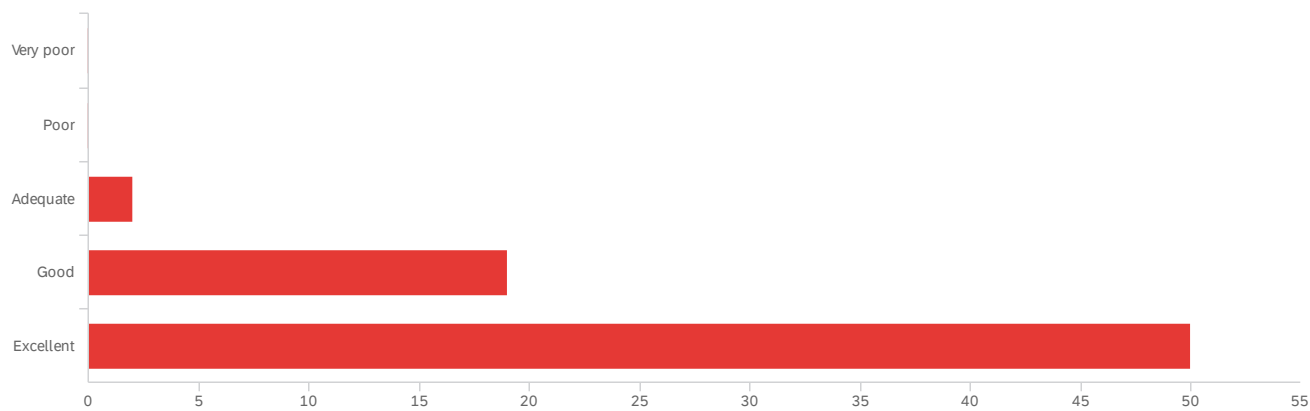
things that are not that applicable

none

the camera is always blurry and handwritings in the whiteboard are not clear enough.

None!

Q11 - Give an overall rating for the quality of this course.

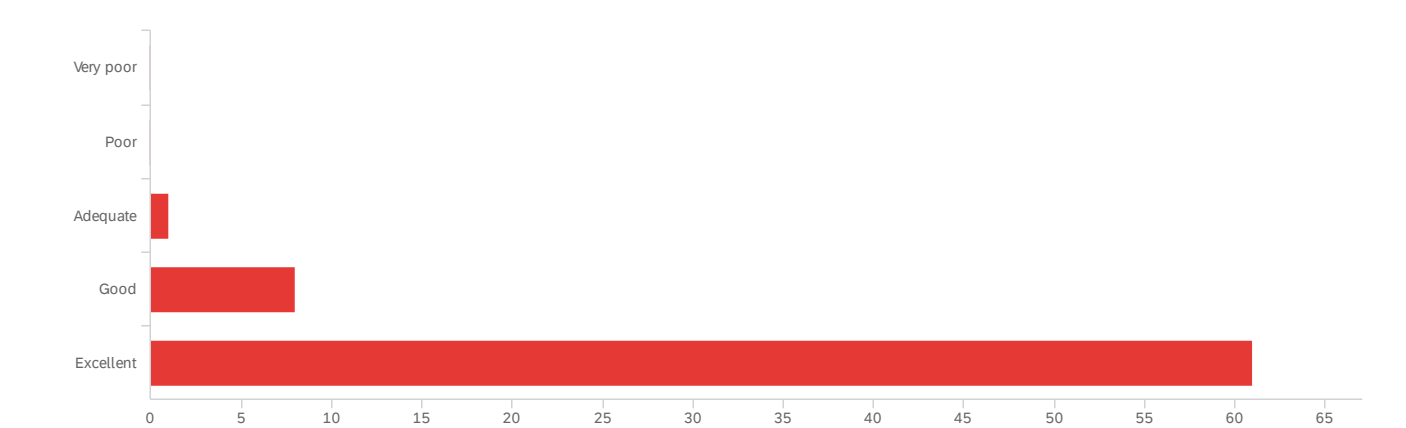


| # | Field | Minimum | Maximum | Mean | Std Deviation | Variance | Count |
|---|--|---------|---------|-------|---------------|----------|-------|
| 1 | Give an overall rating for the quality of this course. | 3.00 | 17.00 | 13.13 | 5.98 | 35.74 | 71 |

| # | Field | Choice Count |
|----|-----------|--------------|
| 1 | Very poor | 0.00% 0 |
| 2 | Poor | 0.00% 0 |
| 3 | Adequate | 2.82% 2 |
| 4 | Good | 26.76% 19 |
| 17 | Excellent | 70.42% 50 |
| | | 71 |

Showing rows 1 - 6 of 6

Q12 - Give an overall rating for quality of the instructor.



| # | Field | Minimum | Maximum | Mean | Std Deviation | Variance | Count |
|---|---|---------|---------|------|---------------|----------|-------|
| 1 | Give an overall rating for quality of the instructor. | 3.00 | 5.00 | 4.86 | 0.39 | 0.15 | 70 |

| # | Field | Choice Count |
|---|-----------|--------------|
| 1 | Very poor | 0.00% 0 |
| 2 | Poor | 0.00% 0 |
| 3 | Adequate | 1.43% 1 |
| 4 | Good | 11.43% 8 |
| 5 | Excellent | 87.14% 61 |
| | | 70 |

Showing rows 1 - 6 of 6

Q9 - What would you like to tell the instructor about the course?

What would you like to tell the instructor about the course?

I really like the way the professor explains algorithms.

I really like the course and learn a lot!

Keeping give us more examples and explain them in the course, I find the best way for me to master an algorithm is by solving a specific problem.

It is pretty good. Thanks for you work!

You are great!

This course is really well taught and I feel like I am learning a lot. I don't think I would have learned as much had I taken any other algorithms course. The care that is taken to explain topics and make sure students understand these abstract topics is rare in a lot of higher level math and algorithms courses.

you should sleep earlier !

it is great,

Excellent. You are a pretty good teacher!

You helped me learn a lot of stuff and I am very grateful to you.

Thank you! I love the homework and worksheets and your instruction.

It's a nice course

I really appreciate the instructor spend the time recording many videos for us to learn and follow either prior to the class or after. I really like the course a lot, the way the instructor is teaching and explaining concepts are excellent.

Maybe we can shorten the time we spend in the EDA part?

Keep up the good work.

Although this is not how we like it to be, you managed to make the course more interactive than I expected. Thank you for the effort you put in, whether it is pre-class recordings, assignment/project design or office hours.

Great material!

Thank you so much for being passionate about teaching this class. It is obvious in every aspect -- the quality of the prerecorded videos, the lectures, providing chance for extra credit etc, and dedicating all these hours per week for the course. Very few professors do that.

Although, I had some hard time to catch, I am very satisfied with this class.

This course is really helpful and it meets all my expectation for what I want to learn about algorithms. Thank you a lot!

What would you like to tell the instructor about the course?

GOOD!!!!

You are very excellent instructor!

Love Eric so much! Actually we students always call you Angel Eric cause you are so nice. I also notice that you still work in the mid night. Please be careful about your health and keep enough sleeping time!

The course is excellent.

I really enjoy this course! Could you please open another course for ECE students?!

Too many language description required questions. That costs a lot of time for me to compose an answer. Could you just focus more on algorithm application or calculation rather than description?The lecture slides are not well-organized, I mean, I would more like a well-written handout or textbook as reading materials rather than only slides with pieces of language.

You are very responsible!!! A excellent instructor!

Great lectures!

I think you are a fantastic teacher and I really love how enthusiastic you are about the material that you teach. It makes a huge difference to me when I can tell the professor is not only trying hard, but is excited about teaching material. Also I really appreciate the homepage you have on sakai as it makes finding resources SO much easier. This being a semester with no breaks or holidays it has been extremely rough/mentally draining and the fact that you made a review session and pushed our deadlines back was HUGE. It may be hard to see, (lol zoom) but me and my friends in the class appreciate all your effort and the work you put in to teaching us and making sure that no one is falling behind. Also really enjoy when you tell us about real life examples of how these algorithms have been implemented. Keep up the amazing work!

Thank you very much for your help in both lecture and office hour!

I really like the way Prof. Autry teaches.

A little challenge for the people who are with zero programming experience in the project. Actually I and my partner are in the same major not ECE and we dont have programming class before. But in our study group, the other two people are ECE students who are partners. :(

You are the best professor I have meet in Duke! Take good care of yourself. I am worried to find that you always stay up late to work. You have done great work,

Hi, the wonderful material and useful tools(like fsm drawing website) is very interesting and significant. I really want to learn about how to do it.

You are so great!!!

The course is great! And we really thank you for your hard work :)

I enjoy the course and understand that this semester is an unusual one so I appreciate all the efforts to make the semester go smoothly.

Really love this course!

I learned a lot in this course. Thank you.

I really appreciate the way you set up this online course. My other course this semester put much less effort in, and it really shows how much thought and effort you put into making the online format work, and it works really well

What would you like to tell the instructor about the course?

I really enjoy this course. I think this course covers a lot of the knowledge the tech companies are looking for. Some homework problems (like the dragon hunting problem) are very interesting

It is a nice course, keep moving, Eric

I find the course quite useful, especially when I write code.

Great work and great professor!

so lucky to take your course

The course is excellent. Thank you for spending a lot of care on this course~

The course up to now is great. The quality of online course is much better than I expected, credit to the professor's efforts.

Your explanation is very detailed and I really enjoy most of the course content

This course has been great in helping me learn more about the theory behind algorithms. The assignments reflect the content well and encourage problem-solving. I also learned a lot recently regarding big O notation, since before this class i had heard of it but didn't fully understand it.

I think that sometimes the examples could go a little bit faster.

Eric is quite productive and dedicated! He will respond in Piazza in time even in midnight. I can clearly see that he is indeed trying to help us to understand the algorithm and succeed in this course.

I would like to learn more in this course, and I want to learn how we can decide to break whole function into several small functions to run the recursion during program design stage. (I can just follow the pseudo code you provide in the note and finish the coding work quickly, but I actually am not confident that I can design the algorithm I want from scratch)

I hope there will be fewer pre-recordings to watch and more of the contents could be covered in class so that we can ask questions whenever we want during the class.

The course is great! I'm not from a strong math/coding background, but I think everything is clearly explained, and the workload is okay for me. I think I'm learning a lot from this course.

Q15 - What suggestions do you have for the instructor for running the course? For example, if you have seen something in another course that you think would work well in this course, please tell me about it.

What suggestions do you have for the instructor for running the course? For...

In terms of online classes, some of my class have a fixed small group thing. So for every worksheet we have in the class, we have the same group of people to work with. I think that works well because we have more interactions with the small group people and improve the work efficiency.

I think the first portion of class, which is turing machine and state machine could be less of a focus.

Maybe sometimes when no one answers, you can pick someone randomly to answer the question. I think it may make students more involved in class.

None that I can think of.

It would be nice if the worksheets were more available before class so that students who need more time can go over it before the breakout sessions. Additionally, the overlapping assignments is not helpful and just induces a lot of stress. And lastly, if you could encourage TAs to limit the time they spend with one student in the breakout rooms so that you can help more students.

So far, I think things go well in this class.

Maybe can put slides out in advance so that we can know what will talk in class

Maybe we can have some pre-class reading materials to read, I think they can cover more things.

Having more worksheets and having a break day every now and then would be very helpful!

No, it's already great right now.

Again, the way the instructor has organized the course is the best online version I have seen. The while board is helpful, the video is helpful, we also have plenty of office hours from TA and the instructor himself. A little thing to consider might be it would be great if we can spend some time in class talk about assignments/projects.

Excellent course.

I think a brief demonstration with code on how the output of these projects should be would help.

I really don't like the discussion in breakout rooms because I rarely know others. Sometimes nobody is talking. I think maybe it would be better to assign the study group at the beginning of the semester and work with the same people for the whole semester.

- I found that using iPad with Apple Pencil to be a good substitute to whiteboard in some cases, but it really depends on the instructor's teaching style and the presented material. - For in-class worksheet, I suggest creating a guideline for students. For example, it can include suggestions for platforms or online tools that students can use to facilitate the discussions (Zoom's whiteboard is awful in my opinion, I strongly suggest something like awwapp), in addition to online meeting etiquettes since most students (including myself) are oblivious to (e.g. when to talk in the absence of visual cues).

What suggestions do you have for the instructor for running the course? For...

Maybe we can reduce the time on the FSM and introduce more algorithms.

Don't assign 3 projects in advance and talk about project four when project 2 isn't due. This stresses me out, and I'm sure I'm not alone

Not much! Eric and his course is the best now! :D

Give Eric my love again!!!! Keep going!!!!

One little thing I want to suggest is that I think maybe more difficult homework may drive students to understand the concepts or algorithms better

Cannot think of any. This course is really excellent!

I would like to provide a suggestion to instructor that please consider to condense the contents into every lecture, rather than divide them into several small video records, or consider to write a handout with several full paragraphs. Watching video costs too much time after class, even though that's easy-following. Doing reading is more efficient for me to self-study. What's more, please consider to provide more example questions for us to reference when doing homework.

For video lectures that we watch for homework, it would be really nice if these could be out the day before as my MWF schedules are a bit more stacked and it makes it hard to watch them during the day although I know it is a TON of work to record and edit them. Also getting the weeks up to time but I understand this is also in the same boat. Perhaps some of this work could be passed to the TAs? Would also like to suggest speeding up DFA/NFA stuff and going a little slower on the rest of the course (the harder stuff) if possible. Maybe 1.5 hours lectures are better cause it seems like our classes are so short.

More programming questions in assignments will be interesting, like ECE551

I just think it may be better to have more coding assignments.

Just like I mentioned, I know it will be really hard to assign a partner. Maybe next time can assign a partner more reasonably.

Since we have lectures on Friday night, can we add or move some office hours on Saturday? The thing is, I think it's more helpful if we have someone to ask after every lecture.

I think you can apply for a virtual machine like ECE551, so that we all will have the same environment and we can easily get a nicer result. As in project one, I find that Mac and Windows will give pictures with different qualities. The picture drawn by windows will fluctuate more seriously.

none

I would enjoy more grounding for the theory such as more pseudocode for algorithms or examples for theoretical concepts.

Maybe we can have more materials about the actual application of the algorithms covered in this class.

Sometimes I can't see the white board clearly in zoom meetings.

I felt like a little less time could have been spent on the finite automata. Even though that was really fun and interesting, I feel like the rest of the course didn't build that much on the nuances of finite automata.

I think the pace for the first couple of weeks could be faster, and the pace for the lectures after Turing machine could be slower.

I hope that professor can add some applications of each algorithm, according to professor's own practical experience.

What suggestions do you have for the instructor for running the course? For...

My professor for linear system theory used some kind of apps for handwriting board in class. I think this gonna help if Eric could use similar tools because the board writing is hard to see through the camera sometimes.

one tiny suggestion: would you please upload the course syllabus and all the course slides on Sakai before the course if convenient? (sometimes you may forget to do that... I always want to preview the slides before class to catch your teaching pace)

Please get enough sleep. I found that professor has been answering the questions on Piazza whatever the timezone is...

we can have more practical and bigger projects

I find the lecture notes to be helpful for following along with the class/recorded videos. Recently they haven't been posted as often, so if those can be posted earlier I think it would be very helpful. Regardless, once they are posted, I can go back and watch the recording to make sure i understand the material. I think having some more worksheets would be helpful for thinking through these different problems. It may also help to reference some outside sources that explain concepts and go through additional examples.

I feel this course is the best choice for me in this semester. The pre-course recordings, setting up studying groups and providing lots of office hour are all great for me (especially for the remote learning).

You could try to use google slides during the course, and you can see the questions students ask during your presentation. This should be easier to track compared to zoom chat.

End of Report

| Overall Appraisal of Course (Math 590, Fall 2019) | Adjective to Describe Course | Why Recommend For Award | Q1 - Quality of Course | Q2 - Quality Instructor | Q3 - How Much Learned | Q4 - Workload |
|--|---|--|------------------------------|-------------------------------|-----------------------------|------------------|
| 6. | | The most dedicated professor I have ever had. Went above and beyond to update the course, provide additional (original) content, and host as many office hours as possible. Incredibly patient and extremely understanding. I refuse to believe there is a better teacher at Duke. | 4 | 5 | 5 | 3 |
| 7. One suggestion: doing examples on the white board can not be clearly seen | Excellent and interesting | Prof.Autry provides an excellent course introducing algorithms. He is really enthusiastic and passionate. I enjoyed the examples he did during class and talks with him in his OH. I think he adapted the content pretty well for beginnners and managed to encourage all the students especially those who feel left behind | 5 | 5 | 5 | 3 |
| 8. The homework and project are great | The design of this course is great but sometimes several lectures are taught too quickly. | | 4 | 4 | 3 | 3 |
| 9. Eric is so adorable. He has the longest OHs then instructors from other course. He always answer questions on piazza in person, instead of letting TAs deal with it. He would spend a whole hour during OH, trying to explain some tricky stuff. We learned a lot from this course. | Perfect. | He is SOOOOOO responsive. He always attempt to provide maximum help. We like him so much. | 5 | 5 | 5 | 3 |
| 10. The course was good. I felt the material was logical and the approach of teaching was good too. | Good | Devotes a lot of time in office hours and his office hours are the best. You can never leave the office hour with a doubt. | 3 | 4 | 3 | 3 |
| 11. | Good course, with an truly excellent professor. | He devotes a lot of time and efforts inside and outside class helping us to understand difficult materials. He is really helpful! | 5 | 5 | 5 | 3 |

| Overall Appraisal of Course (Math 590, Fall 2019) | Adjective to Describe Course | Why Recommend For Award | Q1 - Quality of Course | Q2 - Quality Instructor | Q3 - How Much Learned | Q4 - Workload |
|--|--|---|------------------------------|-------------------------------|-----------------------------|------------------|
| 12. I think the homework is very hard, that is all | fun, interesting, tough the class is good, the teacher is good at teaching. the topic of the class is interesting the homework is very hard | the teacher is hardworking, and he prepares class very seriously, we all love him. I still remember how fast he answer our questions on Piazza in mid night. I wanna say really thank you | 4 | 5 | 3 | 4 |
| 13. Going a bit too fast on greedy algorithms. | A great course for algorithm introduction. The course is well-paced and the load is quite suitable. | Prof. Autry lectures the topics in the course with in-depth explanation, but also with plenty metaphors and concrete details. This approach makes the topic much easier to understand. | 5 | 5 | 5 | 3 |
| 14. The course is useful and interesting. | Useful. Things that I learned from this course is useful especially during an interview. | The professor is knowledgable, and you can understand what he said easily. He also makes me interested in this course. | 5 | 5 | 5 | 3 |
| 15. So good | Excellent | He is so good at teaching! The class is fun. And he is willing to spend time to discuss with strudents and help us. | 5 | 5 | 5 | 5 |
| 16. | Useful, this course gives me a whole new viewpoint to algorithm, very helpful for me to deeply understand an algorithm. | Eric is such a patient and hardworking professor, sometimes he will answer our question on piazza almost immediately even in midnight. | 5 | 5 | 5 | 3 |
| 17. I think Duke should give professor Autry more pay and make sure he can teach in a classroom we a good whiteboard eraser. | Well designed. Algorithm is a hard subject, and it's hard to teach. However, professor Autry make the course very clear. | He is such a smart, funny and the most important, responsible professor. | 5 | 5 | 5 | 4 |
| 18. | great overall. Class is great, homework and project is in adequate amount to help us practice our knowledge. | | 5 | 5 | 4 | 3 |
| 19. good | good | helpful materials, good lectures, nice person | 4 | 5 | 4 | 3 |

| Overall Appraisal of Course (Math 590, Fall 2019) | Adjective to Describe Course | Why Recommend For Award | Q1 - Quality of Course | Q2 - Quality Instructor | Q3 - How Much Learned | Q4 - Workload |
|---|---|--|------------------------------|-------------------------------|-----------------------------|------------------|
| 20. everything is great. | Great. All the algorithm is well explained. | Great teaching! | 5 | 5 | 5 | 3 |
| 21. | Fun, I not only gained a lot of knowledges, but also have fun learning them. | He is very passionate about teaching and did a very good job in helping students understand the course content. He also spent plenty of time on instructor office hour. I learned a lot in his class. | 5 | 5 | 5 | 3 |
| 22. Great course and great tutor. I really appreciate professor spend time on lecture notes and summary notes. | Worth taking. It not only covers fundamental content of algorithms, but also computation theory. | Eric is a passionate professor, who devotes lots of time and energy to our office hour. | 5 | 5 | 5 | 3 |
| 23. | | He has a clear mind when he is teaching. He modifies his slides after classes and add more details based on the students' reaction in class. He answers the students' questions in piazza in detail and sometimes the answer can take up half of the screen. He hold many professor office hour every week. He is great! | 5 | 5 | 5 | 3 |
| 24. | | | 3 | 3 | 3 | 3 |
| 25. | | He is the best teacher I've ever seen, patient, nice and responsible. | 5 | 5 | 4 | 3 |
| 26. Professors and TAs all help us a lot. Also, the things we learned in this course will benefit us a lot in the future. | Excellent | The professor is responsible and very patience when teaching us. | 5 | 5 | 5 | 3 |

| Overall Appraisal of Course (Math 590, Fall 2019) | Adjective to Describe Course | Why Recommend For Award | Q1 - Quality of Course | Q2 - Quality Instructor | Q3 - How Much Learned | Q4 - Workload |
|---|---|--|------------------------------|-------------------------------|-----------------------------|------------------|
| 27. The only problem is the content. I expect more on algorithms' practical using instead of theoretical analyzing something like it complexity. I don't mean complexity is not important but the course put way too much time in analyzing it. Except this, all are perfect. Workload is just right. Homework is helpful and impressive. Lectures are interesting and the class environment is great. This is literally the best course I have in this tough semester. Thanks Eric, he is so nice. | Excellent. Really a good course that taught students a great deal of knowledge of algorithms. | Eric is patient, professional, enthusiastic. His lecture is the best among three courses I pick in this semester. And he always responds to students very quickly. Thank god I have a course with good lectures in this semester. | 4 | 5 | 5 | 3 |
| 28. | inspiring and interesting | Excellent class presentation and great interaction with students. He holds a lot of office hours, which facilitates student learning significantly. Besides, he is always willing to help with student questions. | 5 | 5 | 5 | 3 |
| 29. | excellent | professor is so cute | 5 | 5 | 4 | 3 |
| 30. Please compress the automata theory part! | Good. Through out this course, I have the intuition of common algorithms and analysis methods. | | 4 | 5 | 4 | 3 |
| 31. the BEST instructor I have ever met!!!! Eric best! Perfect course. No suggestions on improving. | Eric is a very nice instructor, he helps us a lot. After taking this class, I finally understand those classic algorithms. A great course and I certainly recommend it. | the BEST instructor I have ever met!!!! very responsible. always give extra office hours to help us. perfect lecture! clear slides! those algorithm seems so easy thanks to Eric! he truly spends lots of time on preparing materials. A big THANK YOU! Eric best! | 5 | 5 | 5 | 3 |

| Overall Appraisal of Course (Math 590, Fall 2019) | Adjective to Describe Course | Why Recommend For Award | Q1 - Quality of Course | Q2 - Quality Instructor | Q3 - How Much Learned | Q4 - Workload |
|--|--|--|------------------------------|-------------------------------|-----------------------------|------------------|
| 32. The design of the course is great, but I think it will be better if we have less lectures about automaton machine. Not all of us are going to use these knowledge in the future, but algorithms are fundamental to everyone who wants to hunt for jobs, and more fun. I'm expecting less automaton and more algorithms, and also in this way, the work load will be more evenly distributed. The work load after midterm is too much. | Very useful. Enthusiastic. Wonderful. I learned so much about algorithm in this class. | The professor loves teaching! He showed up in many office hours, and he is so enthusiastic about our problems, even the basic one. He cares about our response so much. We just love him! Algorithm is hard to come up, but the professor gives us many examples and use the most vivid language to explain, which is funny and clear. He can always lift up our emotions, and guide us to move towards the correct approach. | 5 | 5 | 5 | 4 |
| 33. | | Eric is one of the nicest professor I've ever met. | 5 | 5 | 5 | 3 |
| 34. I think it would be better if some contents after midterm can be moved to the first half semester. | Quite useful and helpful. | Very knowledgeable and responsible. Always respond to students' questions on piazza clearly in time. Elaborate the lecture notes in an organized manner. | 5 | 5 | 5 | 4 |
| 35. He can give more examples of some algorithms | funny,useful,smart,wow | Eric is smart and always explain hard algorithm in a easy way! I love hin! | 5 | 5 | 5 | 3 |
| 36. | Must-take!! | He is so enthusiasitic and patient! | 5 | 5 | 5 | 4 |
| 37. The course is excellent and materials especially the notes are very helpful. | Wonderful Excellent The content is so important and very helpful for our future job. EVERYONE in ECE should take this course. | Dr. Autry is soooooo nice! His office hour is very helpful and he is listening to our feedback and updating his class through the whole term!!! | 5 | 5 | 5 | 4 |
| 38. i don't know what else Eric can do better | EXcellent!! | There are lots of extra credit can be get to get better scores.And Eric is veryyyy responsible ! | 5 | 5 | 5 | 5 |

| Overall Appraisal of Course (Math 590, Fall 2019) | Adjective to Describe Course | Why Recommend For Award | Q1 - Quality of Course | Q2 - Quality Instructor | Q3 - How Much Learned | Q4 - Workload |
|--|--------------------------------|---|------------------------------|-------------------------------|-----------------------------|------------------|
| 39. The material and slides provided by the professor are very useful. The homework also very useful to understand the concept in the course. Professor provides lots of office hours to answer questions. | Useful, interesting, practical | The professor was super nice. The course material are well designed with very detailed slides. Professor offers lots of office hours and very willing to teach more during the time. | 5 | 5 | 5 | 3 |
| 40. | Great Instructor | works super hard and treat student like his family. Spend lots of time replying any questions that students might have. Replying all the questions on Piazza (Very very important) | 5 | 5 | 3 | 4 |
| 41. | | He is really hardworking and the course contents is interesting. | 5 | 5 | 4 | 3 |
| 42. I think the projects are a little bit too easy. And also it would be nice if we can get our grades of assignments and projects faster. | Practical, informative | Professor Eric Autry is the most passionate instructor I ever had in my study at Duke. The course materials are interesting, well-prepared and of great practical use. Eric did a great job. | 5 | 5 | 5 | 4 |
| 43. | | He put a lot of efforts into the contents of his course, and the way he taught is very clear and easy to understand. | 5 | 5 | 4 | 4 |
| 44. | | Eric is so enthusiasm and he will definitely solve any problem you have(in high level). He even replies to me on piazza after 1 AM i guess, it is just amazing. For the class, I think the content he delivering is so clear. In short, I really enjoy his class. | 5 | 5 | 5 | 4 |
| 45. Good quality | Inspiring | Patience, passionate | 5 | 5 | 5 | 5 |

| Overall Appraisal of Course (Math 590, Fall 2019) | Adjective to Describe Course | Why Recommend For Award | Q1 - Quality of Course | Q2 - Quality Instructor | Q3 - How Much Learned | Q4 - Workload |
|---|--|---|------------------------------|-------------------------------|-----------------------------|------------------|
| 46. I think everything went well and I don't have any constructive suggestions. | Mind-expanding. It is a very comprehensive introductory course for algorithm. | Professor Autry is very patient, responsible and encouraging. His class is also fun. He teaches everything clearly. I really like him. | 5 | 5 | 4 | 3 |
| 47. Prof. Autry gives best lectures I've taken so far at Duke. He's super smart and has sense of humor. I strongly recommend him for the teaching award. | Clear, interesting, helpful | Prof. Autry has a thorough understanding of the field and is always ready to help. He can explain complex stuff in a very intuitive way and it helps a lot to see how he tackles the problem. | 5 | 5 | 5 | 3 |
| 48. Though I have some backgrounds in algorithms, I still learnt a lot of new stuff in this course. The professor is pretty friendly. The office hour is pretty sufficient. There are always many students in his office hour. He always tries his best to help student have a better understanding in some important concept. However, the pace of his course is not very good. The opening of his course always takes much time. Sometimes, we have to extend a few minutes at the end of the course. | Great. Though I have some backgrounds in algorithms, I still learnt a lot of new stuff in this course. The professor is pretty friendly. The office hour is pretty sufficient. There are always many students in his office hour. He always tries his best to help student have a better understanding in some important concept. However, the pace of his course is not very good. The opening of his course always takes much time. Sometimes, we have to extend a few minutes at the end of the course. | Though I have some backgrounds in algorithms, I still learnt a lot of new stuff in this course. The professor is pretty friendly. The office hour is pretty sufficient. There are always many students in his office hour. He always tries his best to help student have a better understanding in some important concept. However, the pace of his course is not very good. The opening of his course always takes much time. Sometimes, we have to extend a few minutes at the end of the course. | 5 | 5 | 4 | 4 |
| 49. I really appreciate the excellent work Erick did in the class. | A really great introduction to algorithm for those whose background is not computer science | The lecture is well structured and the pace of teaching is comfortable for most of students. | 5 | 5 | 5 | 3 |
| 50. The course is well-designed. However, it has too many homework and some projects are not very challenging. | Helpful. | | 4 | 4 | 4 | 5 |
| 51. The part of algorithm is too quick... But Eric is the cutest and supportive professor I ever seen. | Recommended. | But Eric is the cutest and supportive professor I ever seen. Plenty professor OH time, and extra help with our personal project. Also very quick response on Piazza. Well design HW and Proj. | 4 | 4 | 4 | 4 |

| Overall Appraisal of Course (Math 590, Fall 2019) | Adjective to Describe Course | Why Recommend For Award | Q1 - Quality of Course | Q2 - Quality Instructor | Q3 - How Much Learned | Q4 - Workload |
|--|---|--|------------------------------|-------------------------------|-----------------------------|------------------|
| 52. Really good, keep being like this please. | Interesting Some algorithms are really marvellous. BTW, Eric is really good at giving names (hw). | Eric is very nice. He answers questions immediately. In addition, he gives intuitive examples that are of great help for understanding new concepts. | 5 | 5 | 5 | 3 |
| 53. Eric took a topic that could be quite difficult and presented it in an interesting and understandable manner. Loved going to office hours to get extra help | Intriguing | Eric is very clearly dedicated to helping students succeed. When he says he wants everyone to do well. you can tell he genuinely means it. | 5 | 5 | 4 | 3 |
| 54. If the instructor could slow down the pace a little bit, that would be good for us. | Interesting. I really learn a lot about alogorithm in this course. And the instructor will expain the algorithm in different ways | Professor Autry is very nice, patient. Always willing to help us with any kind of problems | 4 | 5 | 4 | 3 |
| 55. | Really helpful | Great teacher and can teach quite well with patience | 5 | 5 | 5 | 3 |
| 56. | | | 5 | 5 | | |
| 57. OH helps a lot! Hope some details can also be contained in the slides, rather than just discussed in class. Sometimes it's hard to follow and take notes in classes. Homeworks are a bit difficult, but reasonable. Projects can be more challanging. | Well-designed. All the slides are really helpful for understanding and reviewing. The content aren't too difficult. | Eric does everything he can do to help us, including 8 hours of professor's OH. He is really nice and eager to help us. All the slides/homeworks/projects are well-designed and difficulties are reasonable. We learned a lot through his lectures. | 5 | 5 | 5 | 3 |
| 58. | Great. | Professor Autry can control the workload and course progress in a way that most of us can have enough time to understand what's going on and at the same time take enough practice and learn quite a bit of knowledge. What's more, his lectures are clear and easy to understand. He also has devoted a lot of his time in this course, holding OH until 9pm. and show up every time to help students. | 5 | 5 | 5 | 3 |

| Overall Appraisal of Course (Math 590, Fall 2019) | Adjective to Describe Course | Why Recommend For Award | Q1 - Quality of Course | Q2 - Quality Instructor | Q3 - How Much Learned | Q4 - Workload |
|--|---|--|------------------------------|-------------------------------|-----------------------------|------------------|
| 59. Very excellent introduction course! I sincerely want to express my gratitude for Eric's efforts!!! But to students like me who already have some backgrounds in this field, it's kind of easy. I am looking forward to a harder version in the future. | well-designed | The course is well designed and well taught. Besides, it's very obvious that Eric devoted a substantial amount of time in this semester to answering our questions and helping us learn this course better. | 5 | 5 | 4 | 3 |
| 60. maybe there can be more practical projects | worthy | logical lecture, scientific projects and assignments | 4 | 4 | 4 | 3 |
| 61. Small suggestion for Eric, when you ask "any questions so far", you may wait for maybe 20 seconds so that students have time to think about that. I used to come up with a question, but hadn't figured out how to express. And you just paused for 3 seconds and moved on. Besides, the last few homework and projects are too intensive for a "busy review week". | Useful. | You are really enthusiastic in teaching. I can feel that. | 4 | 4 | 4 | 3 |
| 62. | Helpful. Excellent. | Prof. Autry is really great! His lectures are very clear so that we can understand in classes. And he explains our questions patiently during office hours. | 5 | 5 | 5 | 3 |
| 63. Perfect | Strongly recommend | I really learn a lot from this class. | 5 | 5 | 5 | 3 |
| 64. Professor Autry is very nice and he always devote himself for his students' sake. We all love Prof. Autry!! | Very Helpful: This course will introduce many useful algorithm, and they are also common on Leetcode and job interview! | Eric is angel!!! He deserve this award!!! | 5 | 5 | 5 | 3 |
| 65. | | Always energetic and logic! Would definately recommend this course to others! | 5 | 5 | 5 | 3 |
| 66. nothing, it's good enough | useful, algorithms is useful | patient and nice. | 4 | 4 | 4 | 3 |
| 67. | | he is so nice and always helpful and great. | 5 | 5 | 5 | 3 |

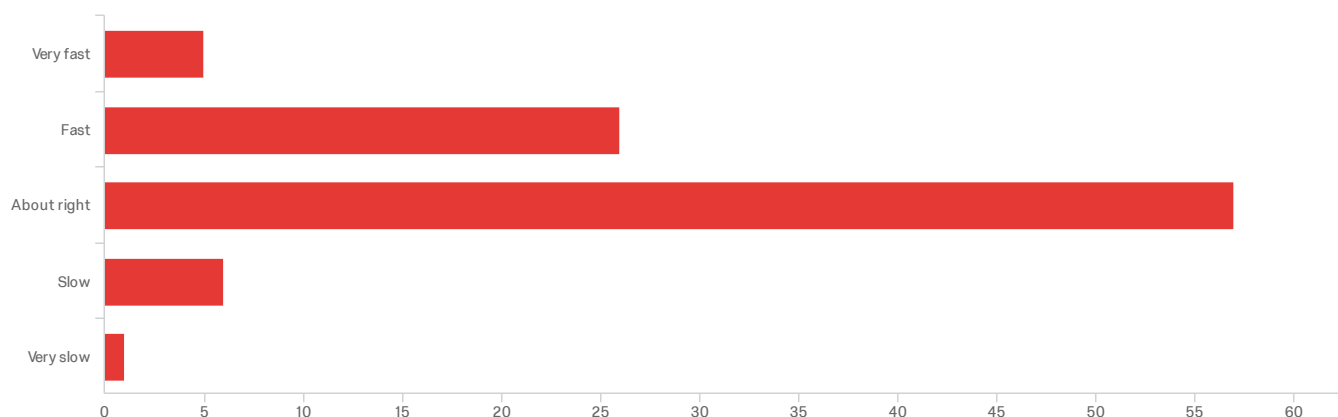
| Overall Appraisal of Course (Math 590, Fall 2019) | Adjective to Describe Course | Why Recommend For Award | Q1 - Quality of Course | Q2 - Quality Instructor | Q3 - How Much Learned | Q4 - Workload |
|---|---|--|--------------------------------------|---------------------------------------|-------------------------------------|--------------------------|
| 68. | I love this course!!!! So much fun learning algorithms. | The professor taught very clearly. He is the best professor i have ever had. So responsible to students, and very patient. | 5 | 5 | 5 | 5 |
| 69. | good lecture and practical algorithm | he is an excellent lecturer. | 5 | 5 | 5 | 4 |
| | | Averages (5 pt scale): | 4.72 Q1 - Quality of Course | 4.85 Q2 - Quality Instructor | 4.57 Q3 - How Much Learned | 3.37 Q4 - Workload |

Default Report

Midsemester survey for Topics in Algorithms 2019

November 12, 2019 12:18 PM MST

Q1 - What do you think of the pace of this course?

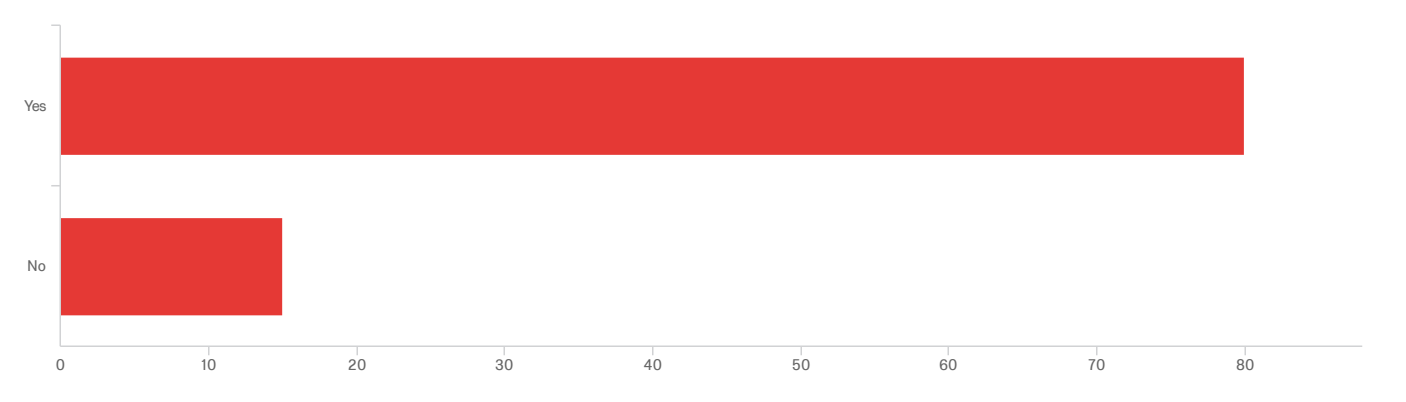


| # | Field | Minimum | Maximum | Mean | Std Deviation | Variance | Count |
|---|---|---------|---------|------|---------------|----------|-------|
| 1 | What do you think of the pace of this course? | 1.00 | 5.00 | 2.71 | 0.71 | 0.50 | 95 |

| # | Field | Choice Count |
|---|-------------|--------------|
| 1 | Very fast | 5.26% 5 |
| 2 | Fast | 27.37% 26 |
| 3 | About right | 60.00% 57 |
| 4 | Slow | 6.32% 6 |
| 5 | Very slow | 1.05% 1 |
| | | 95 |

Showing rows 1 - 6 of 6

Q2 - Have you attended office hours?



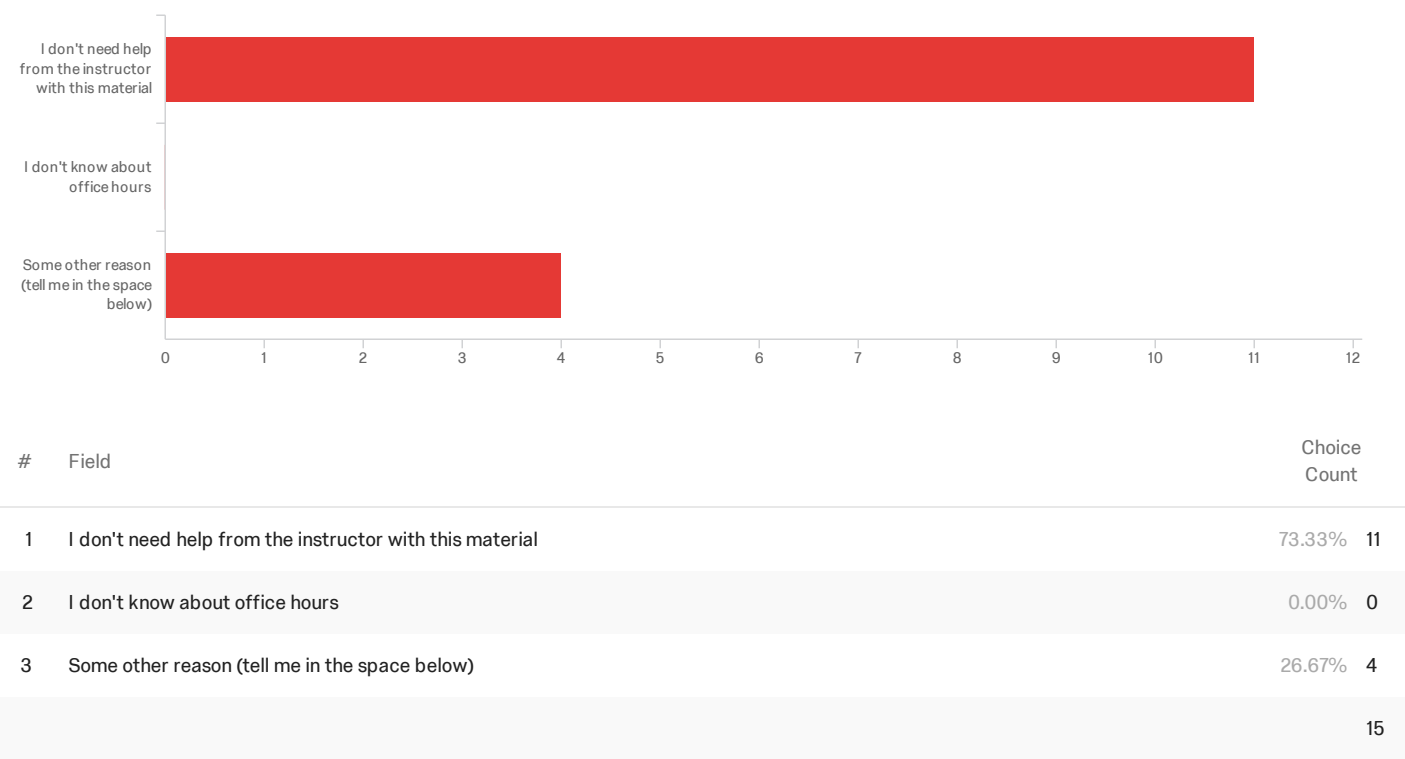
| # | Field | Minimum | Maximum | Mean | Std Deviation | Variance | Count |
|---|---------------------------------|---------|---------|------|---------------|----------|-------|
| 1 | Have you attended office hours? | 1.00 | 2.00 | 1.16 | 0.36 | 0.13 | 95 |

| # | Field | Choice Count |
|---|-------|--------------|
| 1 | Yes | 84.21% 80 |
| 2 | No | 15.79% 15 |

95

Showing rows 1 - 3 of 3

Q3 - Why have you not attended office hours?



Showing rows 1 - 4 of 4

Q3_3_TEXT - Some other reason (tell me in the space below)

Some other reason (tell me in the space below)

I tend to ask my friends who attend office hours

Get occupied by the works in the laboratory.

Some simple question can ask on piazza.

Q4 - Please comment on how helpful office hours were. For example, you might say "the instructor did not address my problem" or "the instructor answered my questions so I understood" or "there were too many people there for me to get help" or "I walked away more confused". Please provide feedback so that I can be more helpful during office hours.

Please comment on how helpful office hours were. For example, you might sa...

Dynamic Programming is a difficult topic to understand, maybe we can spend more time to discuss the deeper thoughts behind this, e.g., what kind of question can be solved by DP, some more examples such as backpack questions.

The instructor answered my questions so I understood

Helpful. 8 out of 10

Most helpful office hours out of all of my classes — really great no complaints. Options every day multiple times a day so never too crowded I can't get help and many opportunities to work around schedules

I understood the concept after OH

i walked away less confused

office hours are helpful. I appreciate the oh every day.

Usually helpful, sometimes Oh Are in Chinese which makes it hard to access for those of us that don't speak Chinese

the instructor answered my questions so I understood

The office hours are really helpful

I think TAs and Eric are all of great help

The instructor answered my questions so I understood

great

Most time my question will be answered, but sometimes there are so many people, especially OH of professor's

the instructor answered the question that help me to solve homework problems

Very helpful! Thank you guys so much for holding these really.

Please comment on how helpful office hours were. For example, you might sa...

really helpful

I attended most of the professor's office hour, and it's been really helpful for me not only to understand the assignment, but more with relating the assignment with the material course. TAs are also helpful as well.

very helpful cause TAs are really nice and helpful

Very helpful for me

Lecture style office hours before midterms were helpful

The instructor helped me understand some topic

TAs speak Chinese during OH (not one by one case)

the instructor answered my questions so I understood! They are really helpful.

there were usually too many people there

Super helpful. They make me feel like I always have some resources if I need some help.

the instructor answered my questons so i understood

My answers got answered and I have a better understanding over the whole topic.

the instructor answered my questions so I understood

Very helpful and very responsible

very helpful!

I only go to office hours occasionally. TAs can help me solve my problems.

TAs are helpful but I need to clarify at least twice to understand.

The instructor is very nice and patient, and lovely! Also, TAs help me solve some problems. Thank you all!

there were too many people there for me to get help

The instructor answered my questions so I understood

the instructor answered my questions so I understood

One of the TA was very disrespectful when I asked a doubt. They made it obvious that I shouldn't be having such a doubt when I felt the doubt was valid.

The TA is really great ans helpful

Please comment on how helpful office hours were. For example, you might sa...

The office hours are very helpful.

The instructor answered my questions so I understood

The instructors answered my questions so I understood and there are enough office hours that suit my schedule.

Office hours are pretty helpful and I get much clearer understanding to the problems.

Eric and TAs answered my question so I understood.

Instructor provided more clarity

TA and professor helped me to solve questions

Questions got answered. Great.

I would suggest instructor could spend some time to explain some common questions to everyone at the beginning of office hour.

The instructor answered my questions and I find it very useful

very effective

Quite helpful. Sometimes it is difficult to get help when there are a lot of other students.

the instructor answered my questions so I understood

Get much help from professor and TA YukunYang.

Helpful

Every time I came to the office hour, I could find lots of my incorrect thoughts. It was very helpful.

too many people

The instructor answered my question so I understood.

Office hour is very helpful

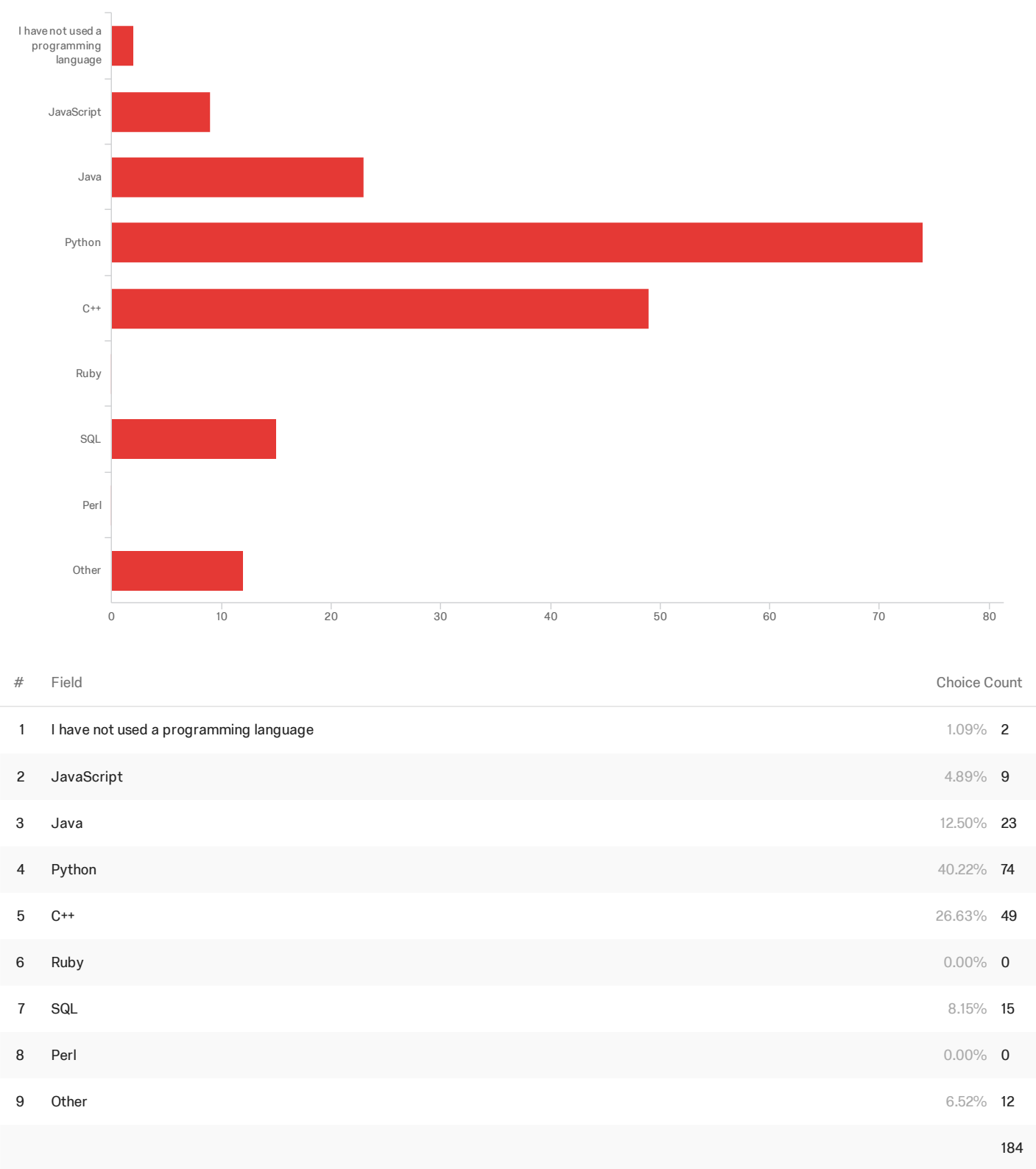
Office hours are very helpful and Prof. Autry is awesome

the instructor answered my questions so I understood

The instructor will clarify and explain the problems very clearly.

It is helpful and convenient. There are a lot of sections to choose.

Q5 - Which programming languages have you used to write a program? Your answer will help me plan the next section of the class.



Q5_9_TEXT - Other

Other

C

C

Matlab

just don't make next semester's students use Racket

Matlab

R

R

C

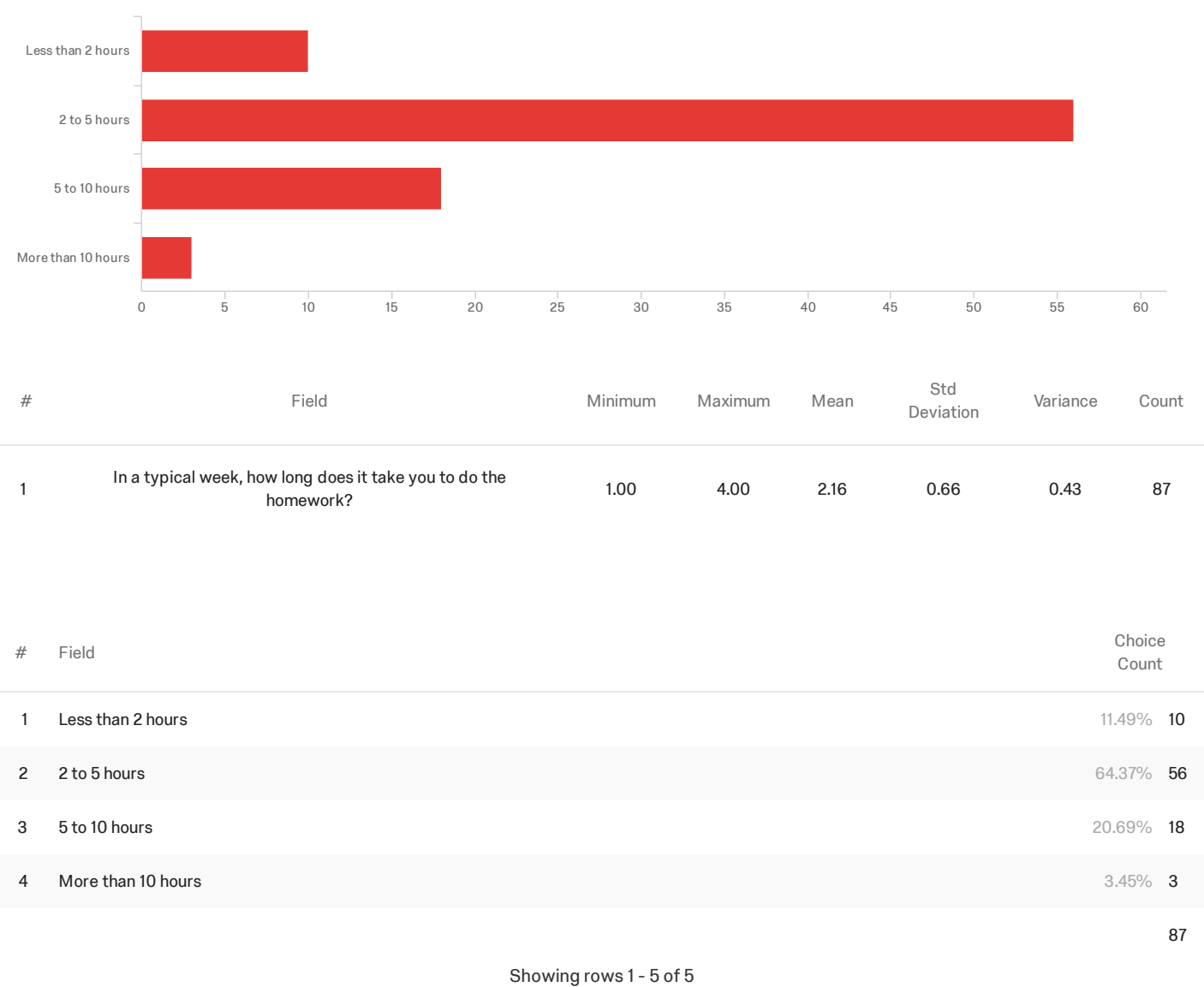
SAS, bash

C

C# C Processing Matlab

C

Q7 - In a typical week, how long does it take you to do the homework?



Q8 - In this course, what is a challenge for you? Please explain whatever you find challenging.

In this course, what is a challenge for you? Please explain whatever you fi...

understanding an algorithm that is kind of difficult to understand for students who have not learnt this before (not major in CS in undergraduate).

The distribution between first half and second half of the semester is not even.

None

Understand algorithms in dynamic programming

Homeworks are challenging

Proofs

Extrapolating concepts and using them myself

Writing proves in homework

when it comes to sorting, it is too challenging to keep the pace without given too much detail about the example

I did not have any algorithm background before (except a couple of machine learning ones), so it was not easy to get used to it. All the algorithms are confusing to me at first and it takes time to think about and understand them.

Understanding lecture notes

Writing full explanation

learn new algorithms quickly

midterm

The proof part of the material. How to make a clear description to illustrate a clear proof, and how to find the start point to start a proof question.

the proof of correctness & actual implementation with code

turing machine, Floyd-Warshall

Learning Python

programming

Use the algorithm we've learned in class to deal with different problems, hard to think from the start

In this course, what is a challenge for you? Please explain whatever you fi...

keep pace with the lecture and deal with the questions in time

I have no CS background so sometimes it's hard for me to understand data structure or some computer specifics.

i am confused with the data structure part, especially the operations on stack and queue

The homework has too many questions

Understanding the homework.

The problems and concepts themselves are challenging by nature, which are expected and good! In terms of other aspects, not challenging!

follow the lecture after the midterm

It's not very hard

All the edge cases of an algorithm. Calculate runtime fast in mind instead of deriving it on paper step by step.

Without previewing the slides, it is difficult to follow deduction during the lecture time.

Sometimes I found that using "math" methods to prove correctness of algorithms is a challenge for me.

It is about right

writing the project and the homework at the same time

During the class we only learn some basic knowledge about the algorithm, but not how to use it

I have trouble understanding the logic behind those algorithms immediately during class. I always need to spend extra time after class to get a better understanding of them.

The proof problem in homework.

It's hard to know the way to approach a problem when I first saw it.

Creating thorough proofs on homework

I'm not familiar with python and spent a lot of time learning how to create script and stuff like that.

I don't have foundation of computer science therefore it may take me longer to review and do the homework.

lack of example in slides

The algorithms aspect has been much more challenging than the first part, which was very slow.

Converting NFA to regular expressions is challenging

I can't follow the professor, because it is fast. And I can't finish my homework before deadline, since there is so much homework and project.

In this course, what is a challenge for you? Please explain whatever you fi...

Turing Machine Part

Putting intuition into plain English is sometimes difficult

Understand the algorithm, and convert algorithm to codes.

Math

I have to revise the notes after class to understand all the acknowledge, sometimes there's not enough time online

Not familiar to Python.

Implement the algorithms soon after learning about it.

too much content, no Time to review, time spent on those hard homework

Sometimes I can come up with the solution quickly, but it may have some small bugs(especially when time is limited).

I am not a ECE/CS major student, so sometimes I feel the course is too fast. But generally I can follow the instructor well.

Very challenging for me, since I haven't learn algorithm before. And I couldn't keep up with the pace of the courses

grab the essentials of the problem

proving things

I think it's slightly imbalanced, the materials before midterm are too easy compared with after midterm.

The lecture become harder and harder

It is sometimes difficult to solve proving questions.

Q13 - What aspect of the course have you liked the most?

What aspect of the course have you liked the most?

Eric is angel!!!

Office hours!

Algorithm is always interesting, like dp

more examples

Lectures are informative and office hours are helpful

Problem solving

you! (sorry! I am the person who wrongly filled 'you' in the next blank, i mean you are really shining the whole class, keep going!)

all of them

i've liked how the notes are very organized and help from the instructor is very accessible

teaching is clear. TAs are helpful.

Clarity of lectures

The contents is similar with the interview questions. It helps a lot.

Homework and projects really help.

Eric is so kind, patient and helpful

I especially like the projects. They definitely strengthened my understanding of the algorithms. I believe implementation is the best way to learn. Also, I do think Eric is a treasure for us :)

Homework helps learn the lecture notes

Eric! LOGICAL LECTURE! MAKING EVERYTHING CLEAR.

apply algorithms to codes

Eric explaining a lot on Piazza

The ideal and principle behind the algorithm.

the way eric show us how to improve the algorithm. instead of showing the optimal implementation, Eric starts with some problem and gives a time-consuming implementation, and then lead us thinking to the dp method

What aspect of the course have you liked the most?

Everything

How professors explains the concepts, in-class on-board example walkthrough

the difficulty of homework and exams is just right

The puzzle like nature of many of the homework sets

theoretical proof

Algorithm itself! It is very charming. I love to use smart ways to think of problems

Eric is .veryyyyyyyy responsible and kind

The explanation of most contents are very clear.

office hour which could always help me to catch up with others

The instructor's enthusiasm for getting students to have a fulling understanding of the course content.

Projects are interesting

Content and teaching strategy

Eric

Very organized lectures with detailed explanations and examples.

Everything

All kinds of algorithms

The materials covered are very useful.

draw pictures

The professor explained a lot about the idea behind an algorithm, like why we should do this in this algorithm, why this method doesn't work in this situation.

Excellent class presentation

get to know the algorithm more explicitly

The topic design is great

The course always provides opportunities for us to get credits so that we can pass the course.

The office hours! TAs are great and there're enough office hour that I can attend!

What aspect of the course have you liked the most?

Detailed examples for explaining algorithms.

Pictures and diagrams really help understanding.

in class examples

Content is interesting

The instructor is very nice and the atmosphere of learning is great.

The enough practice in the homework and I learned a lot from professor and TA

lecture

All of it! Up until the first test could have gone faster, but otherwise it has been great!

I love the projects in general. I really enjoy the path algorithms.

The things that professor talked on the class is interesting

Proofs and implementation

Eric's lecture is really invloving!

The theory of computation, and the application of algorithms.

Love this class, the material is great.

Examples in class and programming project

The professor

The project part.

Every time Eric gave an example of a new algorithm...

the class is interesing

Lecture.

I love project 1. I have a deeper understanding of the the algorithm through writing the report.

Review before the exam

Clear explanation of the algorithms under the hood, combination of practice and theory

lab

What aspect of the course have you liked the most?

I like the way Eric teaches in class, passionate and informative.

Use real word examples to address the algorithms

N/A

Q14 - What aspect of the course have you liked the least?

What aspect of the course have you liked the least?

the pace after the midterm exam.

turning machine

keep talking without working through an example

In the beginning the expectations on the homework weren't too clear

Proofs

N/A

you!

i wish it wasn't offered as late as it is

no

Lecture time is sometimes wasted as too many questions answered

I think the content before midterm can be compressed or introduced faster that we can learn more about real algorithms in the rest of the semester.

nothing, or maybe the marker sometimes?

It is hard to tell. Maybe more materials can be covered?

the Final date is too late

The first half semester's contents.

turning machine

Lcak of real life example

no, it is fun!

Nothing

Abit too much time spent on answering questions in class

I did the project in pairs, but I think single person is enough

Nothing comes to mind

What aspect of the course have you liked the least?

stack and queue

pair programming... I prefer to work on problems on my own to master it better

no

N/A

emmm i wish i could say something but everything seems perfect to me!

Grading

time maybe???? cant think of another one....

nope

Contents before Turing Machine

Not enough time to finish homework.

no

Nothing

dont understand why i lost point on homework

The pace is a little faster for me, especially after the midterm exam since i have never learned the data structure before

It's generally OK.

I think the pace of the class before the midterm is a little bit slow compared with the class after midterm.

Too much plain English explanations for the homework problems.

I don't really like that the homework taking up so much credits. I did homework on my own and I sometimes missed few points. Other ppl been exchanging answers so they get full score almost every time. After all my grade is probably gonna be bad cuz I didn't exchange answers with others.

During the lecture, professor tells us little about coding.

countable sets

The mid term is a little early haha

homework is hard

Many of the students are so poorly behaved, taking loudly as you talk. On the first test, several blatantly cheated, starting the test immediately. Even after a "don't do that" from the TA, they continued.

What aspect of the course have you liked the least?

We spent a disproportionate amount of time on Reg Ex in my opinion.

the project is too hard

Too many questions in class. They take up a lot of time of class.

Deciphering homework questions

No....

Proves

time: usually 11:30 is when I have lunch

None.

When examples were a bit confusing...

hard homework

I think they are all great.

Turing machine

Too few instance of knowledge point(eg: only one instance for Dijkstra)

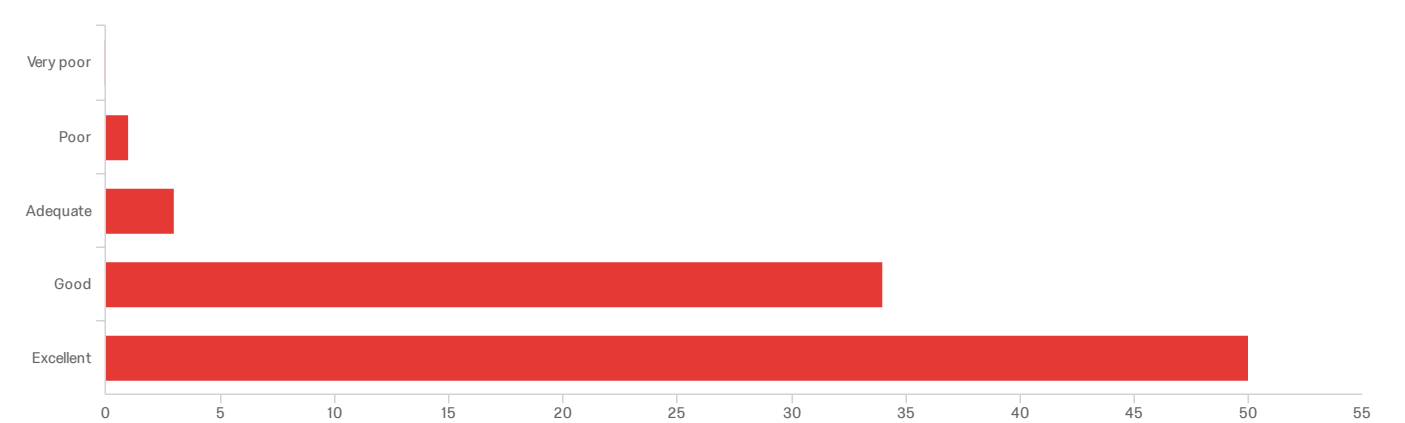
None

Currently I am enjoying this course.

some abstract things, which is boring

N/A

Q11 - Give an overall rating for the quality of this course.

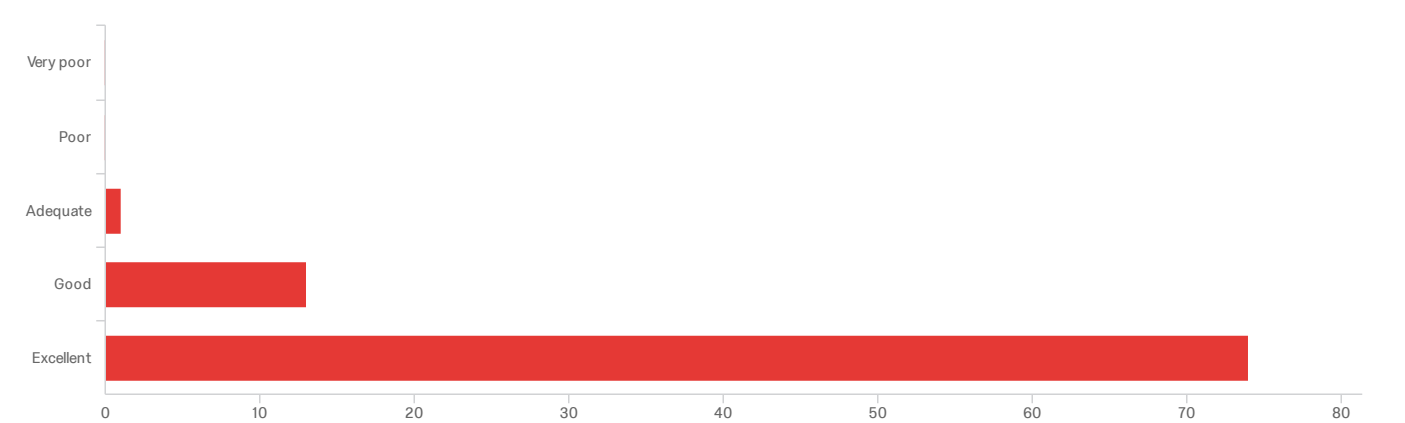


| # | Field | Minimum | Maximum | Mean | Std Deviation | Variance | Count |
|---|--|---------|---------|-------|---------------|----------|-------|
| 1 | Give an overall rating for the quality of this course. | 2.00 | 17.00 | 11.33 | 6.51 | 42.38 | 88 |

| # | Field | Choice Count |
|---|-----------|--------------|
| 1 | Very poor | 0.00% 0 |
| 2 | Poor | 1.14% 1 |
| 3 | Adequate | 3.41% 3 |
| 4 | Good | 38.64% 34 |
| 5 | Excellent | 56.82% 50 |
| | | 88 |

Showing rows 1 - 6 of 6

Q12 - Give an overall rating for quality of the instructor.



| # | Field | Minimum | Maximum | Mean | Std Deviation | Variance | Count |
|---|---|---------|---------|------|---------------|----------|-------|
| 1 | Give an overall rating for quality of the instructor. | 3.00 | 5.00 | 4.83 | 0.41 | 0.16 | 88 |

| # | Field | Choice Count |
|---|-----------|--------------|
| 1 | Very poor | 0.00% 0 |
| 2 | Poor | 0.00% 0 |
| 3 | Adequate | 1.14% 1 |
| 4 | Good | 14.77% 13 |
| 5 | Excellent | 84.09% 74 |
| | | 88 |

Showing rows 1 - 6 of 6

Q9 - What would you like to tell the instructor about the course?

What would you like to tell the instructor about the course?

We may can be slower when introduce a new difficult algorithm

Speed up before midterm, and slow down after midterm

We can add more materials to this course, like Ford-Fulkerson Algorithm.

Great course! Wish there was a part two!

The first few lectures can be put in one since it takes up a lot of hours yet we are not asked about them

you are the best(top 2) teacher i ever met

one can tell Dr. Autry really enjoys teaching. i'd say he's one of the best professors i've had between both grad and undergrad

I see a very serious attitude toward teaching from you, you really care about the students, I appreciate it.

Great course very nice instructor (Dr. Autry is absolutely fantastic). Only wish the other OHs were as accessible too

I wish there could be more practice about algorithms like the projects. But it will more like a programming class LOL

You are very helpful when I ask your questions

The course is quite amazing, so is Eric!

I do enjoy the course. Thank you!

It is an interesting course

have lots of office hour available so I can seek help for studying as any time I want

You are the best Eric!

I think the work flow and knowledge transition is great, I would better understand the material with the accumulation from previous course. And assignment also enhance and board the understanding of the material.

add some corner cases which greatly punish the algorithm?

The BEST professor in all my classes so far :)

Love you

Nothing major. It feels like a little more material could be fit in the course.

It's my favorite course in this semester

What would you like to tell the instructor about the course?

You are so supportive to us!! You are brilliant

Thanks a lot Eric

You're the best.

only one thing that makes me confused... i am not sure about the connection between the part we learned before midterm and the part after, they seem irrelevant to me

YOU ARE AN AWESOME INSTRUCTOR!

You may go faster in the contents before midterm and spend more time on the algorithm after midterm.

I think you can make it faster for the content before Turing Machine, and add more algorithms later.

You're really good at lecturing!

I think the course is great and very helpful since we are learning how to solve problems not just algorithms.

The first half of the course could progress faster

Slow the pace especially for the algorithm part

You're so good.

The pace of teaching lecture 14.15.16 is a little bit fast for me.

Glad I chose this course!

Hope the hws and projs can keep up with the pace of lecture, as now we always have the practice after 2 weeks of that lecture....

I don't really like that the homework taking up so much credits. I did homework on my own and I sometimes missed few points. Other ppl been exchanging answers so they get full score almost every time. After all my grade is probably gonna be bad cuz I didn't exchange answers with others.

You're doing a good job! You explain knowledge clearly with examples, it's better if you could keep pace faster, cuz when you explain some parts slowly, sometimes it's easy for me to lose concentration.

good course, learn a lot

I have had many great professors but have never seen a professor so dedicated to teaching and helping students in office hours. Thank you.

The materials are somewhat easy. We can go further deep into more algorithms if possible.

Very patient, passionate, impressive. The most responsible instructor I've met at Duke.

more examples please

Thanks

What would you like to tell the instructor about the course?

Please buy some more T-shirts.

Not sure if it's good to allow students to choose their preferred programming languages.

Please give us more examples, or it is a bit confusing. For example, we did not know "work/node" depends on $O(n^k)$ because every example is $O(n)$ in the chapter Divide & Conquer. We thought the total work was always $c \cdot s$ instead of $c \cdot (s^k)$.

the homework is so beyond the hard level of the class. concise and relatively easy homework is more practical, because in this way we can really get from the basic stuff to the high level. not just always the hardest question

This is a great course, thank you!

It is one of the best courses I have ever taken. Prof. Autry is responsible. Thank you so much!!!!

Could you please slow down the pace? Also provide us more examples to show us how an algorithm works

Great job, I hope to continuously learn more from Prof. Autry

I really like your way of teaching! it's very clear

Maybe we can cover more materials before midterm so that it won't be too intense after midterm.

Could you please talk with us more examples that we can use these algorithms in real world? That must be very interesting and help us understand more about how these algorithms work. Thanks!

End of Report

Spring 2019 course evaluation reports (instructor)

File created on: 9/29/2019 9:02:56 PM

Spring 2019

| | | MATH 290.01 (9580) | | | | | | | |
|-------------------------------------|--|-----------------------|------|---|---|---|---|---|-----|
| | | N | Mean | 1 | 2 | 3 | 4 | 5 | N/A |
| Overall rating | The course has clearly defined student learning objectives. | 8 | 4.25 | | 1 | 1 | 1 | 5 | |
| | The course had clear expectations for assignments and other work. | 8 | 4.38 | | 1 | | 2 | 5 | |
| | Overall the course was: | 8 | 4.63 | | | 1 | 1 | 6 | |
| | Overall, instructor 1 was: | 8 | 4.75 | | | | 2 | 6 | |
| | Overall, instructor 2 was: | 0 | | | | | | | 8 |
| | Overall, instructor 3 was: | 0 | | | | | | | 8 |
| Course dynamics | The course had a welcoming and inclusive classroom environment. | 8 | 4.50 | | | | 4 | 4 | |
| | Please characterize the difficulty of the subject matter: | 8 | 3.25 | | | 6 | 2 | | |
| | How much did you learn from this course? | 8 | 4.50 | | | 2 | | 6 | |
| Trinity College learning objectives | This course helped me gain factual knowledge. | 8 | 4.50 | | | | 4 | 4 | |
| | This course helped me understand fundamental concepts and principles. | 8 | 4.75 | | | | 2 | 6 | |
| | This course helped me learn to apply knowledge, concepts, principles, or theories to a specific situation. | 8 | 4.75 | | | | 2 | 6 | |
| | This course helped me learn to analyze ideas, arguments, and points of view. | 5 | 3.60 | | 1 | 2 | | 2 | 3 |
| | This course helped me learn to synthesize and integrate knowledge. | 5 | 4.60 | | | | 2 | 3 | 3 |
| | This course helped me learn to conduct inquiry through methods of the field. | 5 | 4.40 | | | 1 | 1 | 3 | 3 |
| | This course helped me learn to evaluate the merits of ideas and competing claims. | 5 | 3.80 | | 1 | 1 | 1 | 2 | 3 |
| | This course helped me to effectively communicate ideas orally. | 4 | 2.75 | | 1 | 1 | 1 | | 1 |
| | This course helped me to effectively communicate ideas in writing. | 5 | 3.60 | | 1 | | 3 | 1 | 3 |

| | | MATH 290.01 (9580) | | | | | | | |
|------------------------------|---|-----------------------|------|---|---|---|---|---|----|
| | | N | Mean | 2 | 3 | 5 | 8 | 9 | 10 |
| Student engagement in course | How many hours per week on average did you spend on this course (outside of class meetings)? | 8 | 3.75 | | 1 | 5 | 1 | 1 | |
| | About what percent of the class meetings (including discussions, labs, etc) did you attend in person? | 8 | 9.63 | | | | 3 | 5 | |

Choose course:

● MATH 290.01 (9580)

| | |
|--------------------------------------|------------------------|
| Subject and catalog | MATH 290.01 (9580) |
| Course title | SPECIAL TOPICS IN MATH |
| Combined enrollment (all crosslists) | 15 |
| N submissions | 8 |
| Return rate (as %) | 53.33333333 |
| Instructor 1 | Autry, Eric A |
| Instructor 2 | |
| Instructor 3 | |

The purpose of this report is to provide a quick summary of question means and response frequencies for an individual course. You may select one course at a time in the upper-right menu.

To release these data to students (i.e., opt-into the Trinity SACES system), complete this form: http://bit.ly/SACES_change

Click here to open the list of response codes for each question. <https://assessment.trinity.duke.edu/course-evaluation-codes-trinity-college>

To print to PDF, find the option to **Download**. Select **PDF**, then the options **Landscape** and **This Dashboard**, then download.

To access a comprehensive Users' Guide, click here: <https://assessment.trinity.duke.edu/tableau-user-guide>

Spring 2019

| Trinity College | Humanities |
|--------------------|------------|
| 4.19 | 4.28 |
| 4.16 | 4.25 |
| 4.01 | 4.26 |
| 4.26 | 4.47 |
| 4.12 | 4.35 |
| 4.04 | 3.91 |
| 4.30 | 4.26 |
| 4.35 | 4.35 |
| 4.28 | 4.28 |
| 4.03 | 4.14 |
| 4.18 | 4.24 |
| 4.01 | 3.97 |
| 3.98 | 4.07 |
| 3.80 | 4.22 |
| 3.99 | 4.34 |
| 4.34 | 4.52 |
| 3.30 | 3.12 |
| 3.98 | 4.11 |
| 4.14 | 3.87 |
| 9.04 | 9.38 |

First, choose course:

☐ MATH 290.01 (9580)

To compare means for the subject and division:

Choose division:

Humanities

Choose subject:

None

The report allows you to compare results from a single course against those of the College overall, the appropriate academic division, and the subject of the course. To release these data to students (i.e., opt-into the Trinity SACES system), complete this form: http://bit.ly/SACES_change

To view the response codes for each question: <https://assessment.trinity.duke.edu/course-evaluation-codes-trinity-college>

To print to PDF, find the option to *Download*. Select *PDF*, then the options *Landscape* and *This Dashboard*, then download.

To access a comprehensive Users' Guide: <https://assessment.trinity.duke.edu/tableau-user-guide>

None

| What would you like to say about this course to a student who is considering taking it in the future? | Avg. Overall the course was: | Avg. Overall, instructor 1 was: | Avg. The course has clearly defined student learning objectives. | Avg. Please characterize the difficulty of the subject matter: | Avg. How much did you learn from this course? |
|---|------------------------------|---------------------------------|--|--|---|
| Life will be much easier if you already know Python, but if you don't, you'll still be fine. | 5 | 5 | 5 | 3 | 5 |
| This is a great course for learning practical coding skills that go far deeper than CompSci 101 while not being overwhelming or overly technical in nature. Definitely for .. | 5 | 5 | 5 | 3 | 5 |

Choose course(s):

- ☒ *
☒ MATH 290.01 (9580)

The purpose of this report is to provide written comments from students (at left), aligned with each student's ratings on key course evaluation questions (at right). Written comments are not released to students.

Click [here](#) to open the list of response codes for each question.
<https://assessment.trinityduke.edu/course-evaluation-codes-trinity-college>

To print to Excel, click anywhere within one of the tables. In the upper right of the Tableau website, find the option to **Download**. Select **Crosstab**, then follow the instructions for opening your file in Excel.

To access a comprehensive Users' Guide:
<https://assessment.trinityduke.edu/tableau-user-guide>

None

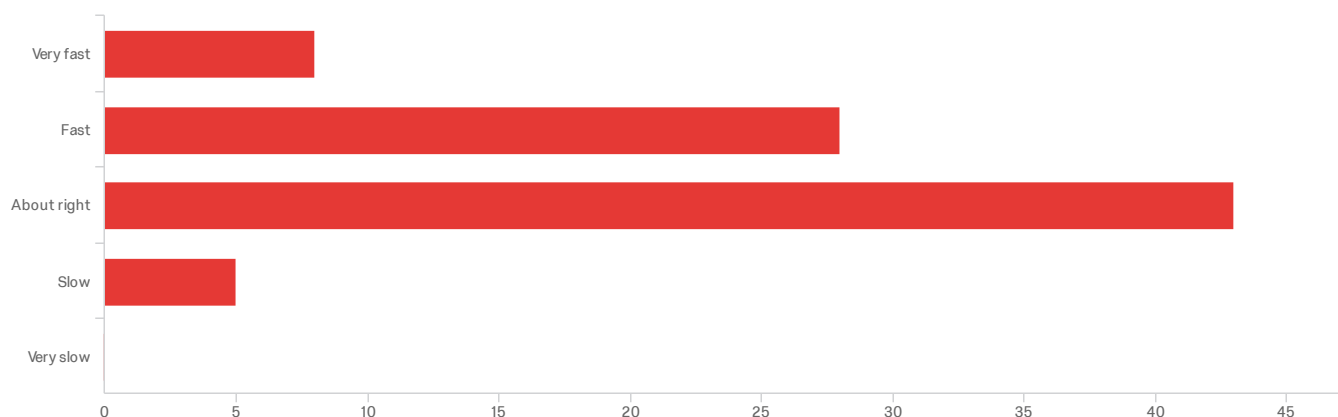
| Would you like to provide any other comments about this course? | Avg. Overall the course was: | Avg. Overall, instructor 1 was: | Avg. The course has clearly defined stud.. | Avg. Please characterize the difficulty of the subje.. | Avg. How much did you learn from this c.. |
|--|------------------------------|---------------------------------|--|--|---|
| Great course. As someone with no programming experience, I found the course to be quite accessible. Also, the professor did a truly great job. | 5 | 5 | 5 | 3 | 5 |
| I loved the idea and the general outline of the class. Lectures were engaging and I liked most of the topics we covered. I wished the assignments had been slightly mo.. | 4 | 4 | 2 | 3 | 3 |
| I understand that this was the first semester that the course was being taught, but it would be helpful for next time to have a clear syllabus at the beginning of the sem.. | 5 | 5 | 5 | 3 | 5 |
| Really appreciated having a small class size and being able to work directly with Professor Autry when questions arose while doing homework - he was very responsive o.. | 5 | 5 | 4 | 4 | 5 |

Default Report

Midsemester survey for Topics in Algorithms

September 17, 2019 1:04 PM MDT

Q1 - What do you think of the pace of this course?

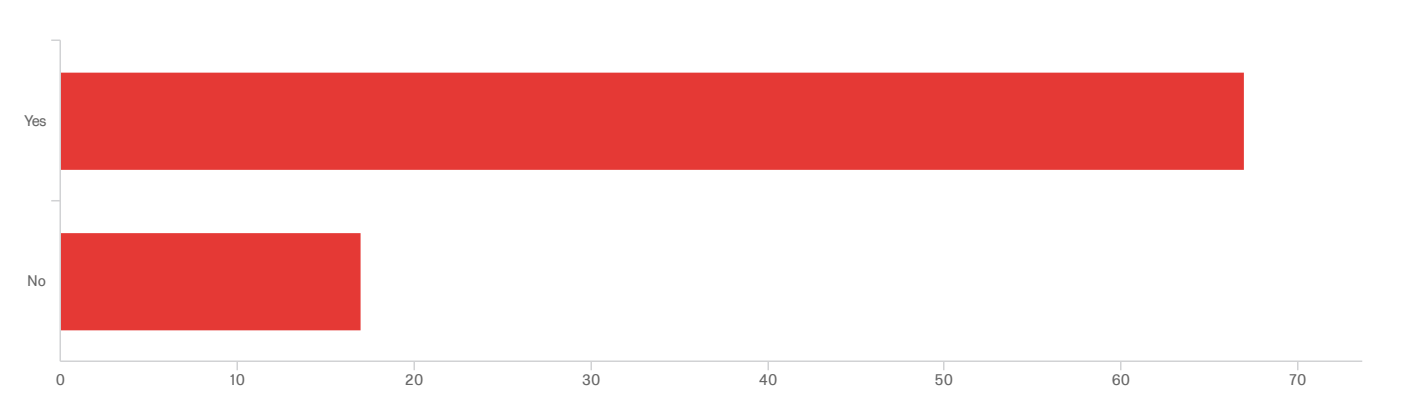


| # | Field | Minimum | Maximum | Mean | Std Deviation | Variance | Count |
|---|---|---------|---------|------|---------------|----------|-------|
| 1 | What do you think of the pace of this course? | 1.00 | 4.00 | 2.54 | 0.75 | 0.56 | 84 |

| # | Field | Choice Count |
|---|-------------|--------------|
| 1 | Very fast | 9.52% 8 |
| 2 | Fast | 33.33% 28 |
| 3 | About right | 51.19% 43 |
| 4 | Slow | 5.95% 5 |
| 5 | Very slow | 0.00% 0 |
| | | 84 |

Showing rows 1 - 6 of 6

Q2 - Have you attended office hours?



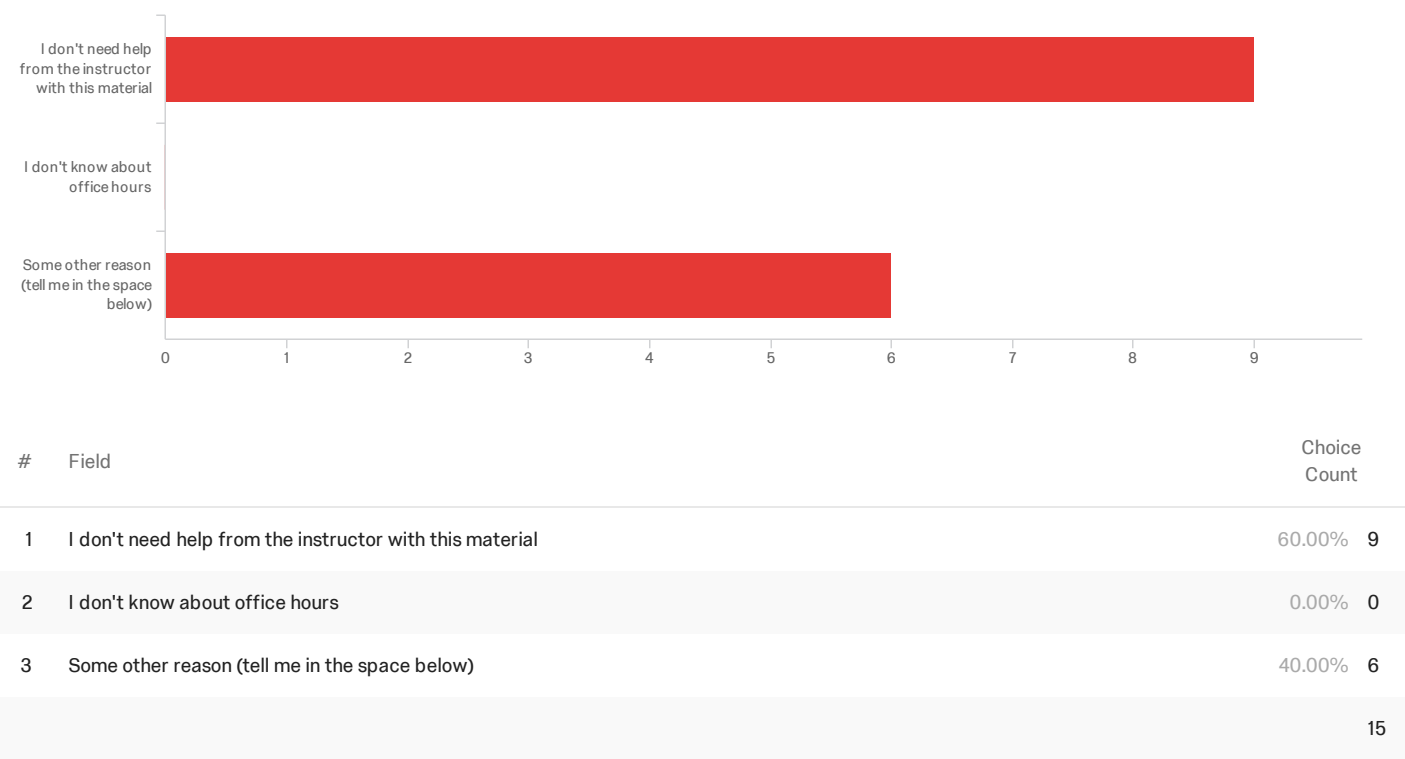
| # | Field | Minimum | Maximum | Mean | Std Deviation | Variance | Count |
|---|---------------------------------|---------|---------|------|---------------|----------|-------|
| 1 | Have you attended office hours? | 1.00 | 2.00 | 1.20 | 0.40 | 0.16 | 84 |

| # | Field | Choice Count |
|---|-------|--------------|
| 1 | Yes | 79.76% 67 |
| 2 | No | 20.24% 17 |

84

Showing rows 1 - 3 of 3

Q3 - Why have you not attended office hours?



Showing rows 1 - 4 of 4

Q3_3_TEXT - Some other reason (tell me in the space below)

Some other reason (tell me in the space below)

I prefer to study with my classmates and ask them

Office hour on Wednesday has conflict with my other class.

I was able to complete all HW by myself or by discussing with other classmates

I have discussed my questions with other students

sometimes lazy

Sometime I am just too busy to get time to attend the office hours. Before I understand the previous lecture, we may have moved to the next chapter.

Q4 - Please comment on how helpful office hours were. For example, you might say "the instructor did not address my problem" or "the instructor answered my questions so I understood" or "there were too many people there for me to get help" or "I walked away more confused". Please provide feedback so that I can be more helpful during office hours.

Please comment on how helpful office hours were. For example, you might sa...

"though I had to wait for several students, eventually the instructor answered my question satisfactorily"

Actually, I went office hour 1-2 times, each time for questions neither notes nor homework. However, I felt impolite to ask questions of not note-related because there are too many students waiting. As a whole, not quite useful.

Your office hour is a great supplement for course material. Sometimes I'm shy to ask questions on class so I'll ask you during OH.

I just go to office hour once and instructor answered my question clearly.

some instructors are helpful, sometimes there are too many people

there were too many people there for me to get help but I usually can find the answer from others' questions

It is quite useful

There are so many people in the professor's OH, but less people in TA'OH. And in most of the time, the TA is quite good to answer my question, so I feel the OH is very well.

maybe just avoid a student keep asking question forever

the instructor answered my questions so I understood

there were too many people

the instructor answered my questions so I understood

They were pretty good

The office hour is extremely helpful, but there is too many people waiting. Most people are asking about homework. It is hard to get questions outside of homework asked and answered.

the instructor answered my questions so I understood

Please comment on how helpful office hours were. For example, you might sa...

I think it's kind of you to go detailed into hws solutions in OH, but it sometimes can be very inefficient and time consuming. Some general ideas are good enough.

there were too many people there for me to get help

there were too many people there for me to get help

I went to the TA's office hour and I think it is very helpful

The instructor is very patient and helpful!

the instructor answered my questions so I understood

the instructor answered my questions so I understood

The instructor answered my question and I understood

I just went by with no questions in mind.

Office hours are extremely helpful & critical to fully understanding the course material. Especially, being able to listen to other students' questions is also helpful in solving some common confusions.

The instructor answered my questions so I understood

Very helpful in answering questions and providing concrete examples to explain topics

The office hours were very helpful. All of my problems are solved.

the instructor answered my questions so I understood, but the lines can be quite long.

Good

Very clear and helpful explanation. Instructor is patient. Thanks a lot!

help clarify concepts

It's inefficient. Many people go to OH and asked the same question. It's better to go through the homework once and then solve the individual question.

It's helpful, since I was confused about some question during the class but afraid to ask, and I can get the answer during office hour.

I've been to both the TAs' and the professor's office hours, and I found all of them helpful in answering my questions.

The instructor answered my questions and I understood, but sometimes there were too many people.

It is very helpful. The instructor answered my questions so I can successfully finish the homework & project.

The instructor addressed my problems

Please comment on how helpful office hours were. For example, you might sa...

the instructor answered my questions so I understood

address my problems

when we start algorithms, it is so complicated that I cannot catch up with my classmates

the instructor is patient to answer our problems

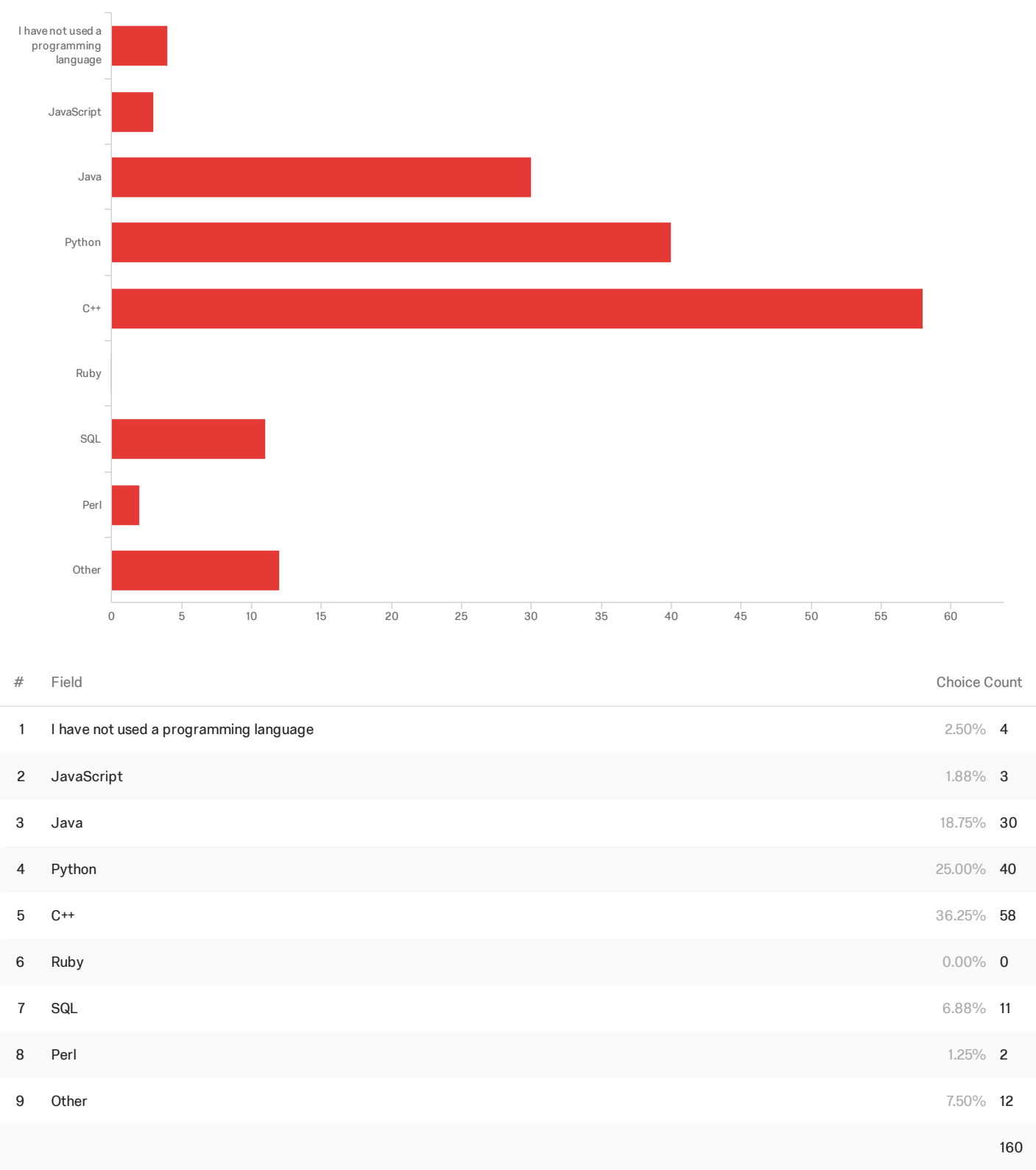
super helpful

too many people in the OF

Helpful enough

the instructor answered my questions so I understood

Q5 - Which programming languages have you used to write a program? Your answer will help me plan the next section of the class.



Q5_9_TEXT - Other

Other

Swift

C

C/C#

As far as project 1 is concerned, Python was very easy in understanding the implementation of algorithms, although I've never used Python before.

C, Haskell, Swift

C

Go, PHP

C

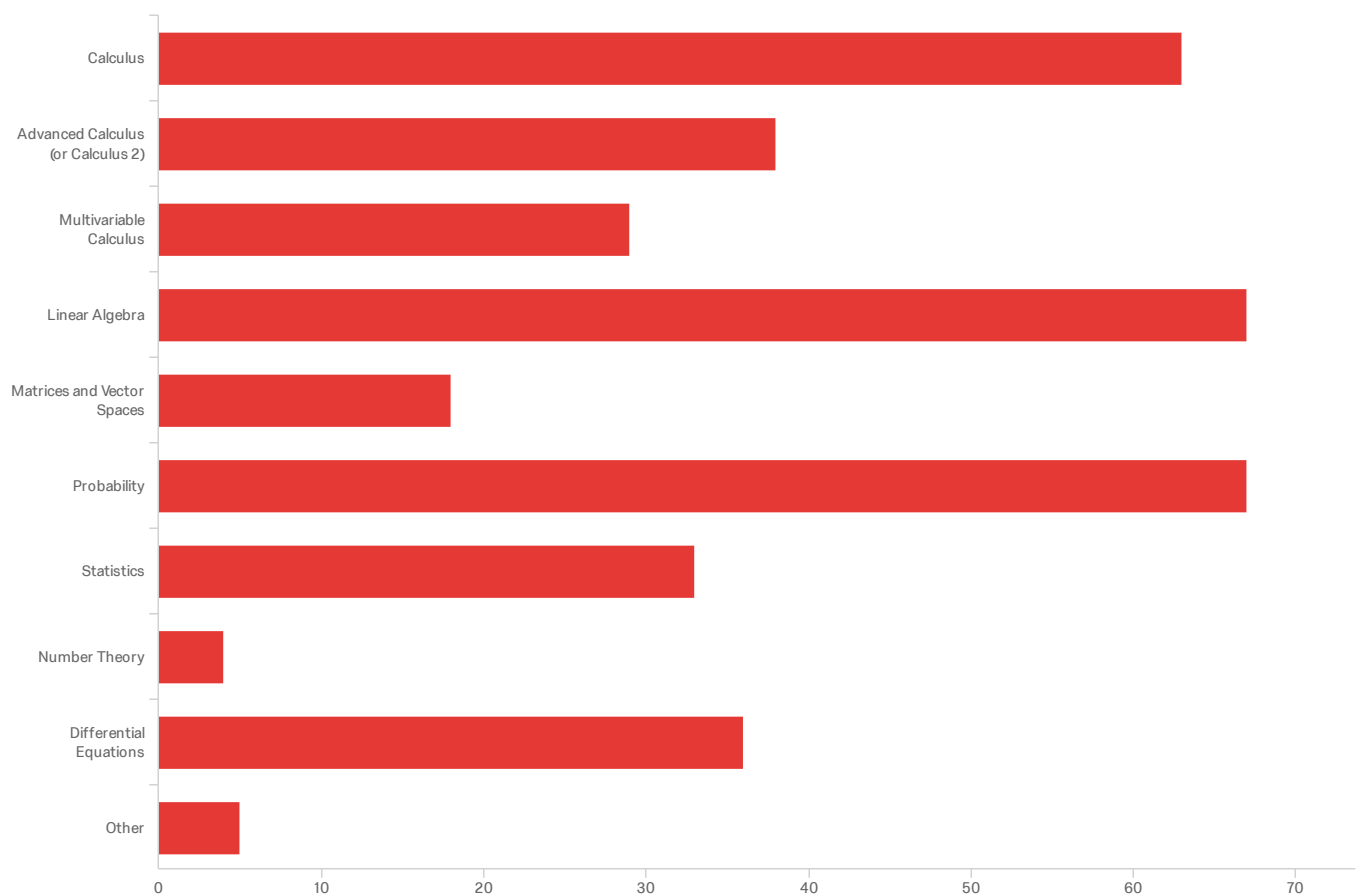
C

R

matlab

c

Q6 - What college-level math courses have you taken? Please check all that you've taken. Your answer will help me present the next topics in class.



| # | Field | Choice Count |
|----|-----------------------------------|--------------|
| 1 | Calculus | 17.50% 63 |
| 2 | Advanced Calculus (or Calculus 2) | 10.56% 38 |
| 3 | Multivariable Calculus | 8.06% 29 |
| 4 | Linear Algebra | 18.61% 67 |
| 5 | Matrices and Vector Spaces | 5.00% 18 |
| 6 | Probability | 18.61% 67 |
| 7 | Statistics | 9.17% 33 |
| 8 | Number Theory | 1.11% 4 |
| 9 | Differential Equations | 10.00% 36 |
| 10 | Other | 1.39% 5 |

| # | Field | Choice Count |
|---|-------|--------------|
|---|-------|--------------|

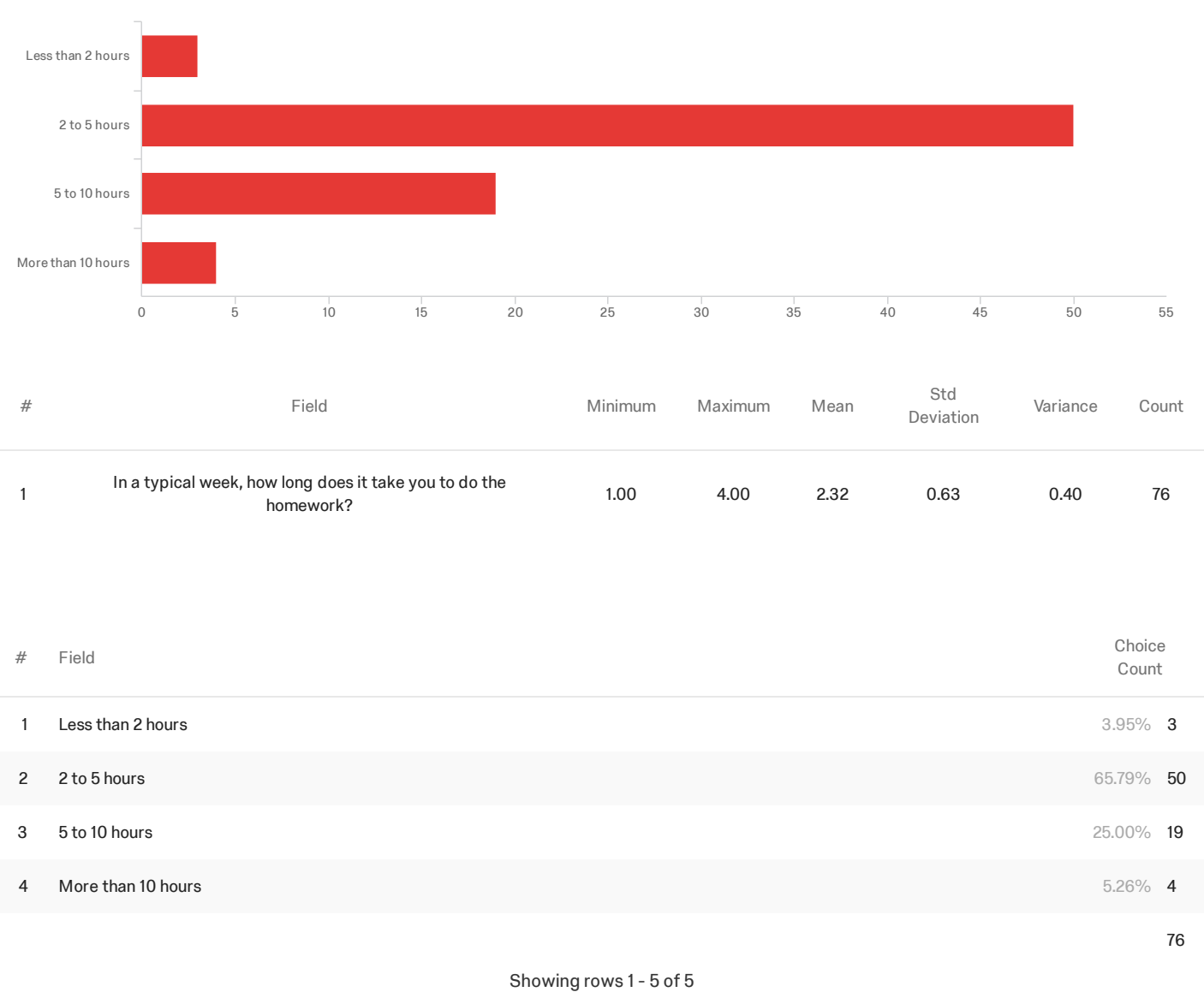
360

Showing rows 1 - 11 of 11

Other

| |
|---|
| Other |
| Abstract Algebra, Differential Geometry |
| complex variables functions |
| I may be a little rusty on some of the math topics like Calculus and Linear Algebra |
| Topology, Cryptography, Category Theory |
| Numerical Computing |

Q7 - In a typical week, how long does it take you to do the homework?



Q8 - In this course, what is a challenge for you? Possible answers may be:-There is too much work in the time I have- I don't understand the concepts the first time- This course is very similar to one I have already taken so it's very easy- I don't understand the instructor's lectures because of the language- I often don't understand the questions on the homework or exams Please explain whatever you find challenging.

In this course, what is a challenge for you? Possible answers may be:-There...

To much to reason and remember

Some problems require clever tricks to get to the solution

Countable sets

I hope office hour not only helps students finish their homework

I think Im not the type of person who can absort new knowledge real quick, so first-time-concept in class and homework are challenging to me

Don't have many coding assignments before midterm

I often don't understand the question on the homework

For recent cources, the content is more difficult and I can't understand all the stuff immediately in class. I need extra time after class to go through the slides carefully to help me understand

I often don't understand the questions on the homework or exams

a little to describe the algorithm in English precisely

I don't understand the concepts the first time

Some concepts are hard to understand at first glance

I often don't understand the questions on the homework or exams

I don't understand the concepts of finite machines the first time

not understand for the first time

I cannot understand the concepts during the class immediately. I need to spend a lot of time reviewing the notes.

In this course, what is a challenge for you? Possible answers may be:-There...

I dont understand because of language

The Homeworks are challenging and slightly different from the ones covered in class

I don't understand the concepts the first time

I don't understand the concepts the first time. Also, the homework questions are also slightly challenging.

I find it hard to understand contents ever since we reach use it or lose it, and I didn't find it in the book, which makes it harder for me to catch up.

There is too much work in the time I have

I often don't understand the questions on the homework or exams. I have to go to office hour to get help for homework

Because I did not learn the algorithm before and this is my first semester in US. I have a really hard time to get used to the totally new classes(including the language the concepts). After classes, I have to learn by myself to totally understand what the instructor is teaching in the classes

Sometimes I feel confused with the homework question even I've understood the lecture notes.

Part of the homework is hard, taking a lot of time to resolve.

There is too much work in the time I have for the second part, because the course is fast sometimes I can't follow in the later part(like DFS, BFS)

Some students in our class have learnt that before, so they may understand quickly. However, the class should help students with no such background more.

The project work takes too much time for me

no

some contents are very conceptual and need to go over multiple times to fully understand

I don't think the Turing Machine deserves so much time to cover.

With the support I get from Office Hours, most of my issues are resolved. So, I don't think I find anything particularly challenging.

NONE

Many concepts are brand new to me and takes time to really understand

This course is similar to one I have already taken so it's very easy

The transition between different topics

The lecture has been very informative.

- I don't understand the concepts the first time

In this course, what is a challenge for you? Possible answers may be:-There...

Theoretical prove

The pace is fast. I don't understand the concepts the first time. It takes time for me to understand.

I don't understand the concepts the first time

I often don't understand the questions on the homework or exams, I don't understand the concepts the first time

There is too much work in the time I have

Since I have never used python before, and do not have any knowledge of python, so it takes me a lot of time to learn python during a short period time to work on my project. So, if there any possibilities for you to give us some instructions about python.

I haven't found the class extremely challenging (not to say that it's easy, but I think that the class notes are really good and the homework difficulty is fair, so it's all been doable).

I was not able to get high score on the exam because of no enough time

When it comes to algorithms it is kind of difficult to fully understand everything for the first time

I read the questions slower because of the language. It affects my exam time management.

Sometimes I don't understand the homework

algorithms

the homework is hard

Need to review the slides. Homework sometimes hard to understand.

nothing

Some math problems are so difficult for us

Q9 - What would you like to tell the instructor about the course?

What would you like to tell the instructor about the course?

Maybe make the exams easier

Could you cut down the content of the first half of the term and introduce more about the data structure and algorithm at the first half of the semester

Eric is super nice

I think the way you are elaborating a rather abstract concept is great! Simple words to tell complex concept. But I think in addition to examples, maybe we can come up with some simple real code example? Cause I haven't programmed much sometimes I find it hard to implement

more coding!

a hard course but interesting

Overall this is a good course

It is a great course!

It's a really good course. Maybe can spare some time from stuffs before midterm to stuffs after midterm

I enjoyed taking this course, topics are pretty fun to learn

I like your course, although some times it is difficult, but very interesting

Pace before midterm is little too slow but after midterm goes little too fast

Maybe the first part(about turing machine) can be shortened, and this will save more time for important algorithms later.

Good course. I would say it's better if the course could focus more on algorithms' implementation rather than proofs of countability or finite machines

I hope the content before midterm can be less and the content for now should be set aside more time

Could you please slow down a little?

your Office hour is very helpful.

Thanks for all the help

having two exactly same version of exams for morning and afternoon session put some students into unfair advantages.

this class is very challenging for people who don't have background in computer science. And I feel not confident surrounded by peers who have taken the algorithms and data structures.

I like the instructor very much. To tell the truth, among the three classes which I take, this is the most enjoyable class. The professor could explain some abstract concepts using examples, which is pretty good. I hope in the future, the professor could give more examples.

What would you like to tell the instructor about the course?

Very good course! I feel a little bit worried if we can finish all the assignments and projects before the semester ends as schedule.

Very good, Eric!

You use the same midterm test paper for the class in the morning and afternoon. Some students got the test questions from the morning test and then had a high score in the later exam. This is unfair. Can you use two different test papers in the future tests?

The course is really helpful, maybe I am weak in some algorithm basics, I sometimes can't follow the pace in the later part.

all stuffs before mid term seems useless (No need to teach finite automation for 3 weeks...)

Homework description is sometimes confusing, and lecture slides always have typos

Thank you! Eric. Excellent Course.

Thank you for the clear explanations of all the basics that we need to know! This course has taught me how someone came up with the concept of the computer and has given me sufficient understanding of the automata theory that I could understand a recent talk on Discrete Supervisory Control Systems in Duke, armed with nothing but the knowledge from this class.

I think have easy homework and introduce more algorithms will be better

Really good class but a little bit fast after stepping in to algorithm

I think it is a great class. Keep moving!

Look forward to more challenges in terms of coding and algorithm

You have done things with full heart. Thanks

Can we have more coding practice instead of writing assignment

it's totally fine to me

Upload the slides early please!

It's way too fast to cover those algorithm in one course. And homework are too long to finish in a week, because we have to spend lots of time digesting the material from the course and then do the homework.

I find it not so difficult for me at the beginning of the semester, but I was confused about the project now.

I'm really enjoying this class so far! I think Professor Autry is going at a good pace and explains topics very clearly in lecture. He clearly cares a lot about student comprehension and I think the workload / expectations are reasonable.

The course is really interesting and the instructor's teaching is pretty good. My only concern is that the midterm exam was too early to be held and only a few topics are covered in that, which makes much pressure for the final exam.

Please slow down when it comes to algorithms

I would definitely recommend this course to the others

What would you like to tell the instructor about the course?

The course is fast when we start talking about data structure

could you please spend more time to give us more examples for algorithms?

you are so great

I like this class. your explanation is very clear. Thank you!


Good corse.Want to learn more details

good job


we are good at math, so not necessary to explain basic mathematical computations to us(like what is $2+2^2+\dots+2^n$) or what is $(1+2+3+4+\dots+n)$

The course is very good

Q9 - Topics



No results to show



No results to show

End of Report

Individual Report for for MATH_224-0_28: Integral Calc One-Variable (Eric Autry)

Course and Teacher Evaluations CTEC Summer 2017

Project Audience 7

Responses Received 2

Response Ratio 28.6%

Report Comments

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Creation Date Mon, Oct 09, 2017

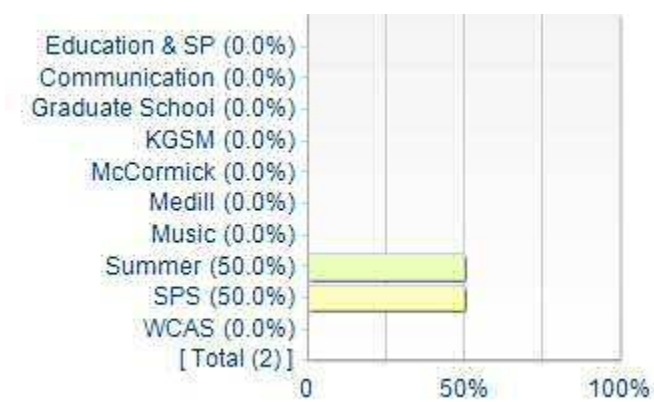
Northwestern University

Course Evaluations

| | |
|------------|---|
| Instructor | Course |
| Eric Autry | MATH_224-0_28: Integral Calc One-Variable |

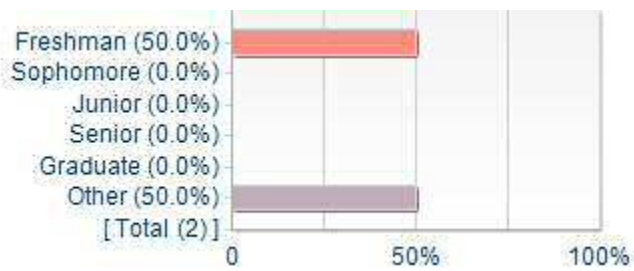
DEMOGRAPHICS

Your School



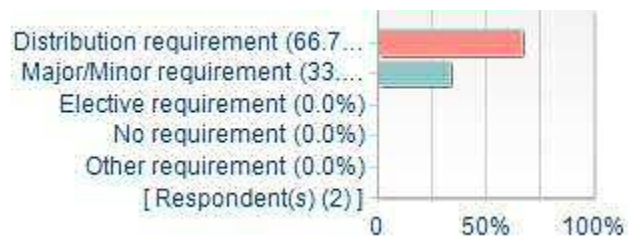
| Options | Count | Percentage |
|-----------------|-------|------------|
| Education & SP | 0 | 0.0% |
| Communication | 0 | 0.0% |
| Graduate School | 0 | 0.0% |
| KGSM | 0 | 0.0% |
| McCormick | 0 | 0.0% |
| Medill | 0 | 0.0% |
| Music | 0 | 0.0% |
| Summer | 1 | 50.0% |
| SPS | 1 | 50.0% |
| WCAS | 0 | 0.0% |

Your Class

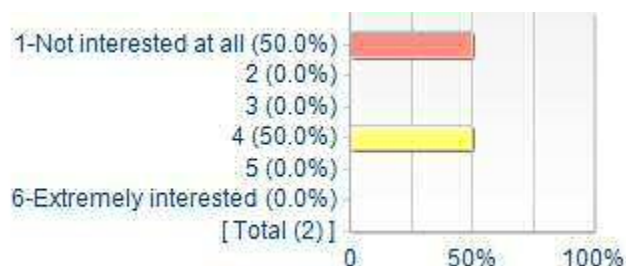


| Options | Count | Percentage |
|-----------|-------|------------|
| Freshman | 1 | 50.0% |
| Sophomore | 0 | 0.0% |
| Junior | 0 | 0.0% |
| Senior | 0 | 0.0% |
| Graduate | 0 | 0.0% |
| Other | 1 | 50.0% |

What is your reason for taking the course? (mark all that apply)



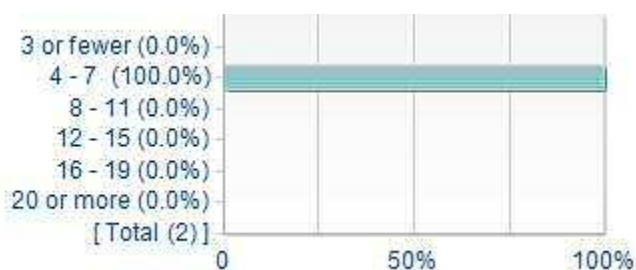
| Options | Count | Percentage |
|--------------------------|----------|------------|
| Distribution requirement | 2 | 66.7% |
| Major/Minor requirement | 1 | 33.3% |
| Elective requirement | 0 | 0.0% |
| No requirement | 0 | 0.0% |
| Other requirement | 0 | 0.0% |
| Respondent(s) | 2 | |

What was your Interest in this subject before taking the course?

| Options | Count | Percentage |
|-------------------------|-------|------------|
| 1-Not interested at all | 1 | 50.0% |
| 2 | 0 | 0.0% |
| 3 | 0 | 0.0% |
| 4 | 1 | 50.0% |
| 5 | 0 | 0.0% |
| 6-Extremely interested | 0 | 0.0% |

TIME-SURVEY QUESTION

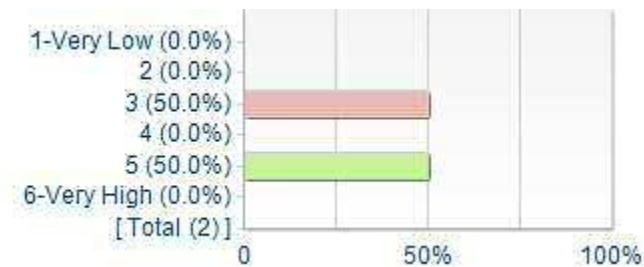
Estimate the average number of hours per week you spent on this course outside of class and lab time.



| Options | Count | Percentage |
|------------|-------|------------|
| 3 or fewer | 0 | 0.0% |
| 4 - 7 | 2 | 100.0% |
| 8 - 11 | 0 | 0.0% |
| 12 - 15 | 0 | 0.0% |
| 16 - 19 | 0 | 0.0% |
| 20 or more | 0 | 0.0% |

COURSE QUESTIONS

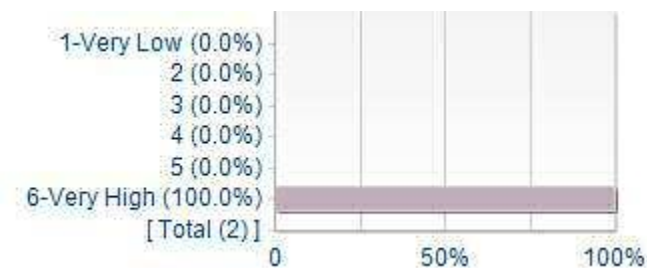
Provide an overall rating of the course.



| Options | Score | Count | Percentage |
|-------------|-------|-------|------------|
| 1-Very Low | 1 | 0 | 0.0% |
| 2 | 2 | 0 | 0.0% |
| 3 | 3 | 1 | 50.0% |
| 4 | 4 | 0 | 0.0% |
| 5 | 5 | 1 | 50.0% |
| 6-Very High | 6 | 0 | 0.0% |

| Statistics | Value |
|--------------------|-------|
| Response Count | 2 |
| Mean | 4.00 |
| Median | 4.00 |
| Standard Deviation | 1.41 |

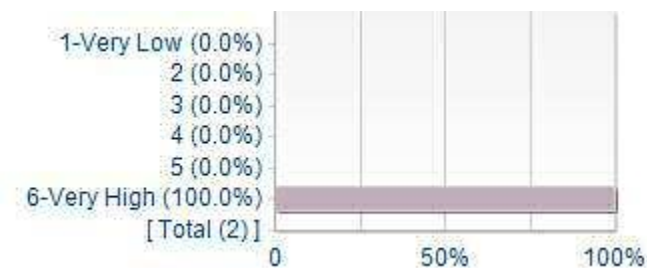
Estimate how much you learned in the course.



| Options | Score | Count | Percentage |
|-------------|-------|-------|------------|
| 1-Very Low | 1 | 0 | 0.0% |
| 2 | 2 | 0 | 0.0% |
| 3 | 3 | 0 | 0.0% |
| 4 | 4 | 0 | 0.0% |
| 5 | 5 | 0 | 0.0% |
| 6-Very High | 6 | 2 | 100.0% |

| Statistics | Value |
|--------------------|-------|
| Response Count | 2 |
| Mean | 6.00 |
| Median | 6.00 |
| Standard Deviation | 0.00 |

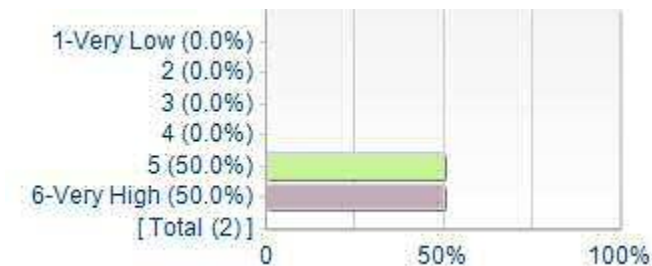
Rate the effectiveness of the course in challenging you intellectually.



| Options | Score | Count | Percentage |
|-------------|-------|-------|------------|
| 1-Very Low | 1 | 0 | 0.0% |
| 2 | 2 | 0 | 0.0% |
| 3 | 3 | 0 | 0.0% |
| 4 | 4 | 0 | 0.0% |
| 5 | 5 | 0 | 0.0% |
| 6-Very High | 6 | 2 | 100.0% |

| Statistics | Value |
|--------------------|-------|
| Response Count | 2 |
| Mean | 6.00 |
| Median | 6.00 |
| Standard Deviation | 0.00 |

Rate the instructional materials (texts, audiovisual materials, etc.) used in this course.

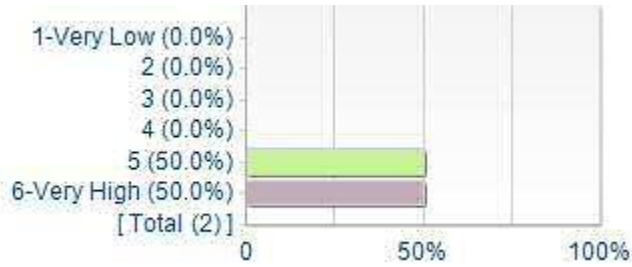


| Options | Score | Count | Percentage |
|-------------|-------|-------|------------|
| 1-Very Low | 1 | 0 | 0.0% |
| 2 | 2 | 0 | 0.0% |
| 3 | 3 | 0 | 0.0% |
| 4 | 4 | 0 | 0.0% |
| 5 | 5 | 1 | 50.0% |
| 6-Very High | 6 | 1 | 50.0% |

| Statistics | Value |
|--------------------|-------|
| Response Count | 2 |
| Mean | 5.50 |
| Median | 5.50 |
| Standard Deviation | 0.71 |

INSTRUCTOR QUESTIONS

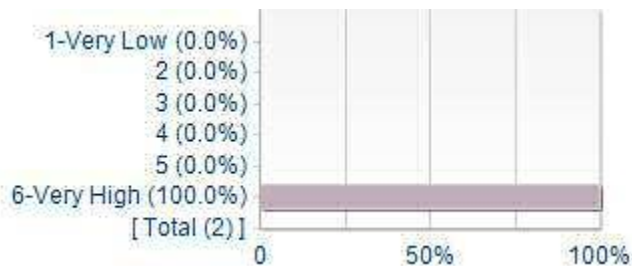
Provide an overall rating of the instruction.



| Options | Score | Count | Percentage |
|-------------|-------|-------|------------|
| 1-Very Low | 1 | 0 | 0.0% |
| 2 | 2 | 0 | 0.0% |
| 3 | 3 | 0 | 0.0% |
| 4 | 4 | 0 | 0.0% |
| 5 | 5 | 1 | 50.0% |
| 6-Very High | 6 | 1 | 50.0% |

| Statistics | Value |
|--------------------|-------|
| Response Count | 2 |
| Mean | 5.50 |
| Median | 5.50 |
| Standard Deviation | 0.71 |

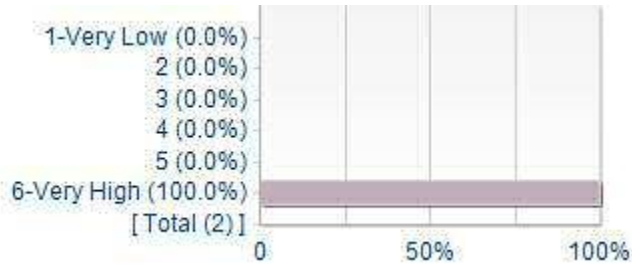
Rate the effectiveness of the instructor in stimulating your interest in the subject.



| Options | Score | Count | Percentage |
|-------------|-------|-------|------------|
| 1-Very Low | 1 | 0 | 0.0% |
| 2 | 2 | 0 | 0.0% |
| 3 | 3 | 0 | 0.0% |
| 4 | 4 | 0 | 0.0% |
| 5 | 5 | 0 | 0.0% |
| 6-Very High | 6 | 2 | 100.0% |

| Statistics | Value |
|--------------------|-------|
| Response Count | 2 |
| Mean | 6.00 |
| Median | 6.00 |
| Standard Deviation | 0.00 |

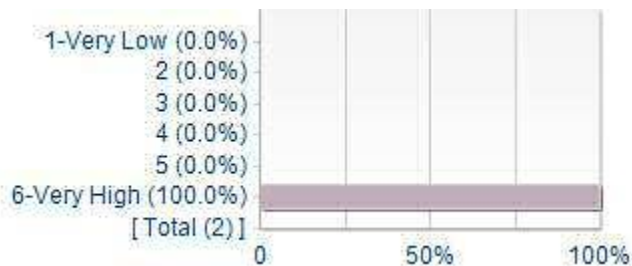
Rate how well prepared the instructor was for the class.



| Options | Score | Count | Percentage |
|-------------|-------|-------|------------|
| 1-Very Low | 1 | 0 | 0.0% |
| 2 | 2 | 0 | 0.0% |
| 3 | 3 | 0 | 0.0% |
| 4 | 4 | 0 | 0.0% |
| 5 | 5 | 0 | 0.0% |
| 6-Very High | 6 | 2 | 100.0% |

| Statistics | Value |
|--------------------|-------|
| Response Count | 2 |
| Mean | 6.00 |
| Median | 6.00 |
| Standard Deviation | 0.00 |

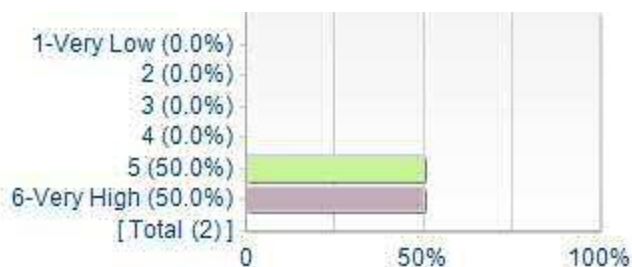
Rate the effectiveness with which the instructor communicated course content and ideas.



| Options | Score | Count | Percentage |
|-------------|-------|-------|------------|
| 1-Very Low | 1 | 0 | 0.0% |
| 2 | 2 | 0 | 0.0% |
| 3 | 3 | 0 | 0.0% |
| 4 | 4 | 0 | 0.0% |
| 5 | 5 | 0 | 0.0% |
| 6-Very High | 6 | 2 | 100.0% |

| Statistics | Value |
|--------------------|-------|
| Response Count | 2 |
| Mean | 6.00 |
| Median | 6.00 |
| Standard Deviation | 0.00 |

Rate the instructor's enthusiasm in teaching this class.



| Options | Score | Count | Percentage |
|-------------|-------|-------|------------|
| 1-Very Low | 1 | 0 | 0.0% |
| 2 | 2 | 0 | 0.0% |
| 3 | 3 | 0 | 0.0% |
| 4 | 4 | 0 | 0.0% |
| 5 | 5 | 1 | 50.0% |
| 6-Very High | 6 | 1 | 50.0% |

| Statistics | Value |
|--------------------|-------|
| Response Count | 2 |
| Mean | 5.50 |
| Median | 5.50 |
| Standard Deviation | 0.71 |

OPEN-ENDED QUESTIONS

Did the course help you learn? Why or why not?

Comments

Yes, the professor was very well versed in the material and able to explain it well.

Please summarize your reaction to this course focusing on the aspects that were most important to you.

Comments

The course did well to prepare me for further mathematical studies which was my top priority. It think it should meet three to four times a week with a discussion though.

What are the primary teaching strengths of the instructor?

Comments

He explains concepts clearly. He focused on relevant examples and was very easy to talk to. I think his biggest strength is understanding what a student is trying to ask, as this impressed me.

What are the primary weaknesses, if any, of the instruction?

Comments

At times he didn't go into enough depth about concepts, or maybe didn't emphasize that we needed something more.

Can you offer suggestions for improvement?

Comments

Maybe handout worksheets with worked out examples or some examples for the class to do that will prepare them for tests.

Individual Report for Eric Autry (MATH_234-0_28: Mult Integration & Vector Calc)

Course and Teacher Evaluations CTEC Summer 2016

Project Audience 14

Responses Received 6

Response Ratio 42.9%

Report Comments

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Creation Date Tue, Dec 06, 2016

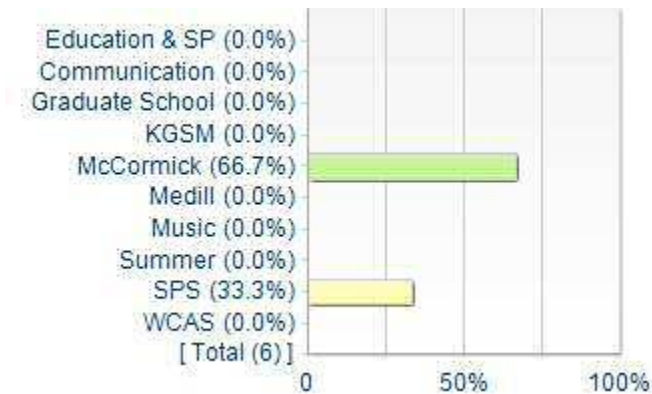
Northwestern University

Course Evaluations

| | |
|------------|---|
| Instructor | Course |
| Eric Autry | MATH_234-0_28: Mult Integration & Vector Calc |

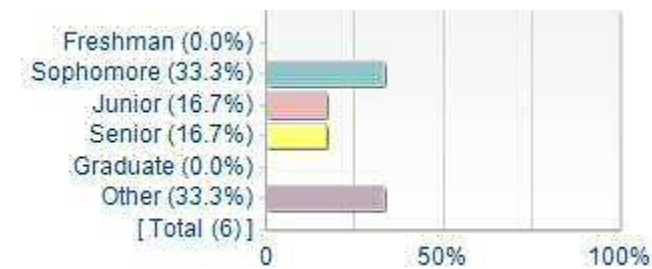
DEMOGRAPHICS

Your School



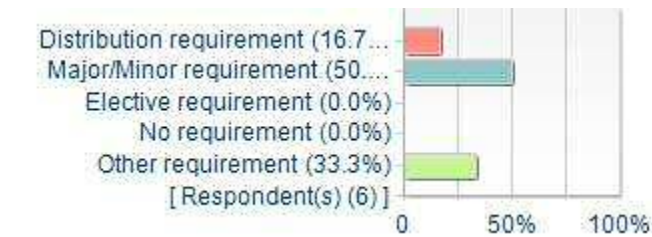
| Options | Count | Percentage |
|-----------------|-------|------------|
| Education & SP | 0 | 0.0% |
| Communication | 0 | 0.0% |
| Graduate School | 0 | 0.0% |
| KGSM | 0 | 0.0% |
| McCormick | 4 | 66.7% |
| Medill | 0 | 0.0% |
| Music | 0 | 0.0% |
| Summer | 0 | 0.0% |
| SPS | 2 | 33.3% |
| WCAS | 0 | 0.0% |

Your Class



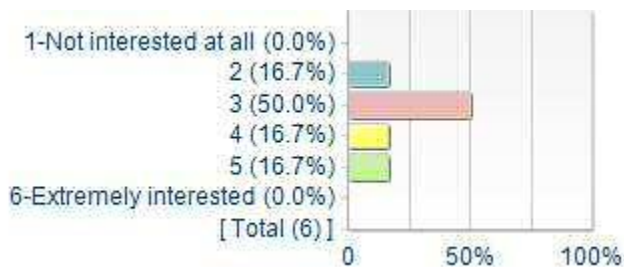
| Options | Count | Percentage |
|-----------|-------|------------|
| Freshman | 0 | 0.0% |
| Sophomore | 2 | 33.3% |
| Junior | 1 | 16.7% |
| Senior | 1 | 16.7% |
| Graduate | 0 | 0.0% |
| Other | 2 | 33.3% |

What is your reason for taking the course? (mark all that apply)



| Options | Count | Percentage |
|--------------------------|----------|------------|
| Distribution requirement | 1 | 16.7% |
| Major/Minor requirement | 3 | 50.0% |
| Elective requirement | 0 | 0.0% |
| No requirement | 0 | 0.0% |
| Other requirement | 2 | 33.3% |
| Respondent(s) | 6 | |

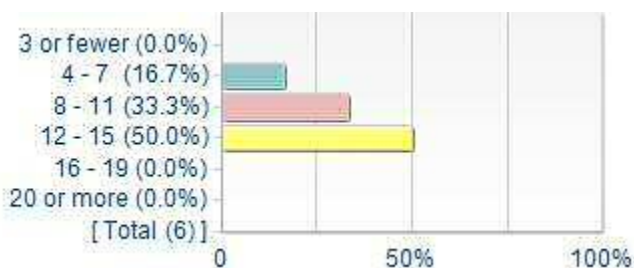
What was your Interest in this subject before taking the course?



| Options | Count | Percentage |
|-------------------------|-------|------------|
| 1-Not interested at all | 0 | 0.0% |
| 2 | 1 | 16.7% |
| 3 | 3 | 50.0% |
| 4 | 1 | 16.7% |
| 5 | 1 | 16.7% |
| 6-Extremely interested | 0 | 0.0% |

TIME-SURVEY QUESTION

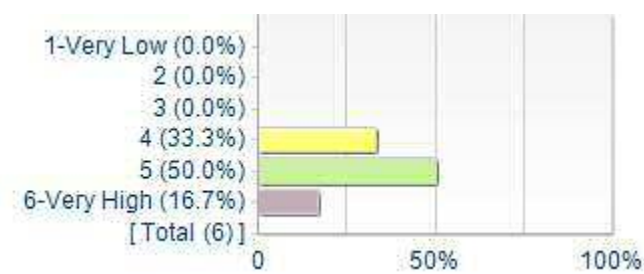
Estimate the average number of hours per week you spent on this course outside of class and lab time.



| Options | Count | Percentage |
|------------|-------|------------|
| 3 or fewer | 0 | 0.0% |
| 4 - 7 | 1 | 16.7% |
| 8 - 11 | 2 | 33.3% |
| 12 - 15 | 3 | 50.0% |
| 16 - 19 | 0 | 0.0% |
| 20 or more | 0 | 0.0% |

COURSE QUESTIONS

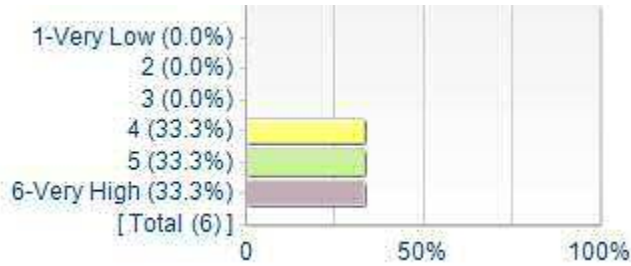
Provide an overall rating of the course.



| Options | Score | Count | Percentage |
|-------------|-------|-------|------------|
| 1-Very Low | 1 | 0 | 0.0% |
| 2 | 2 | 0 | 0.0% |
| 3 | 3 | 0 | 0.0% |
| 4 | 4 | 2 | 33.3% |
| 5 | 5 | 3 | 50.0% |
| 6-Very High | 6 | 1 | 16.7% |

| Statistics | Value |
|--------------------|-------|
| Response Count | 6 |
| Mean | 4.83 |
| Median | 5.00 |
| Standard Deviation | 0.75 |

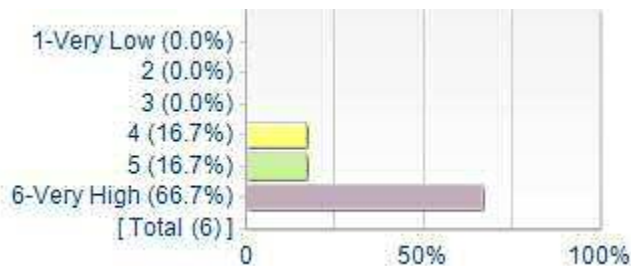
Estimate how much you learned in the course.



| Options | Score | Count | Percentage |
|-------------|-------|-------|------------|
| 1-Very Low | 1 | 0 | 0.0% |
| 2 | 2 | 0 | 0.0% |
| 3 | 3 | 0 | 0.0% |
| 4 | 4 | 2 | 33.3% |
| 5 | 5 | 2 | 33.3% |
| 6-Very High | 6 | 2 | 33.3% |

| Statistics | Value |
|--------------------|-------|
| Response Count | 6 |
| Mean | 5.00 |
| Median | 5.00 |
| Standard Deviation | 0.89 |

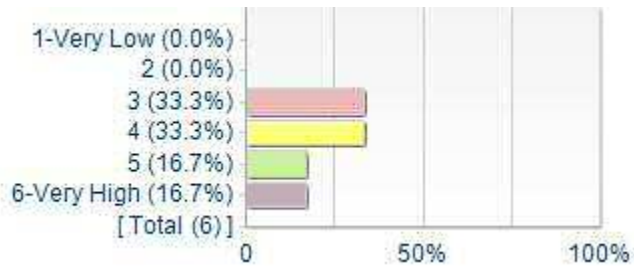
Rate the effectiveness of the course in challenging you intellectually.



| Options | Score | Count | Percentage |
|-------------|-------|-------|------------|
| 1-Very Low | 1 | 0 | 0.0% |
| 2 | 2 | 0 | 0.0% |
| 3 | 3 | 0 | 0.0% |
| 4 | 4 | 1 | 16.7% |
| 5 | 5 | 1 | 16.7% |
| 6-Very High | 6 | 4 | 66.7% |

| Statistics | Value |
|--------------------|-------|
| Response Count | 6 |
| Mean | 5.50 |
| Median | 6.00 |
| Standard Deviation | 0.84 |

Rate the instructional materials (texts, audiovisual materials, etc.) used in this course.

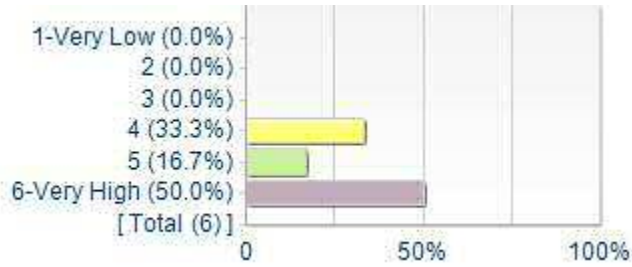


| Options | Score | Count | Percentage |
|-------------|-------|-------|------------|
| 1-Very Low | 1 | 0 | 0.0% |
| 2 | 2 | 0 | 0.0% |
| 3 | 3 | 2 | 33.3% |
| 4 | 4 | 2 | 33.3% |
| 5 | 5 | 1 | 16.7% |
| 6-Very High | 6 | 1 | 16.7% |

| Statistics | Value |
|--------------------|-------|
| Response Count | 6 |
| Mean | 4.17 |
| Median | 4.00 |
| Standard Deviation | 1.17 |

INSTRUCTOR QUESTIONS

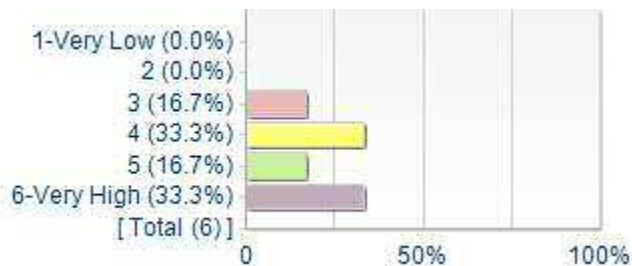
Provide an overall rating of the instruction.



| Options | Score | Count | Percentage |
|-------------|-------|-------|------------|
| 1-Very Low | 1 | 0 | 0.0% |
| 2 | 2 | 0 | 0.0% |
| 3 | 3 | 0 | 0.0% |
| 4 | 4 | 2 | 33.3% |
| 5 | 5 | 1 | 16.7% |
| 6-Very High | 6 | 3 | 50.0% |

| Statistics | Value |
|--------------------|-------|
| Response Count | 6 |
| Mean | 5.17 |
| Median | 5.50 |
| Standard Deviation | 0.98 |

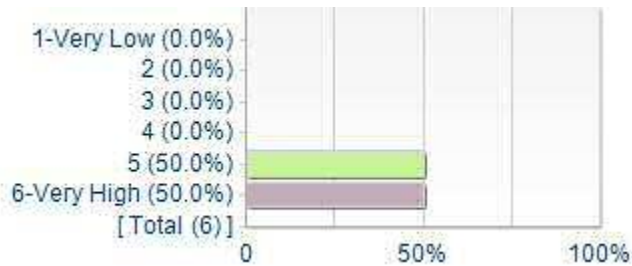
Rate the effectiveness of the instructor in stimulating your interest in the subject.



| Options | Score | Count | Percentage |
|-------------|-------|-------|------------|
| 1-Very Low | 1 | 0 | 0.0% |
| 2 | 2 | 0 | 0.0% |
| 3 | 3 | 1 | 16.7% |
| 4 | 4 | 2 | 33.3% |
| 5 | 5 | 1 | 16.7% |
| 6-Very High | 6 | 2 | 33.3% |

| Statistics | Value |
|--------------------|-------|
| Response Count | 6 |
| Mean | 4.67 |
| Median | 4.50 |
| Standard Deviation | 1.21 |

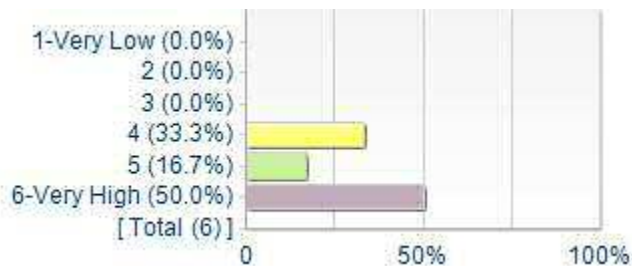
Rate how well prepared the instructor was for the class.



| Options | Score | Count | Percentage |
|-------------|-------|-------|------------|
| 1-Very Low | 1 | 0 | 0.0% |
| 2 | 2 | 0 | 0.0% |
| 3 | 3 | 0 | 0.0% |
| 4 | 4 | 0 | 0.0% |
| 5 | 5 | 3 | 50.0% |
| 6-Very High | 6 | 3 | 50.0% |

| Statistics | Value |
|--------------------|-------|
| Response Count | 6 |
| Mean | 5.50 |
| Median | 5.50 |
| Standard Deviation | 0.55 |

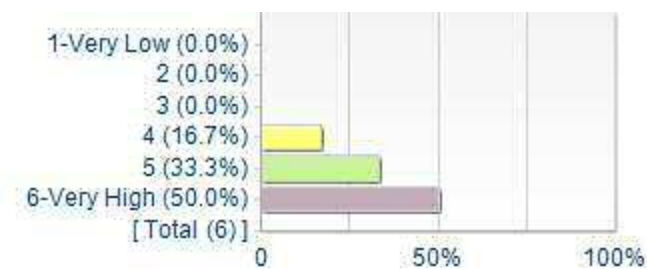
Rate the effectiveness with which the instructor communicated course content and ideas.



| Options | Score | Count | Percentage |
|-------------|-------|-------|------------|
| 1-Very Low | 1 | 0 | 0.0% |
| 2 | 2 | 0 | 0.0% |
| 3 | 3 | 0 | 0.0% |
| 4 | 4 | 2 | 33.3% |
| 5 | 5 | 1 | 16.7% |
| 6-Very High | 6 | 3 | 50.0% |

| Statistics | Value |
|--------------------|-------|
| Response Count | 6 |
| Mean | 5.17 |
| Median | 5.50 |
| Standard Deviation | 0.98 |

Rate the instructor's enthusiasm in teaching this class.



| Options | Score | Count | Percentage |
|-------------|-------|-------|------------|
| 1-Very Low | 1 | 0 | 0.0% |
| 2 | 2 | 0 | 0.0% |
| 3 | 3 | 0 | 0.0% |
| 4 | 4 | 1 | 16.7% |
| 5 | 5 | 2 | 33.3% |
| 6-Very High | 6 | 3 | 50.0% |

| Statistics | Value |
|--------------------|-------|
| Response Count | 6 |
| Mean | 5.33 |
| Median | 5.50 |
| Standard Deviation | 0.82 |

OPEN-ENDED QUESTIONS

Did the course help you learn? Why or why not?

| Comments |
|---|
| This course did help me learn. The in-class practice was very helpful and was a great supplement to the homework. Working in class helped us learn from one another and get a better understanding of the material. |
| Learned a lot about multivariable integral calculus in it's 'theoretical' form but not it's practical form for the most part |
| Yes this course will be vital to my major. |
| Yes, this was a very challenging course that I had very fundamental knowledge of before taking the class. This class helped me learn the more advanced techniques of calculus |
| Yes |

Please summarize your reaction to this course focusing on the aspects that were most important to you.

Comments

This course was really good. It was much easier to manage in the summer. Professor Autry is really great. He breaks down the material really well and holds extra office hours to give individual help. This course turned out to be more enjoyable than I anticipated, but if you take it be prepared to work.

If you put in the time to do the homework and the extra practice problems assigned before the tests. Most test problems were pulled directly from this bank or closely resembled them. The course load was very manageable even with two other summer classes and work - would recommend it over 'normal' class during the school year. Eric was very accessible and hosted a lot of office hours, especially before the midterm and final, and was accommodating of difficulties we had with the homework so much so that he would extend the deadlines on a couple occasions and explain the problems in greater detail during class.

This course will help me in future classes that I will take, so it will definitely help me in the future.

This was a very hard class that required a good amount of outside work and studying. The instructor was the best math teacher I've had so far. He does an excellent job of explaining complex concepts in simple terms and made them much easier to apply to problems

What are the primary teaching strengths of the instructor?

Comments

Great professor.

He was great at breaking down the material and teaching it in a way that is easy to understand. He was also really great about holding office hours and really connecting with the students and teaching on a personal level.

Always made himself available for answering questions and often hosted office hours beyond his regular weekly ones, especially around tests. Most of the instruction was very clear, however some of the material in the vector calculus section was difficult to understand conceptually, such as the divergence theorem and Stokes' theorem, and it would have been good to go into those with a little more detail, possibly with diagrams or the like.

I could tell that my instructor really wanted us to know the material and to be able to apply it to the real world. I really appreciated this.

He was very good at teaching complex problems in a simple and easy to understand way

He knows the course material well, cares about the students performances and helps them to perform better.

What are the primary weaknesses, if any, of the instruction?

Comments

N/A

The instruction was very good overall. I would have liked a break in the middle of every class - we started with this at the beginning but drifted away from it as the class progressed.

My instructor had problems following through with promises to provide answers, homework assignments, and homework answers on time, which made it difficult to plan. For example, we would be told that our homework assignment would be sent out the night after class, and we would not receive the assignment until 2 or 3 days later. This made it difficult to plan out when I would have time to work on my homework and attend office hours.

A week before the final, my instructor told us that the last test of the course would be cumulative, despite the fact that he told us the first day that the last test would not be cumulative.

The fact that the final was cumulative was not the problem. I don't believe he did this to trick us or frazzle us. This meant I had the change the way I was already studying entirely.

He sometimes taught us real world applications which were interesting and I would have liked to learn separate from this class but it sometimes took away from learning the material specific to the course

Can you offer suggestions for improvement?

Comments

Possibly just starting the in-class practice earlier in the course.

The on-the-board working out problems in front of the class was an interesting concept. I'm still not sure how I feel about it but I think it helped a little bit as it forced me to pay closer attention to what was happening so I could participate. Also, breaks in the middle of the class were good at the beginning.

I would suggest to keep a little more organized. Students really depend on due dates and assignment dates.

The only thing would be to simplify the homework assignments slightly

The course could have been better planned. The pace of class was very fast during the initial weeks, during which the foundation was covered. Some homeworks during the initial weeks were very lengthy.



Course and Teacher Evaluation Summary for Instructors

Subject: MATH Mathematics
Academic Term: Summer 2015
Class Number: 40058

Enrollment: 11
Responses: 7
% Responses 63.64

Class: 240-0-28 Linear Algebra
Instructor: Eric Autry

Demographic Questions

| | Education & SP | Communication | Graduate School | KGSM | McCormick | Medill | Music | Summer | SCS | WCAS |
|-------------|----------------|---------------|-----------------|------|-----------|--------|-------|--------|-----|------|
| Your School | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 2 |

| | a. Freshman | b. Sophomore | c. Junior | d. Senior | e. Graduate | f. Other |
|------------|-------------|--------------|-----------|-----------|-------------|----------|
| Your Class | 0 | 1 | 3 | 0 | 1 | 1 |

| | a. Distribution requirement | b. Major requirement | c. Minor requirement | d. Elective requirement | e. Other requirement | f. No requirement |
|--|-----------------------------|----------------------|----------------------|-------------------------|----------------------|-------------------|
| Your reason for taking course (mark all that apply). | 0 | 3 | 1 | 0 | 2 | 1 |

| | 1 | 2 | 3 | 4 | 5 | 6 | Total Response | Average Response |
|---|---|---|---|---|---|---|----------------|------------------|
| Interest in subject before taking course. | 0 | 1 | 1 | 1 | 0 | 4 | 7 | 4.71 |

Core Questions

| | Total Response | 1 Very Low | 2 | 3 | 4 | 5 | 6 Very High | Average Response |
|---|----------------|------------|---|---|---|---|-------------|------------------|
| 1. Provide an overall rating of the instruction | 6 | 0 | 0 | 0 | 0 | 2 | 4 | 5.67 |
| 2. Provide an overall rating of the course. | 6 | 0 | 0 | 0 | 1 | 1 | 4 | 5.50 |
| 3. Estimate how much you learned in the course. | 6 | 0 | 0 | 0 | 0 | 2 | 4 | 5.67 |
| 4. Rate the effectiveness of the course in challenging you intellectually. | 7 | 0 | 1 | 0 | 1 | 1 | 4 | 5.00 |
| 5. Rate the effectiveness of the instructor(s) in stimulating your interest in the subject. | 7 | 0 | 0 | 2 | 0 | 1 | 4 | 5.00 |

Time-Survey Question

| | Total Response | a. 3 or fewer | b. 4 - 7 | c. 8 - 11 | d. 12 - 15 | e. 16 - 19 | f. 20 or more |
|--|----------------|---------------|----------|-----------|------------|------------|---------------|
| 6. Estimate the average number of hours per week you spent on this course outside of class and lab time. | 7 | 1 | 3 | 1 | 2 | 0 | 0 |

School and Department Questions

| | Total Response | 1 Very Low | 2 | 3 | 4 | 5 | 6 Very High | Average Response |
|---|----------------|------------|---|---|---|---|-------------|------------------|
| 7. Rate how well prepared the instructor was for the class. | 7 | 0 | 0 | 0 | 2 | 1 | 4 | 5.29 |
| 8. Rate the effectiveness with which the instructor communicated course content and ideas. | 7 | 0 | 0 | 0 | 2 | 2 | 3 | 5.14 |
| 9. Rate the instructional materials (texts, audiovisual materials, etc.) used in this course. | 7 | 1 | 0 | 1 | 1 | 1 | 3 | 4.43 |
| 10. Rate the instructor's enthusiasm in teaching this class. | 7 | 0 | 0 | 0 | 1 | 0 | 6 | 5.71 |

Essay Questions

1. What are the primary teaching strengths of the instructor(s)?

Eric enjoys the material and cares that we learn. Willing to answer questions in class and not just stick to the script. Provides time in class to work at the board with classmates, which was surprisingly more useful than I would have thought in helping us make sense of the material with him and each other as resources. I think

those 20 minutes every other week saved me a few hours of frustrated internet searching later./Honestly one of the best teachers I have ever had at communicating a subject matter clearly and effectively. He made is easy to do well./Eric had a really good understanding of the material itself and was able to answer a lot of the abstract questions that he was prompted with at a level that was understandable to the students./Explaining concept and theories clearly
Providing examples
Open to questions and willing to help,hold additional office hours

2. What are the primary weaknesses, if any, of the instruction?

There's an assumption that we have experience with formal proofs, so either some resources or a half an hour the first week on how to do proofs for this class would be helpful./I think the hardest part was grasping the material as Eric presented it because it was new-ish material to a lot of people in those class and some of the proofs and examples in class felt higher level for the pace at which we were learning./Without notes available to download/study before class, it's hard to copy down all the steps to proofs and the spoken comments while simultaneously trying to make sense of the material./None

3. Can you offer suggestions for improvement?

Don't start your sentences (or classes) with Um, so. It makes you sound unsure, but five minutes in office hours makes it obvious that you know all the material, and well. don't undermine your credibility that way. Also, those ten-minute breaks halfway through are crucial for focus. Please take them each class./I think it would help a lot to show less of the background mathematics and proofs because I felt that the material and important bits had a tendency to get lost in the clutter./Maybe focus a little more on real world applications in combination to the theory.

4. Did the course help you learn? Why or why not?

Yes, definitely. I had a very rough understanding of matrices and walked out very confident in all the topics we covered./I learned a lot for sure, linear algebra is actually more interesting than I thought. I thought the applications were neat and the course itself structured learning in a way to where I had to constantly refresh my understanding./Yes, it did through explanations and examples, group work and discussions.

5. Please summarize your reaction to this course focusing on the aspects that were most important to you.

I learned a lot, and measures of assessment were very fair./Eric is a great teacher! A pretty straightforward math class./I thought this course was informational and comprehensive, although I would say how the material was presented made it more confusing than the material had to be. I often felt overwhelmed in absorbing all the information presented in class, but besides that no big issues. Eric was great about holding office hours and answering questions through email or in person./The course was interesting and I learned alot.

Given that it is a summer course, the time is a bit limited and the instructor has to focus one a few concepts. Those concepts are main parts of Linear Algebra and were discussed in depth.