Report Comments

Spring 2021 Individual Instructor Report by Section.

Final Report

Course Name: CS 2102 - 001 Discrete Mathematics
Instructor Name: Luther Tychonievich

Evaluation Start Date: May 3 2021 12:00AM
Evaluation End Date: May 13 2021 12:00AM

Spring 2021 Questionnaire

Course Preparation:

1. The average number of hours (per week) that I spent outside of class preparing for CS 2102 - 001 Discrete Mathematics :

- Less than 1
- 1-3
- 4-6
- 7-9
- 10 or more

Course Questions:

Answer the following questions based on your experience in CS 2102 - 001 Discrete Mathematics.
(Strongly Disagree, Disagree, Neutral, Agree, Strongly Agree)

1)The course increased my enthusiasm for the topic.

2)Through this course I gained a deeper understanding of the subject matter.

3)I had access to the course materials I needed to learn, including access to required textbooks, course readings, technology tools, and other materials required for class assignments and projects.

* *If the above question generates a negative response, a branching question will be generated:*

3-A) You disagreed or strongly disagreed that you did not have access to the course materials you needed to learn. Please review the options below and select any of the reasons that may better describe what affected your access to course materials.

- Internet speed and reliability
- Internet connectivity
- It was difficult to obtain hand-on materials needed for the course
- I didn't have the funds to purchase the course materials
- The instructor didn't provide the course materials needed to learn
- Other: Please Specify

Learning Activities Question:
To what extent did the following learning activities contribute to your learning? (A Lot, A Moderate Amount, A Little, Not At All)

- Real-time lecture
- Recorded lectures
- Recorded video demonstrations
- Hands-on activities
- Real-time, whole-class discussion
- Real-time small-group discussion
- Online discussion boards
- Office hours

Open Comment Questions (Course):

1) Please tell us briefly how any of the above learning activities (or other activities not included above) contributed to your learning in this course.

2) What would you like the instructor and university administrators to know about your experience in this course?

Instructor Questions:

Answer the following questions based on your experience with Luther Tychonievich. Your constructive feedback will help your instructor identify what went well and ways to improve the course in the future.
(Strongly Disagree, Disagree, Neutral, Agree, Strongly Agree)

1) The instructor clearly communicated the course schedule and expectations for participation (e.g., readings, discussions).

2) The instructor clearly communicated the course learning objectives.

3) The instructor implemented learning activities and assignments that allowed me to demonstrate understanding of the course material.

4) The instructor provided me prompt and useful feedback on my learning.

5) The instructor provided opportunities for my active participation.

6) The instructor was available to help support my learning.

7) The instructor fostered an environment where I felt valued as an individual and that I belonged in the class.

8) Overall, the instructor was an effective teacher.

9) The instructor created an environment that respected difference and welcomed diverse perspectives.

* *A positive or negative response to the above question will generate a follow-up comment question.*

9A) You selected "AGREE or STRONGLY AGREE" on the previous question: Please give specific examples as to how Luther Tychonievich created an environment that respected difference and welcomed diverse perspectives.

9B) You selected "DISAGREE or STRONGLY DISAGREE" on the previous question: Please give specific examples as to how Luther Tychonievich did not create an environment that respected difference and welcomed diverse perspectives.

Open Comment Question (Instructor):
Your response to the open-ended question below will be shared only with Luther Tychonievich. If this course was taught by multiple instructors, you will have the opportunity to provide feedback to each. Please avoid using instructors' names in your responses to ensure confidentiality.

1) What constructive suggestions do you have to help Luther Tychonievich improve this course for future students?

Student Preparation

The average number of hours (per week) that I spent outside of class preparing for CS 2102 - 001 Discrete Mathematics:

1 Less than 1 (5)	8.77%
2 1-3 (39)	68.42%
3 4-6 (13)	22.81%
4 7-9 (0)	0.00%
5 10 or more (0)	0.00%
[Total (57)]	
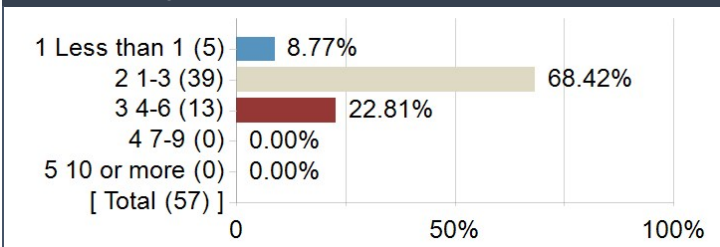
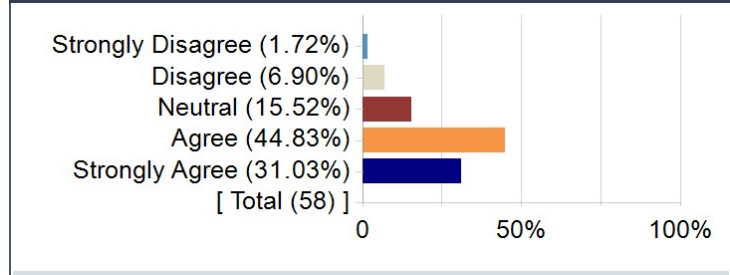| Statistics	Value
Response Count	57
Mean	2.14
Median	2.00
Standard Deviation	0.55

University of Virginia

Course Questions

Mean values are displayed below.

Scale 1 = Strongly Disagree 2 = Disagree 3 = Neutral 4 = Agree 5 = Strongly Agree

Question	Course (CS 2102 001)		Department (CS)		School (ENGR)		Institution (University of Virginia)	
	Response Count	Mean	Response Count	Mean	Response Count	Mean	Response Count	Mean
The course increased my enthusiasm for the topic.	58	3.97	3672	3.82	9286	3.84	55477	3.99
Through this course I gained a deeper understanding of the subject matter.	57	4.28	3660	4.24	9232	4.23	55158	4.32
I had access to the course materials I needed to learn, including access to required textbooks, course readings, technology tools, and other materials required for class assignments and projects.	58	4.69	3677	4.35	9283	4.38	55441	4.50

University of Virginia

1. The course increased my enthusiasm for the topic.

Strongly Disagree (1.72%)
Disagree (6.90%)
Neutral (15.52%)
Agree (44.83%)
Strongly Agree (31.03%)
[Total (58)]

0   50%   100%

Options	Score	Count	Percentage
Strongly Disagree	1	1	1.72%
Disagree	2	4	6.90%
Neutral	3	9	15.52%
Agree	4	26	44.83%
Strongly Agree	5	18	31.03%
Statistics			Value
Mean			3.97
Median			4.00
Standard Deviation			0.95

2. Through this course I gained a deeper understanding of the subject matter.

Strongly Disagree (1.75%)
Disagree (1.75%)
Neutral (5.26%)
Agree (49.12%)
Strongly Agree (42.11%)
[Total (57)]

0   50%   100%
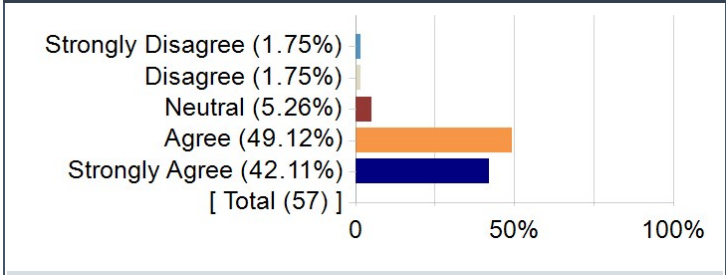
Options	Score	Count	Percentage
Strongly Disagree	1	1	1.75%
Disagree	2	1	1.75%
Neutral	3	3	5.26%
Agree	4	28	49.12%
Strongly Agree	5	24	42.11%
Statistics			Value
Mean			4.28
Median			4.00
Standard Deviation			0.80

3. I had access to the course materials I needed to learn, including access to required textbooks, course readings, technology tools, and other materials required for class assignments and projects.

Strongly Disagree (0.00%)
Disagree (0.00%)
Neutral (3.45%)
Agree (24.14%)
Strongly Agree (72.41%)
[Total (58)]

0   50%   100%
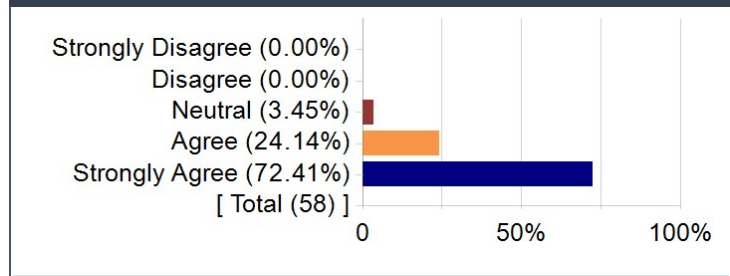
Options	Score	Count	Percentage
Strongly Disagree	1	0	0.00%
Disagree	2	0	0.00%
Neutral	3	2	3.45%
Agree	4	14	24.14%
Strongly Agree	5	42	72.41%
Statistics			Value
Mean			4.69
Median			5.00
Standard Deviation			0.54

1. The course increased my enthusiasm for the topic.
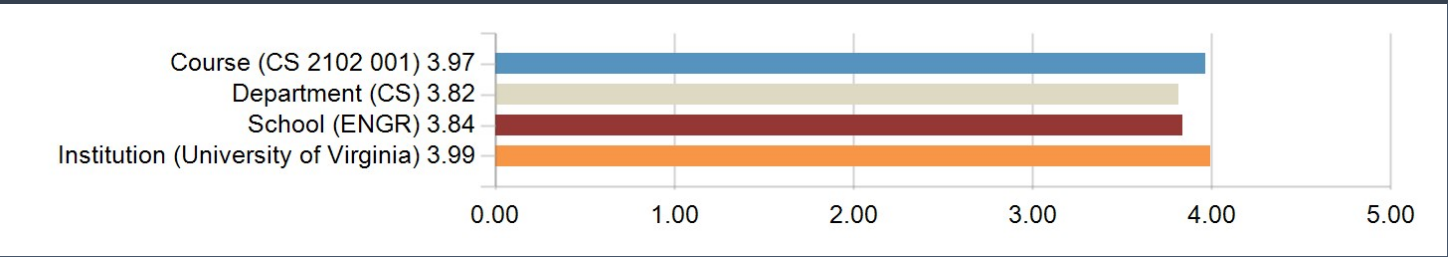
Course (CS 2102 001) 3.97
Department (CS) 3.82
School (ENGR) 3.84
Institution (University of Virginia) 3.99

| 0.00 | 1.00 | 2.00 | 3.00 | 4.00 | 5.00 |

2. Through this course I gained a deeper understanding of the subject matter.

Course (CS 2102 001) 4.28
Department (CS) 4.24
School (ENGR) 4.23
Institution (University of Virginia) 4.32

| 0.00 | 1.00 | 2.00 | 3.00 | 4.00 | 5.00 |

3. I had access to the course materials I needed to learn, including access to required textbooks, course readings, technology tools, and other materials required for class assignments and projects.
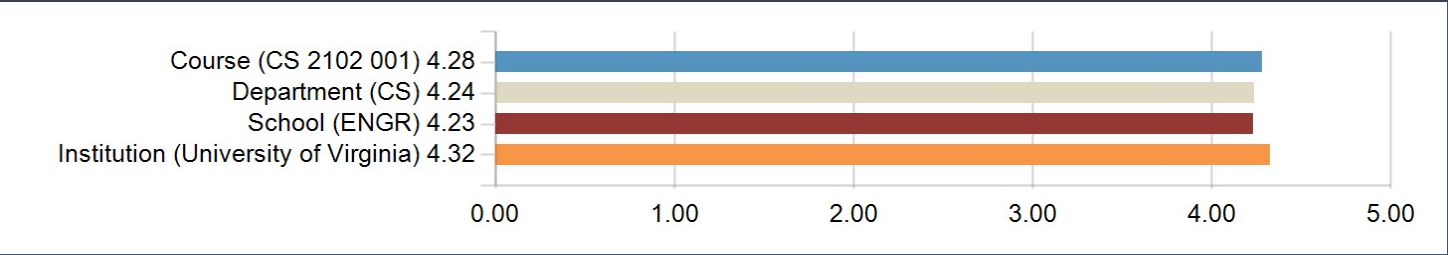
Course (CS 2102 001) 4.69
Department (CS) 4.35
School (ENGR) 4.38
Institution (University of Virginia) 4.50

| 0.00 | 1.00 | 2.00 | 3.00 | 4.00 | 5.00 |

Legend: ■ Strongly Agree / Agree ■ Neutral ■ Strongly Disagree / Disagree

The course increased my enthusiasm for...
Through this course I gained a deeper un...
I had access to the course materials I ne...

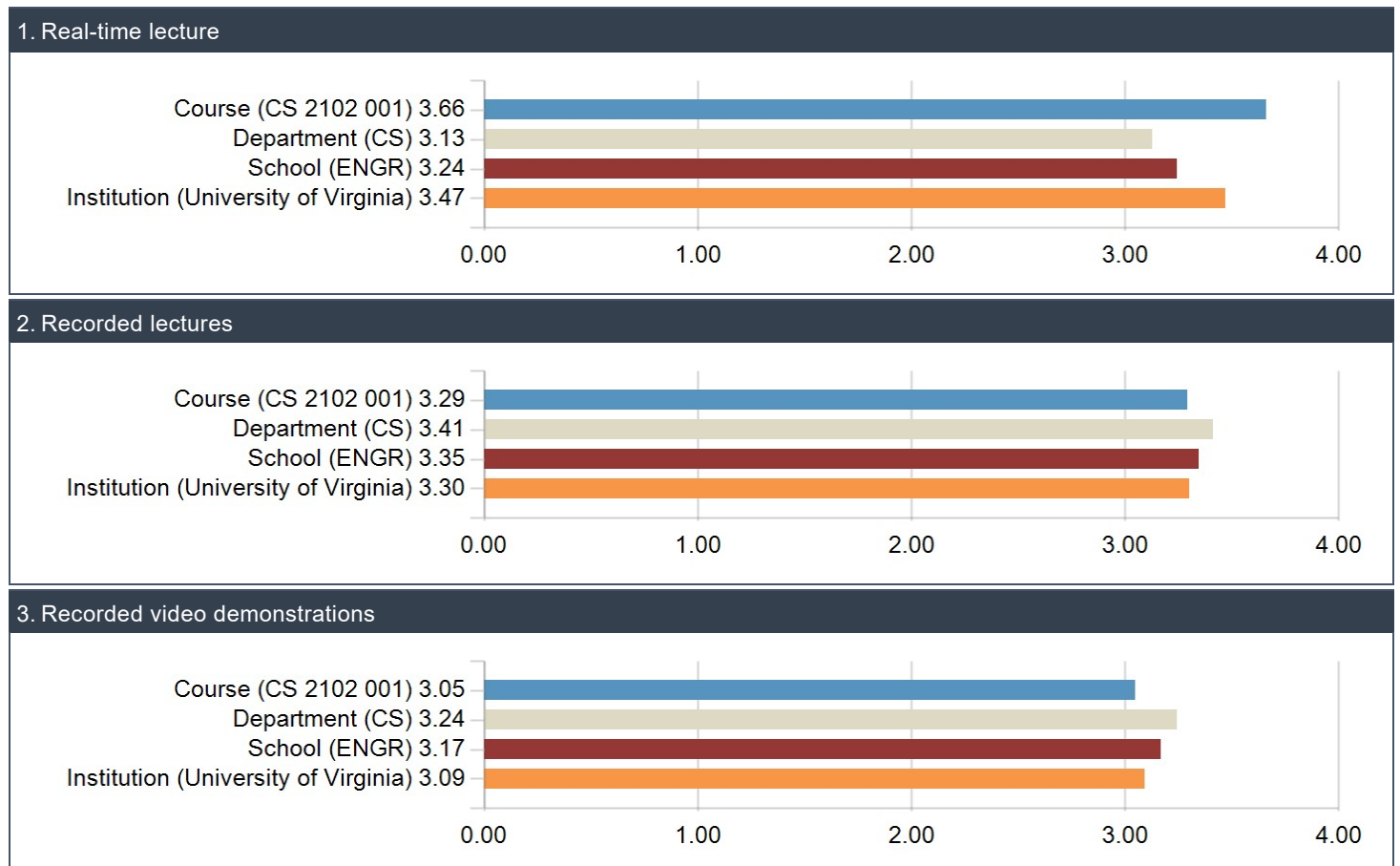| 0% | 20% | 40% | 60% | 80% | 100% |
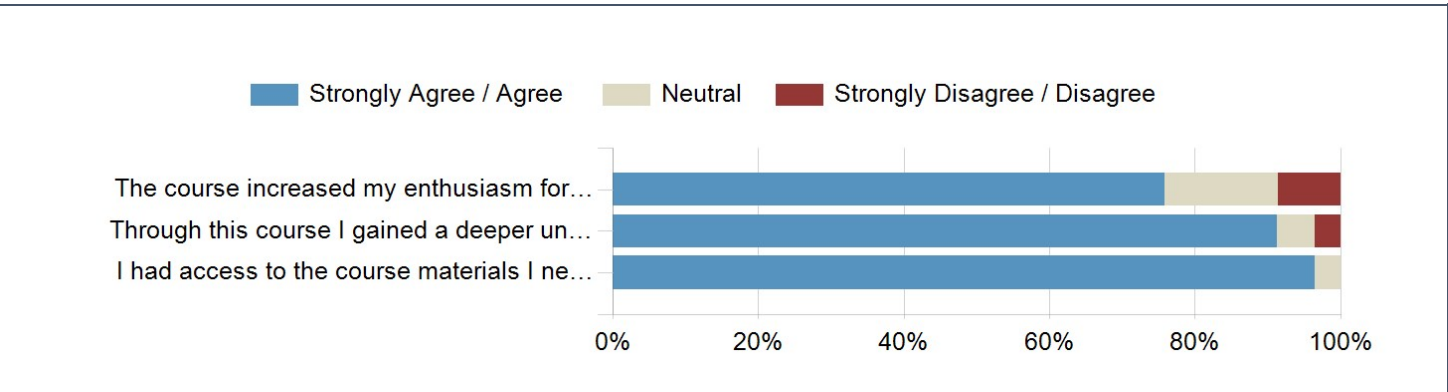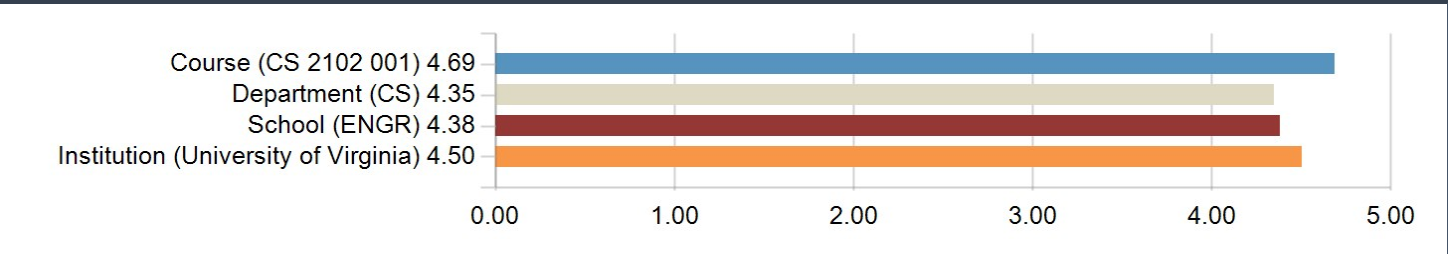
Learning Activities

Mean values are displayed below.

Scale: 1 = Not at All   2 = A Little   3 = A Moderate Amount   4 = A Lot

Learning Activities: To what extent did the following learning activities contribute to your learning?
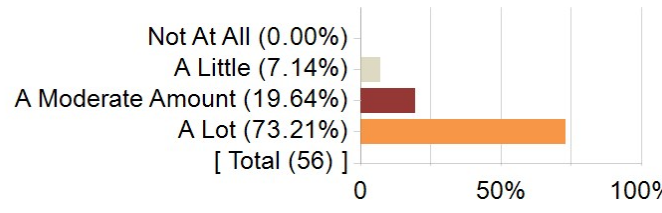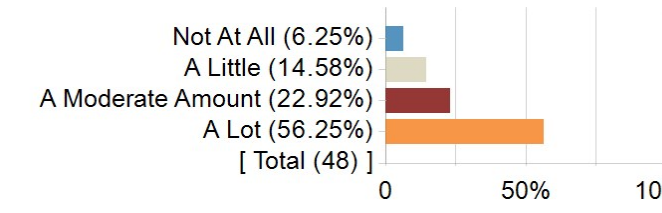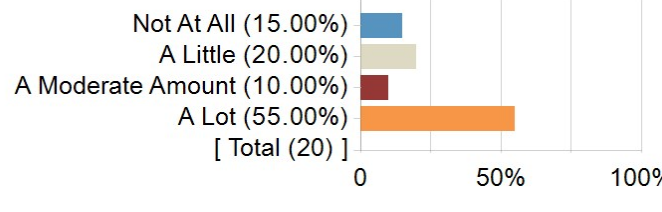
Question	Course (CS 2102 001)		Department (CS)		School (ENGR)		Institution (University of Virginia)	
	Response Count	Mean	Response Count	Mean	Response Count	Mean	Response Count	Mean
Real-time lecture	56	3.66	2620	3.13	7313	3.24	43994	3.47
Recorded lectures	48	3.29	3065	3.41	7213	3.35	33348	3.30
Recorded video demonstrations	20	3.05	2123	3.24	4775	3.17	22190	3.09
Hands-on activities	38	2.87	2867	3.49	6059	3.40	31358	3.37
Real-time, whole-class discussion	37	2.97	1774	2.75	5565	2.90	38534	3.27
Real-time small-group discussion	44	2.70	2167	2.93	5919	3.02	37424	3.25
Online discussion boards	34	2.41	2646	2.98	5563	2.87	25571	2.85
Office hours	43	2.65	2777	2.99	6678	2.97	33386	2.93

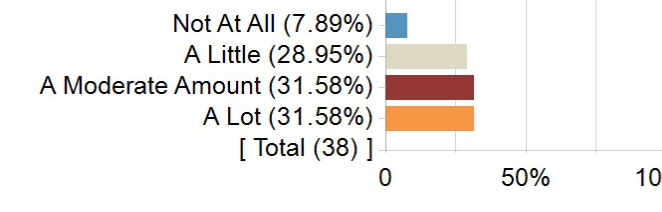**Learning Activities: To what extent did the following learning activities contribute to your learning?**

1. Real-time lecture

Course (CS 2102 001) 3.66
Department (CS) 3.13
School (ENGR) 3.24
Institution (University of Virginia) 3.47

2. Recorded lectures

Course (CS 2102 001) 3.29
Department (CS) 3.41
School (ENGR) 3.35
Institution (University of Virginia) 3.30

3. Recorded video demonstrations

Course (CS 2102 001) 3.05
Department (CS) 3.24
School (ENGR) 3.17
Institution (University of Virginia) 3.09

4. Hands-on activities

Course (CS 2102 001) 2.87
Department (CS) 3.49
School (ENGR) 3.40
Institution (University of Virginia) 3.37

0.00 1.00 2.00 3.00 4.00

5. Real-time, whole-class discussion

Course (CS 2102 001) 2.97
Department (CS) 2.75
School (ENGR) 2.90
Institution (University of Virginia) 3.27

0.00 1.00 2.00 3.00 4.00

6. Real-time small-group discussion

Course (CS 2102 001) 2.70
Department (CS) 2.93
School (ENGR) 3.02
Institution (University of Virginia) 3.25

0.00 1.00 2.00 3.00 4.00

7. Online discussion boards

Course (CS 2102 001) 2.41
Department (CS) 2.98
School (ENGR) 2.87
Institution (University of Virginia) 2.85

0.00 1.00 2.00 3.00 4.00

8. Office hours

Course (CS 2102 001) 2.65
Department (CS) 2.99
School (ENGR) 2.97
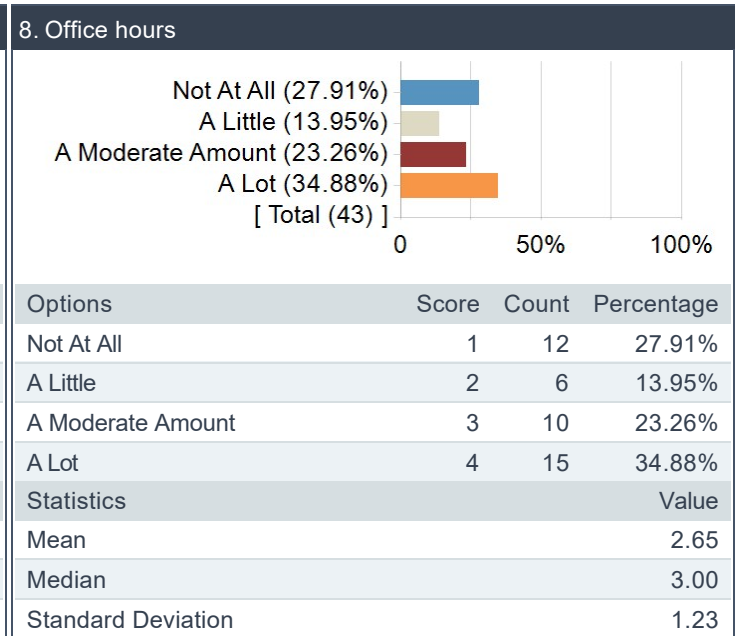Institution (University of Virginia) 2.93
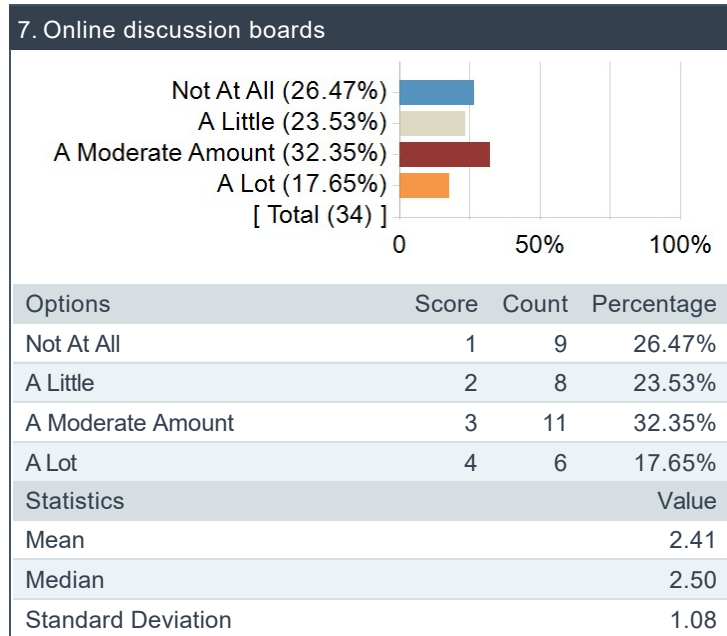
0.00 1.00 2.00 3.00 4.00

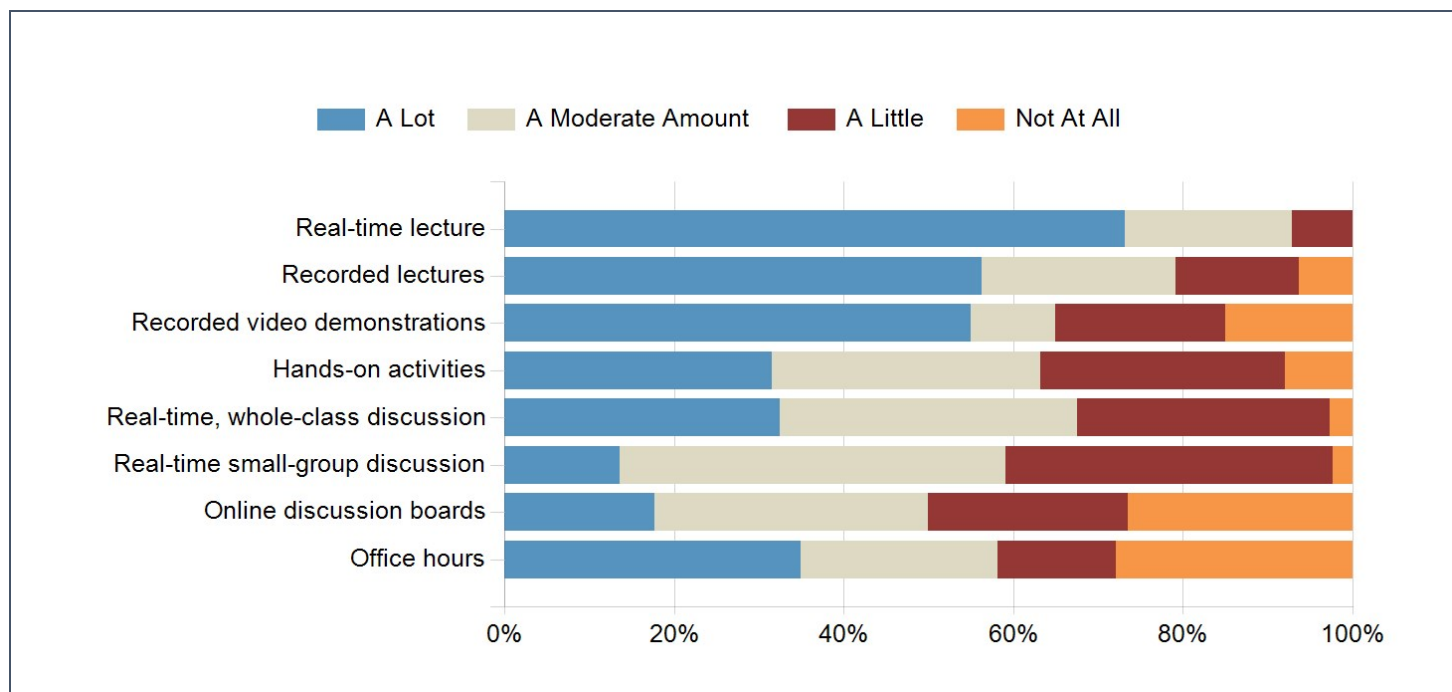**Learning Activities: To what extent did the following learning activities contribute to your learning?**

1. Real-time lecture

Not At All (0.00%)
A Little (7.14%)
A Moderate Amount (19.64%)
A Lot (73.21%)
[Total (56)]

Options	Score	Count	Percentage
Not At All	1	0	0.00%
A Little	2	4	7.14%
A Moderate Amount	3	11	19.64%
A Lot	4	41	73.21%
Statistics			Value
Mean			3.66
Median			4.00
Standard Deviation			0.61

2. Recorded lectures

Not At All (6.25%)
A Little (14.58%)
A Moderate Amount (22.92%)
A Lot (56.25%)
[Total (48)]

Options	Score	Count	Percentage
Not At All	1	3	6.25%
A Little	2	7	14.58%
A Moderate Amount	3	11	22.92%
A Lot	4	27	56.25%
Statistics			Value
Mean			3.29
Median			4.00
Standard Deviation			0.94

3. Recorded video demonstrations

Not At All (15.00%)
A Little (20.00%)
A Moderate Amount (10.00%)
A Lot (55.00%)
[Total (20)]

Options	Score	Count	Percentage
Not At All	1	3	15.00%
A Little	2	4	20.00%
A Moderate Amount	3	2	10.00%
A Lot	4	11	55.00%
Statistics			Value
Mean			3.05
Median			4.00
Standard Deviation			1.19

4. Hands-on activities

Not At All (7.89%)
A Little (28.95%)
A Moderate Amount (31.58%)
A Lot (31.58%)
[Total (38)]

Options	Score	Count	Percentage
Not At All	1	3	7.89%
A Little	2	11	28.95%
A Moderate Amount	3	12	31.58%
A Lot	4	12	31.58%
Statistics			Value
Mean			2.87
Median			3.00
Standard Deviation			0.96

5. Real-time, whole-class discussion

Not At All (2.70%)
A Little (29.73%)
A Moderate Amount (35.14%)
A Lot (32.43%)
[Total (37)]

Options	Score	Count	Percentage
Not At All	1	1	2.70%
A Little	2	11	29.73%
A Moderate Amount	3	13	35.14%
A Lot	4	12	32.43%
Statistics			Value
Mean			2.97
Median			3.00
Standard Deviation			0.87

6. Real-time small-group discussion

Not At All (2.27%)
A Little (38.64%)
A Moderate Amount (45.45%)
A Lot (13.64%)
[Total (44)]

Options	Score	Count	Percentage
Not At All	1	1	2.27%
A Little	2	17	38.64%
A Moderate Amount	3	20	45.45%
A Lot	4	6	13.64%
Statistics			Value
Mean			2.70
Median			3.00
Standard Deviation			0.73

7. Online discussion boards

Not At All (26.47%)
A Little (23.53%)
A Moderate Amount (32.35%)
A Lot (17.65%)
[Total (34)]

Options	Score	Count	Percentage
Not At All	1	9	26.47%
A Little	2	8	23.53%
A Moderate Amount	3	11	32.35%
A Lot	4	6	17.65%
Statistics			Value
Mean			2.41
Median			2.50
Standard Deviation			1.08

8. Office hours

Not At All (27.91%)
A Little (13.95%)
A Moderate Amount (23.26%)
A Lot (34.88%)
[Total (43)]

Options	Score	Count	Percentage
Not At All	1	12	27.91%
A Little	2	6	13.95%
A Moderate Amount	3	10	23.26%
A Lot	4	15	34.88%
Statistics			Value
Mean			2.65
Median			3.00
Standard Deviation			1.23

Learning Activities: To what extent did the following learning activities contribute to your learning?

Please tell us briefly how any of the above learning activities (or other activities not included above) contributed to your learning in this course.

Comments
The real time lectures really helped introduce the material. The numerous questions provided in the practice resources helped reinforce my learning.
Most of my learning came from watching the lectures (mostly in real time, but sometimes the recorded ones). Everything else was more supplemental.
Most of my learning can be attributed to the class to the real–time lectures that are also recorded. Additionally, the group work did we did sometimes was super helpful. I didn't need to go to office hours as I was able to get through the class with the notes and lectures.
The real time lectures were the main way I learned in this class. The practice questions he gives and online writeups on the course website were the main other way I learned the material.
I learned the most during real time lectures where the professor would go over the material and answer questions that we had about the topic.
Having a schedule to go to class helped a lot with organizing what I learned, and the weekly quizzes made me make sure I learned everything from that week.
The recorded lectures were really useful in case I missed anything during the live lectures.
Being able to go back and watch lectures again easily at adjustable speeds was nice.
Office hours were helpful to understanding confusing topics during lectures.
I found office hours to be especially helpful as they allowed me to review certain concepts/practice test questions with TA's. I also found the practice tests to be very helpful for me in preparing for weekly quizzes.
I liked how the videos were recorded in case we missed class or wanted to go back and watch it. I also appreciate how you can watch the videos in a self–inputed time speed (ex. 2.75x).
Overall this was just a really good class. There was a lot of information provide as supplement and there were always office hours you could go to to get help.
Every resource I could have possibly needed was at my disposal. The class was extremely engaging and I learned a lot!
The lectures were enough for me to understand the material. I don't think the group work helped me understand anything more, and if anything I thought the difficulty of the group work was higher than most of the quizzes.
This course has a Discord server where we can access office hours easily.
The main thing about the course was the live lectures, which the professor allowed questions at various points to check for understanding. There were also group projects every few weeks which made it feel more like a classroom setting which was nice.

Comments
Having the lectures be recorded helped a lot when it came time to study for quizzes.
The professor made the most out of the MWF live lectures in being able to teach that week's concepts through live problem work throughs.
Lectures were the best resource.
In–class time for this class was very productive and used well to maximize how much we could learn. Most of the material covered in class was important and useful.
The real–time lectures contributed the most to my learning. The practice problems were helpful in testing your comprehension of the material.
Class lecture/discussion and office hours helped build my foundations of discrete math
The lectures were where we learned most of the material, and because each one was recorded, watching them back to gain further understanding was possible. We had plenty of resources online as well to communicate with others in our class, which was very helpful for answering each other's questions.
Office hours were really helpful because the professors and TAs were able to answer my questions, which clarified a lot of things for me.
having weekly quizzes that can all have a decent impact on your course grade made the course VERY stressful
The recorded lectures were helpful because I could skip past the parts I understood and re–watch the parts I didn't understand.
Lectures taught me most of everything and then the practice problems for the quiz made it stick.
With Office hours I was able to get clarification and help on upcoming quizzes and problems.
Real–time lectures helped me a lot. I enjoyed Professor's flow and having set time to learn discrete math. The recorded lectures also helped me a lot. For portions of the notes that I was unsure about and wanted to review, I could easily access the recording on the class website (without the hassle of a zoom passcode). Hands–on activities were in my opinion the abundance of practice material. Being able to see the types of questions and briefly go over starred questions in class was helpful. Small group discussion in the form of group work was okay, really depending on which breakout room you were assigned to. Office hours were extremely helpful. The TAs are nice and explain concepts well.
The most useful learning activities were the recorded lectures and the plethora of pages explaining discrete math concepts on the course website.
The lectures were pretty in–depth and helpful. They covered a lot of material and pretty adequately prepared for the quizzes. The quizzes were a little too hard from time to time, but the grading was usually fair if there was a problem with the wording of the quiz, etc.
I found that, for the most part, the TA office hours were very helpful. I often understood class concepts because of the help that I got from the TAs rather than what I got from going to lecture.
I was able to learn the material mostly through the lectures and the questions asked during class, as well as the additional practice problems provided.
Listening and re–watching helped a lot
The only thing that really impacted my learning was the live lectures and the prep for the live lectures. I never really went back and watched the recorded lectures. The three small group discussions that we had also had a limited impact on my understanding of the material as a whole. Additionally, I never attended OH, so that had no impact on my learning.
I think real time lectures contributed the most to my learning because the professor was able to explain all the concepts during that time and there were also plenty of time for questions and discussions for further expansion on the topics.

Course Comments

What would you like the instructor and university administrators to know about your experience in this course?

Comments
The professor did a great job teaching this course! He taught the material during real time lectures and went through many practice problems. He provided numerous practice questions to prepare for quizzes, and working through these problems really helped reinforce my learning.
I enjoyed this class and thought that it was very well taught, mostly due to Professor Tychonievich's wonderful teaching.
I really enjoyed this course.
I enjoyed this class and I thought it was taught very well. I would like to say that I learn best by doing practice problems so the practice problems on the website were perfect for me and I really enjoyed having a way to see similar questions and answers before the quizzes.
I really enjoyed this course and I think that the instructor was an effective teacher.
it was good
I liked the course, and would recommend it to someone who needs to take it.
The course was planned really nicely and the course was quite organized. Professor Tychonievich was a great teacher as well.
I enjoyed this course and I liked the website they made with the schedule, practice quizzes, and progress tracker. All of this was very helpful.
Small discussion groups during the group projects were really hard.
I thought that this course was a beneficial and interesting introduction to mathematics relating to computer science. I think the organization of this class helped me greatly in learning about logic/reasoning skills through in–class content.
Instead of having the grading scale be the lowest of the maximum score vs. the minimum score + 10, it would be better to choose the higher of the two. The difficulty throughout the modules was not the same, so it shouldn't be that the grading scale rewards consistency if the questions themselves aren't even consistent.
This was a great course. I found the topics interesting and easy to understand when explained by Prof Tychonievich.
This was my favorite class that I took this semester. Thanks so much for making it so great! Keep doing what you're doing!
This is just a good online class— the teacher had a good setup with TAs to manage questions in lecture, and he was always high energy and excited to help people. To be completely honest, considering how all the materials are online, I don't really see the need to ever have this class in person, but that's just how I feel. The grading system for this class was probably the most complicated I've ever seen, but I ended with a 100 in the class so you won't hear me complaining about it. I like that people have the ability to really demonstrate that they have mastered information if they didn't get things right the first time.
I enjoyed my experience in this course because I learned various, interesting mathematical concepts.
I enjoyed it, definitely one of my favorite classes at UVA thus far and I thought he taught it very well.
I found this course very interesting and actually enjoyed it, but still struggled to understand how it is applicable and what the next step was.
The professor was very enthusiastic about the course and it showed each lecture, which made me pretty happy about it. He was always ready to help and it made me feel confident in how I'd be learning.
The grading system is strange, and disincentivizes working hard everyday. It incentivizes cramming for makeups.
This class was very well run and I thought the grading system was unique and beneficial to both students and instructors.
I overall enjoyed this class. I struggled with some material, but I thought the class was fun and engaging. The professor does a good job clarifying things as well for the students.
I thought it was an incredibly interesting course! I did not know much about what the course content was going to be, but it ended up being topics that I thought were very interesting that also helped me in other classes outside of just this one.
I appreciate Prof. Tychonievich's enthusiasm in teaching and his drawings at the start of every lecture. One improvement would be organizing the writeups in one place; some of them are in the writeups section while others are only accessible via drop–down in the calendar.
sucks when two quizzes can bring your grade down a letter even when you do well on all the rest
–
It was a good overview of CS math topics. It sometimes moved a bit fast and jumped around a lot. Because of the grading system, I sometimes felt like I would cram learning everything into a Thursday night, take the Friday quiz, and release it from my memory by the next week.

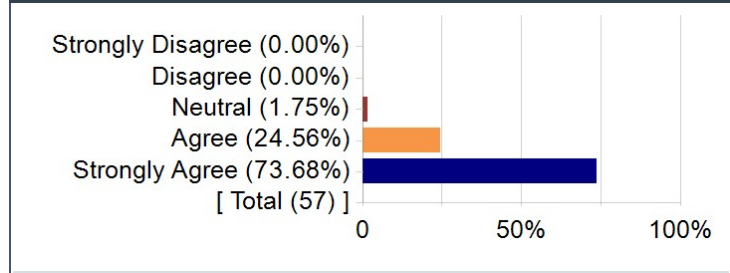| Comments |
| --- |
| Professor Tychonievich is one of the best professors I have had at this University. |
| I enjoyed the class. The grading system is very lenient which was nice. |
| I'm happy I was able to learn the material effectively even during a pandemic! |
| My experience in this course was positive. I enjoyed the Professor's way of teaching and the course structure and found it fair. I especially appreciated the multiple opportunities to make up material to show your learning. |
| The course was fantastically organized; the website was well structured and easy to navigate, there were many resources explaining concepts, and the grading system was the best I have come across. Professor Tychonievich's instruction was wonderful; his enthusiasm was infectious, his communication of the concepts was clear, and his lectures always brought a wholesome energy to the day. |
| I'm not a CS major but decided to take this class and thought it was pretty well structured and Professor Tychonievich did a really nice job keeping everyone engaged in his lectures. |
| This course has been my least favorite class at the university so far. I have dropped my CS minor because of this course. I felt like the course started out pretty easy but then significantly got harder and by that point it was too late to drop out of the class. I felt as though this course did not connect to what I had learned in Introduction to Programming. I also felt like the concepts were taught as if many of us had seen this stuff before. At least for me, many of these topics were brand new and hard to grasp. This class caused me a lot of stress and anxiety and I have advised people not to take this class unless they absolutely have to. |
| I had an overall positive experience in the class. I enjoyed the way it was taught and I thought that the grading/retake options were very beneficial from the student's perspective to actually prove you know the material. |
| It was a good course and I learned a lot |
| I loved how this course did not have a midterm or a final that dictated the entire grade. The way that there is 2 quizzes most weeks ensures that I am keeping myself up with the material. |
| I understand the importance of this course to provide a baseline to students with various backgrounds in CS and mathematics, and this course did exactly that. Personally, the material was not that engaging, but my professor really made the class interesting. |
| I really enjoyed this course and I think the lectures were always extremely helpful and taught me a great amount. This course has made me enjoy discrete mathematics and see mathematics in a different way. |
| The professor created a great atmosphere that welcomed questions and went into great detail about the information. |

Instructor Questions

Mean values are displayed below.

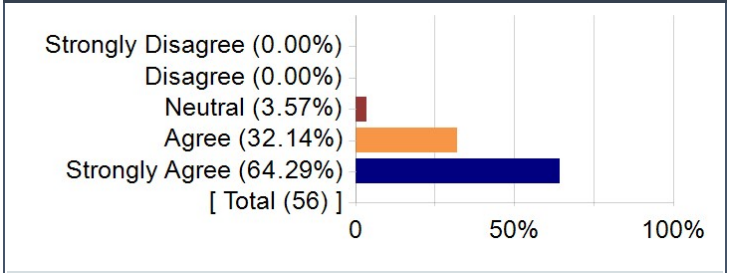*Scale 1 = Strongly Disagree 2 = Disagree 3 = Neutral 4 = Agree 5 = Strongly Agree*

Question	Instructor Average - this course		Instructor Average - all courses (lat7h Luther Tychonievich)		Department (CS)		School (ENGR)	
	Response Count	Mean	Response Count	Mean	Response Count	Mean	Response Count	Mean
The instructor clearly communicated the course schedule and expectations for participation (e.g., readings, discussions).	57	4.72	80	4.71	3646	4.37	10385	4.35
The instructor clearly communicated the course learning objectives.	56	4.61	79	4.62	3655	4.36	10389	4.36
The instructor implemented learning activities and assignments that allowed me to demonstrate understanding of the course material.	57	4.46	80	4.48	3654	4.28	10400	4.27
The instructor provided me prompt and useful feedback on my learning.	57	4.26	80	4.28	3656	3.98	10415	4.01
The instructor provided opportunities for my active participation.	55	4.22	78	4.26	3649	4.01	10396	4.10
The instructor was available to help support my learning.	56	4.38	79	4.42	3648	4.13	10381	4.24
The instructor fostered an environment where I felt valued as an individual and that I belonged in the class.	57	4.30	80	4.33	3655	4.07	10400	4.16
Overall, the instructor was an effective teacher.	56	4.68	79	4.67	3644	4.15	10385	4.21
The instructor created an environment that respected difference and welcomed diverse perspectives.	56	4.25	79	4.29	3659	4.03	10408	4.09

1. The instructor clearly communicated the course schedule and expectations for participation (e.g., readings, discussions).
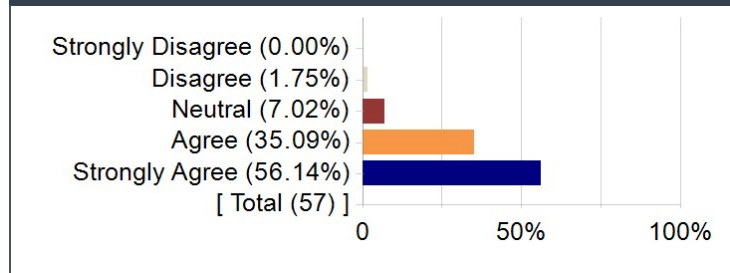
Strongly Disagree (0.00%)
Disagree (0.00%)
Neutral (1.75%)
Agree (24.56%)
Strongly Agree (73.68%)
[Total (57)]

Options	Score	Count	Percentage
Strongly Disagree	1	0	0.00%
Disagree	2	0	0.00%
Neutral	3	1	1.75%
Agree	4	14	24.56%
Strongly Agree	5	42	73.68%
Statistics			Value
Mean			4.72
Median			5.00
Standard Deviation			0.49

2. The instructor clearly communicated the course learning objectives.

Strongly Disagree (0.00%)
Disagree (0.00%)
Neutral (3.57%)
Agree (32.14%)
Strongly Agree (64.29%)
[Total (56)]

Options	Score	Count	Percentage
Strongly Disagree	1	0	0.00%
Disagree	2	0	0.00%
Neutral	3	2	3.57%
Agree	4	18	32.14%
Strongly Agree	5	36	64.29%
Statistics			Value
Mean			4.61
Median			5.00
Standard Deviation			0.56

3. The instructor implemented learning activities and assignments that allowed me to demonstrate understanding of the course material.

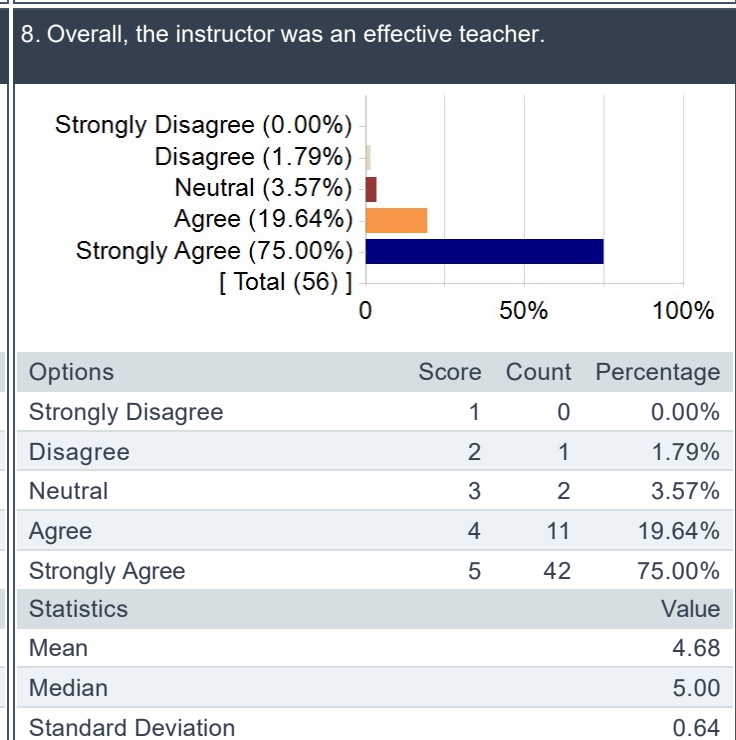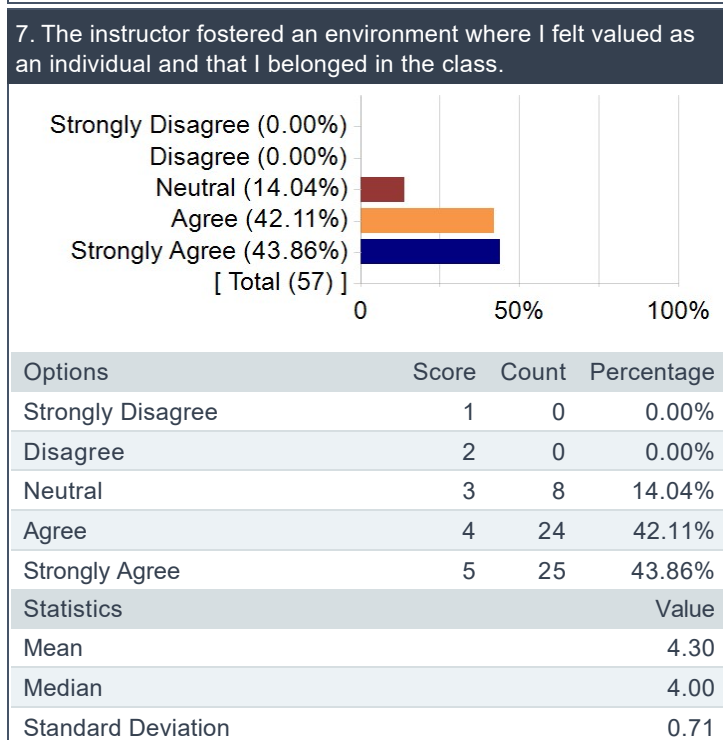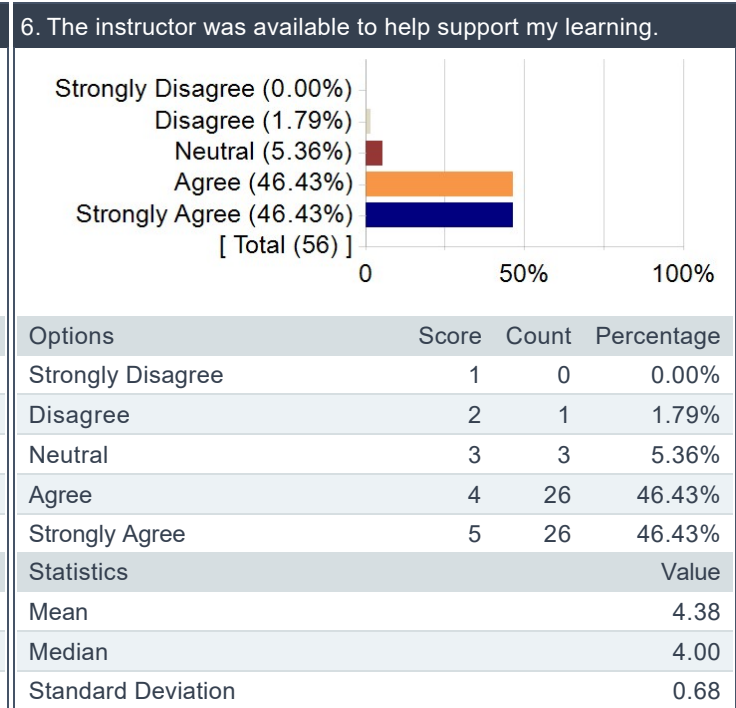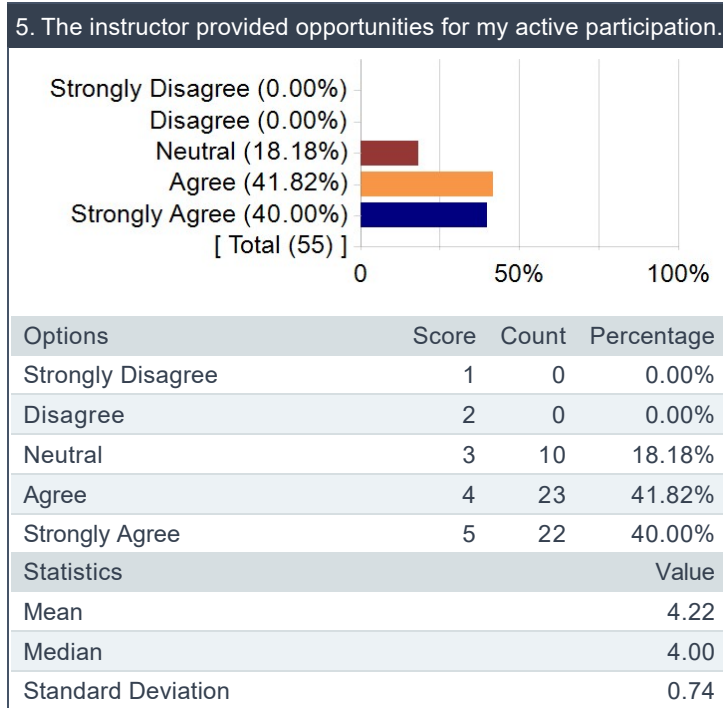Strongly Disagree (0.00%)
Disagree (1.75%)
Neutral (7.02%)
Agree (35.09%)
Strongly Agree (56.14%)
[Total (57)]

Options	Score	Count	Percentage
Strongly Disagree	1	0	0.00%
Disagree	2	1	1.75%
Neutral	3	4	7.02%
Agree	4	20	35.09%
Strongly Agree	5	32	56.14%
Statistics			Value
Mean			4.46
Median			5.00
Standard Deviation			0.71

4. The instructor provided me prompt and useful feedback on my learning.

Strongly Disagree (0.00%)
Disagree (1.75%)
Neutral (14.04%)
Agree (40.35%)
Strongly Agree (43.86%)
[Total (57)]
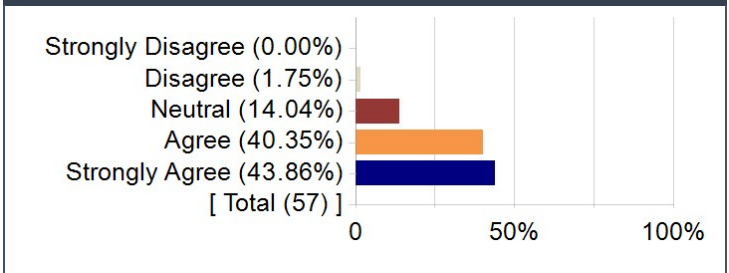
Options	Score	Count	Percentage
Strongly Disagree	1	0	0.00%
Disagree	2	1	1.75%
Neutral	3	8	14.04%
Agree	4	23	40.35%
Strongly Agree	5	25	43.86%
Statistics			Value
Mean			4.26
Median			4.00
Standard Deviation			0.77

5. The instructor provided opportunities for my active participation.

Strongly Disagree (0.00%)
Disagree (0.00%)
Neutral (18.18%)
Agree (41.82%)
Strongly Agree (40.00%)
[Total (55)]

Options	Score	Count	Percentage
Strongly Disagree	1	0	0.00%
Disagree	2	0	0.00%
Neutral	3	10	18.18%
Agree	4	23	41.82%
Strongly Agree	5	22	40.00%
Statistics			Value
Mean			4.22
Median			4.00
Standard Deviation			0.74

6. The instructor was available to help support my learning.

Strongly Disagree (0.00%)
Disagree (1.79%)
Neutral (5.36%)
Agree (46.43%)
Strongly Agree (46.43%)
[Total (56)]

Options	Score	Count	Percentage
Strongly Disagree	1	0	0.00%
Disagree	2	1	1.79%
Neutral	3	3	5.36%
Agree	4	26	46.43%
Strongly Agree	5	26	46.43%
Statistics			Value
Mean			4.38
Median			4.00
Standard Deviation			0.68

7. The instructor fostered an environment where I felt valued as an individual and that I belonged in the class.

Strongly Disagree (0.00%)
Disagree (0.00%)
Neutral (14.04%)
Agree (42.11%)
Strongly Agree (43.86%)
[Total (57)]

Options	Score	Count	Percentage
Strongly Disagree	1	0	0.00%
Disagree	2	0	0.00%
Neutral	3	8	14.04%
Agree	4	24	42.11%
Strongly Agree	5	25	43.86%
Statistics			Value
Mean			4.30
Median			4.00
Standard Deviation			0.71

8. Overall, the instructor was an effective teacher.

Strongly Disagree (0.00%)
Disagree (1.79%)
Neutral (3.57%)
Agree (19.64%)
Strongly Agree (75.00%)
[Total (56)]

Options	Score	Count	Percentage
Strongly Disagree	1	0	0.00%
Disagree	2	1	1.79%
Neutral	3	2	3.57%
Agree	4	11	19.64%
Strongly Agree	5	42	75.00%
Statistics			Value
Mean			4.68
Median			5.00
Standard Deviation			0.64

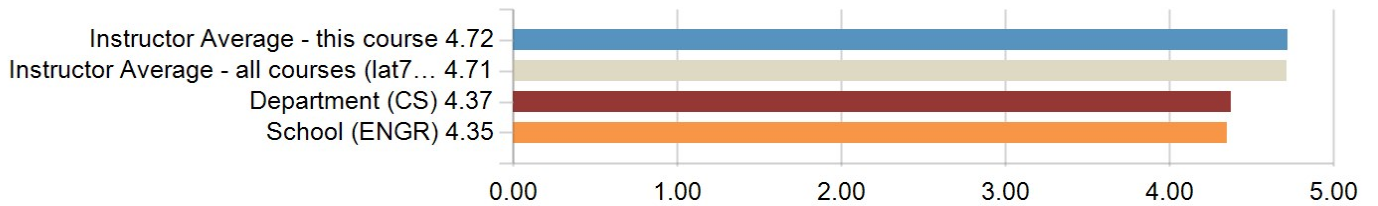## 9. The instructor created an environment that respected difference and welcomed diverse perspectives.
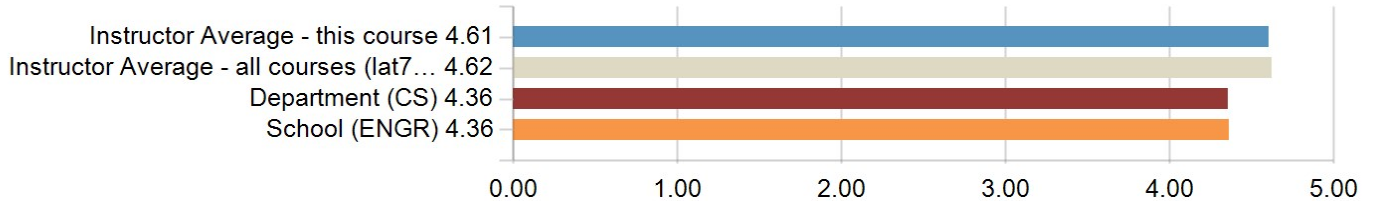
Strongly Disagree (0.00%)
Disagree (0.00%)
Neutral (23.21%)
Agree (28.57%)
Strongly Agree (48.21%)
[Total (56)]

Options	Score	Count	Percentage
Strongly Disagree	1	0	0.00%
Disagree	2	0	0.00%
Neutral	3	13	23.21%
Agree	4	16	28.57%
Strongly Agree	5	27	48.21%
Statistics			Value
Mean			4.25
Median			4.00
Standard Deviation			0.81

1. The instructor clearly communicated the course schedule and expectations for participation (e.g., readings, discussions).

Instructor Average - this course 4.72
Instructor Average - all courses (lat7… 4.71
Department (CS) 4.37
School (ENGR) 4.35

2. The instructor clearly communicated the course learning objectives.

Instructor Average - this course 4.61
Instructor Average - all courses (lat7… 4.62
Department (CS) 4.36
School (ENGR) 4.36

3. The instructor implemented learning activities and assignments that allowed me to demonstrate understanding of the course material.
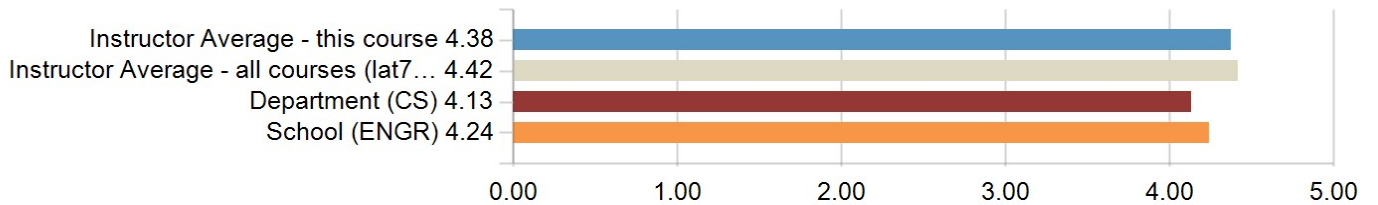
Instructor Average - this course 4.46
Instructor Average - all courses (lat7… 4.48
Department (CS) 4.28
School (ENGR) 4.27

4. The instructor provided me prompt and useful feedback on my learning.

Instructor Average - this course	4.26
Instructor Average - all courses (lat7...	4.28
Department (CS)	3.98
School (ENGR)	4.01

5. The instructor provided opportunities for my active participation.

Instructor Average - this course	4.22
Instructor Average - all courses (lat7...	4.26
Department (CS)	4.01
School (ENGR)	4.10

6. The instructor was available to help support my learning.

Instructor Average - this course	4.38
Instructor Average - all courses (lat7...	4.42
Department (CS)	4.13
School (ENGR)	4.24

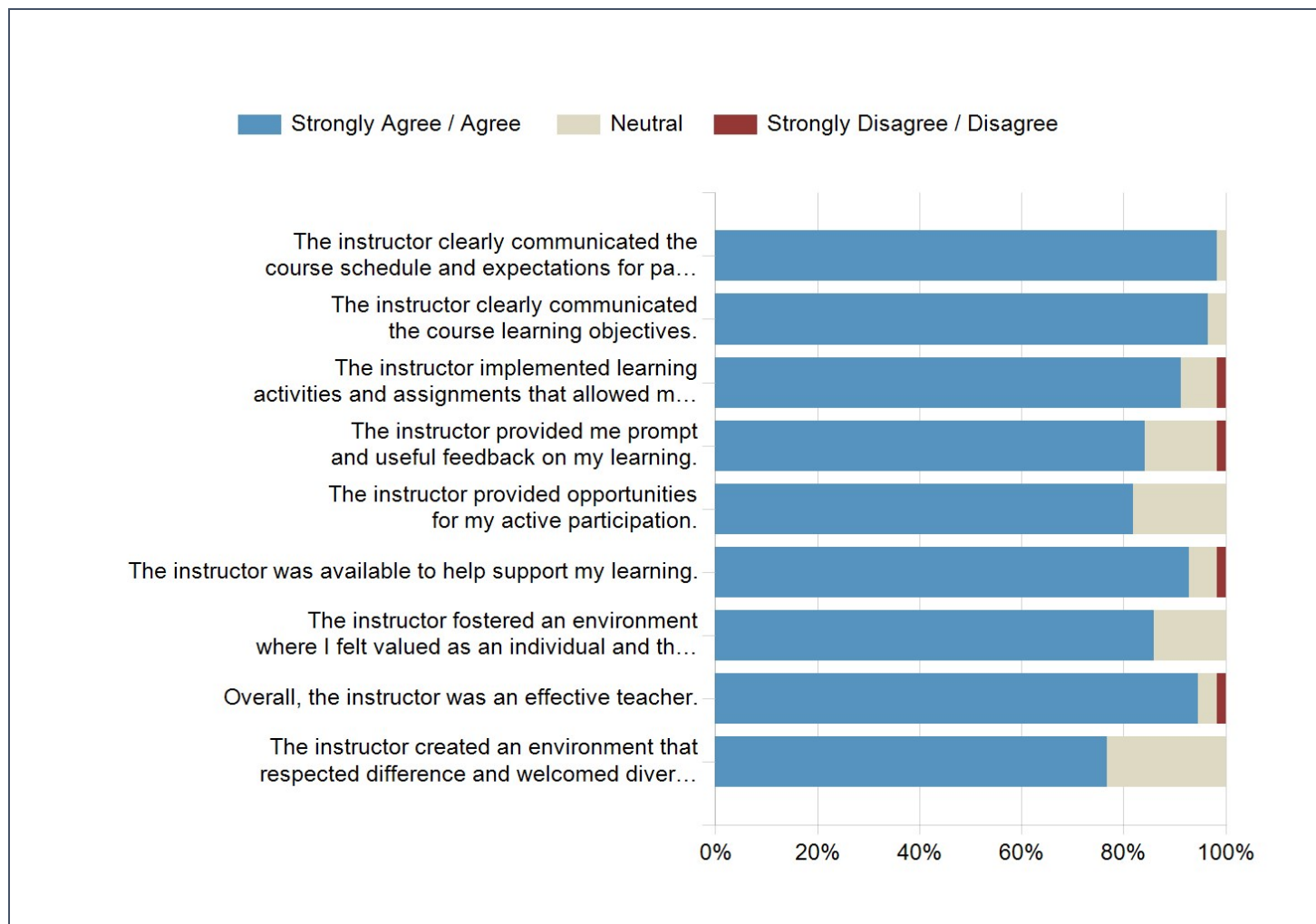## 7. The instructor fostered an environment where I felt valued as an individual and that I belonged in the class.

Instructor Average - this course	4.30
Instructor Average - all courses (lat7...	4.33
Department (CS)	4.07
School (ENGR)	4.16

8. Overall, the instructor was an effective teacher.

Instructor Average - this course	4.68
Instructor Average - all courses (lat7...	4.67
Department (CS)	4.15
School (ENGR)	4.21

9. The instructor created an environment that respected difference and welcomed diverse perspectives.

Instructor Average - this course	4.25
Instructor Average - all courses (lat7...	4.29
Department (CS)	4.03
School (ENGR)	4.09

You selected "AGREE or STRONGLY AGREE" on the previous question: Please give specific examples as to how Luther Tychonievich created an environment that respected difference and welcomed diverse perspectives.

Comments
This professor never said anything that disrespected differences or unwelcomed diverse perspectives. He fostered an open environment.
It seemed like everyone felt comfortable sharing their thoughts on a topic because Professor Tychonievich would always take it into consideration, and if needed, politely corrected them and explained what they might've been confused about.
When we answer questions during the lecture, he once mentioned to us to be mindful and accepting of different answers.
Professor Tychonievich is a kind professor who allowed students to learn individually and in group settings, catering to many different learning styles.
The teacher allowed for all students to ask questions during the lectures whenever they wanted. If the student said something incorrect or that differed in opinion to his own, he was very polite and respectful to the student regardless of what they said.
He always encouraged students to ask questions and participate during the lectures.
We were able to ask questions freely.
I felt like I could ask any question during class without being judged, he was very nice.
Everyone was able to speak their mind.
EVery person had the opporutnity to ask questions of all kinds during the lectures and was given the proper time and respect to do so. Professor encouraged us to do this and made sure we always felt welcome and enjoyed time during lectures.
He was very open to answering questions during class and was able to refer to other sources.
Professor Tychonievich always welcomed questions and was always very patient and kind. He would welcome students to present how they solved the problem and would advise accordingly. I always felt welcome in class and had a great experience overall.

Comments
If the class needed help or clarification, the class could stop the lecture and ask the question to the professor. No matter what you stand for, the professor will listen to you and provide his own opinion on the given subject.
He always was open to answering questions and made it seem as though he was excited to answer clarification questions which definitely reassured a bulk of the students in the class.
he allowed for questions and different answers
He always made time in class to hear people out and ask questions about what we learned about. He also was very understanding if issues came up or there was any confusion.
Professor Tychonievich was very enthusiastic and positive in every class. He always had a smile on his face and it lifted the mood of each lecture. He'd actively ask for class participation while working through examples and encouraged questions.
Professor Tychonievich was always excited, warm, and welcoming to all of his students. He was accepting of all backgrouds and I wish I could have met him in person!
During real–time lectures, professor was very good about listening to student's questions or ideas. You could tell the professor cared about his students and wanted them to do well.
Prof. Tychonievich had group projects that for me, was a way to talk about the course with different students that I otherwise would not have met. It was very helpful in an online semester and I appreciated being able to talk about the project problems without being overly worried about grades.
none specifically
It was a math class without much discussion. There aren't many diverse perspectives that exist.
Everyone was open to speak, no preference was given and all thoughts were welcome.
He very open to students' thoughts during lectures and was adamant that people interrupt him if they had any confusion.
Prof. Tychonievich clearly stated at the beginning of the semester to respect everyone and not to judge people for asking questions. He mentioned there is professionalism expected from every student.
Luther Tychonievich created an environment that respected difference and welcomed diverse perspectives as he was always open to different ways of approaching problems.
Very kind and inclusive, always looking to get people learning and involved
There was never a time that Professor Tychonievich was disrespectful or non–inclusive to other people/perspectives.
The instructor seemed very personable and was open to answering all questions and engaging with students during the class. He was welcome to students giving him feedback on how to do problems during instruction.
If any question was asked, he would do his best to answer in a way that made sense to the student. If someone was still confused, he would deviate from his lesson plans to provide additional examples to help the student understand that concept.
He would answer everyones questions as time permitted
The professor was always willing to hear any question and always stopped multiple times during lectures to ask for different feedback, what we thought, and what we had a hard time with.
He left time during each class for questions and encouraged everyone to participate.

Instructor Comments

What constructive suggestions do you have to help Luther Tychonievich improve this course for future students?

Comments
If you can, try not to go all over the board to random places with space when going through example problems because it makes it harder to follow. It would be easier to go left to right and top to bottom.
I honestly have no suggestions for this professor! He was an effective teacher and he structured his course very effectively. I think everything he is perfect the way it is.
I don't have any suggestions, I thought the course was perfectly constructed by Professor Tychonievich.
Overall this was a great course. I found the lectures to be really helpful, but sometimes I found it hard to take notes/follow along because of the shorthand notation/skipping of intermediate steps on the digital whiteboard.
I love everything about this course. The practice quizzes were especially helpful.
The only request I would have as a student in this class in future years is for every practice question to have an answer on the website. There were always some questions that weren't explained and I never felt like I figured out the answer to them, so for future years it would probably be beneficial to the students to have all of them written out.
I think the current format of the course works well.
N/A
honestly i didn't go to any of your lectures but i was able to learn most of the content during the quizzes anyway! I'm sure your class was useful for students who didn't already have a grasp on the material. The lectures i did attend were entertaining though, you're a very engaging lecturer
Being in person would have been better but he had no control over that.
I kind of disliked the way the final grade is calculated, but it is reasonable I guess.
The grading system can be confusing for many people, but I thought it was interesting.
I don't have any ideas on how to improve the class. Maybe alter the grading scheme because one module can really hurt your entire grade.
I found group projects to be slightly less helpful towards my learning, and I sometimes found parts that incorporated more code than usual to be confusing as we didn't focus as much on programming in class. However, I found discussions with classmates during group projects to still be helpful.
Could you by chance make the posted slide a little better? Sometimes the slides would cut off in weird places in the uploaded versions. Other than that, thank you for actually sounding excited to be teaching. The "Alright, good morning everyone" was always very consistent and cheerful, which was fun (in addition to the beginning of class drawings.
Overall, I think that this was a great class! At first I was confused by the grading scale, but I think it ended up working to my advantage. If I were to comment on one super small thing, it would be that when taking quizzes, if you clicked on the same line as an answer choice, even if your cursor was all the way to the right of the screen, it would select that answer. This always made me nervous when I was checking over automated quizzes because I didn't want to unknowingly change my answers.
Keep doing what you're doing! Love you art and your incredible energy. Keep it up!!!
If I'm being completely honest, I feel like I liked this class more online than I would have in person. I love all the write–ups and practice questions that let you fully master the information, and the class environment was really conducive for me to learn. I actually ended the class with a 100%, so I don't know if the grading scale needs tweaking or I just did really well in that last module. I think the auto–graded quizzes were way more difficult than the paper quizzes, and I know that it's by design, but I still wasn't really a fan of question like "where is the error in the proof" just because there wasn't much practice or discussion about troubleshooting wrong proof. Anyways, I liked the class, and the only thing I would recommend is to consider teaching online again, because this has been by far the most enjoyable online class I've taken. Thanks!
One constructive suggestion is to reconsider the current grading system. Some individuals prefer the average grading method, over the current grading system right now.
I think the grading scale was a bit confusing and weird, even though it ended up helping me out. Besides that, it was a very well organized class and I thoroughly enjoyed it.
Spend more time perfecting the quizzes so questions don't have to be dropped, but other than that minor inconvenience, it was a great course.
I liked the off–collab format of having everything accessible on one site, it helped with keeping track of the class immensely.
For the future, I think you should stress the importance of attending class.

Comments
Professor really does a great job teaching this class. The class is structured very well and the objectives are clear. My main suggestion would be to continue to ensure that questions on the quizzes reflect the material presented during lecture and do not feel completely out of the ordinary.
Please go more in–depth with proof by contradiction because that is the hardest proof technique in my opinion
Great lectures made this class that could be fairly dry really engaging. Thanks for a great semester.
The grading system was a little confusing, but other than that I thought this course was really interesting and very well run!
More structure during the lesson would be helpful, I had trouble following the drawings sometimes.
make the quizzes have a larger period of time to be completed in
I know I should be thankful that the finals were optional make ups but I think I might have retained more information if they had been normal. For many topics, as long as I learned it well enough for Friday's quiz, I was done with it for the semester. Long term retention was not necessarily incentivized.
Thank you for teaching me this semester Professor! I appreciated how enthusiastic and energetic you were in each class period and worked hard to teach us in this new environment. One constructive suggestion I would have is with regards to the lecture recording quality. As the students' voices and faces as removed for privacy, at times when you would respond to a question I would depend highly on context clues to interpret the question. If you would be able to repeat back the question that would be helpful. Thank you! Have a nice summer!
The only negative experience I had in this course was when I was given a 70% on a paper quiz I felt I deserved a 100% on. Fortunately, the quiz was correctly regraded promptly, but it would have been quite unfortunate if I hadn't submitted the regrade request. This may not be something within your control, but I just wanted to mention it (if it was a TA error, perhaps only TAs who feel extremely comfortable with the content should grade such assignments). Apart from that, I thoroughly enjoyed your class; your instruction of the course content was clear and effective, and your genuineness, energy, and enthusiasm all made learning from you a wonderful experience.
I would say that towards the end it could be helpful to have more practice problems for the logarithms, which is a really small thing but could have been helpful for me. I really enjoyed this course and its structure though!
I did appreciate how nice the instructor was as well as how welcoming he was to answer questions during class. I also liked how TAs were available pretty much all throughout the day. However, I did not enjoy this class. I didn't understand how the concepts connected to other CS concepts. I think that if the connection was demonstrated a lot clearer, that would help students understand why this course is a prerequisite for the CS major/minor. Also, the way that I performed on quizzes was very scattered – some quizzes I got an 100% on while others I failed. It seemed like my understanding of this course constantly fluctuated. Also, I felt like many of the quiz questions were very different from what we did in class. I think that performance on the quizzes would improve if the questions assessed topics that were more similar to what we'd done in class, especially because logic is a brand new topic for some people. I also did not understand the grading system and how it would benefit students. Perhaps a clearer explanation about how the grading system works and why it's being used compared to more traditional grading systems would be helpful. Lastly, I decided to drop my CS minor because of this class. This class was so challenging and made me realize that I did not want to pursue CS if I had to do stuff like this. I'm not sure if this was a universal experience or not. I think if there was more confidence boosting and support from instructors then maybe I would've felt more confidence and less stress in this class and would've wanted to continue my CS minor.
Honestly, I have no suggestions to improve the course. I enjoyed the way it was taught, and I believe all the things we did in class/every opportunity we had greatly aided in my learning and understanding of the material.
None
He could make homework assignments that receive a grade as well. I think this would be practical to replace the group work, since I did not find the group work very helpful.
You are a really effective teacher, but the course material was just not that engaging to me. However, I understand that the CS curriculum is going to be restructured, so hopefully that future class will be more engaging.
I really enjoyed this course and I don't think there is anything I would change about it. I loved the professor's bright personality for every lecture and hope that he/she will continue to carry this optimistic teaching style.