

CAS MA 541 A1 - Modern Algebra 1

Juanita Duque Rosero

Fall 2024

This course-based report contains an overall summary of scaled questions, as well as more detailed analyses of scaled and open-ended questions.

Response Rate

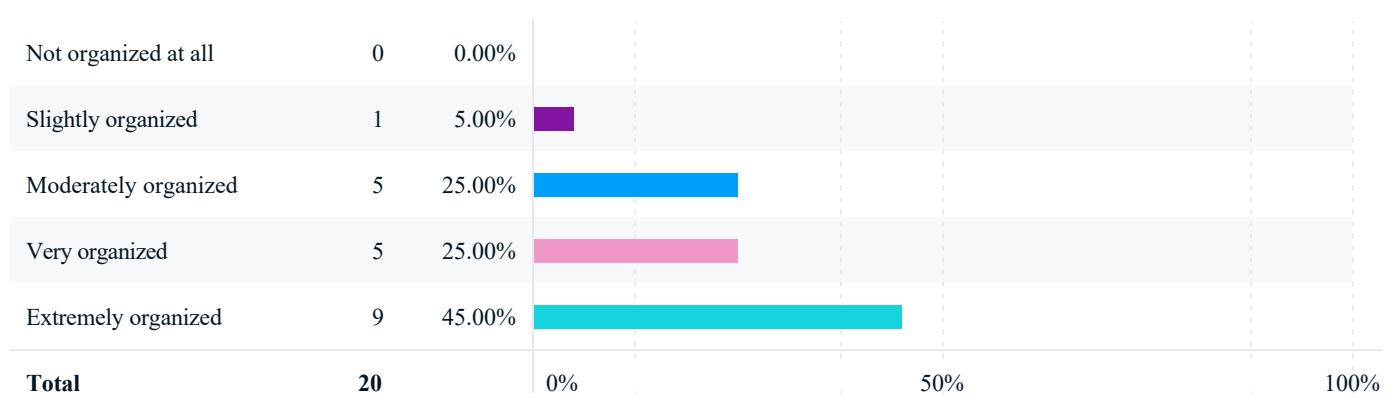
| Raters | Student |
|----------------|---------|
| Responded | 20 |
| Invited | 32 |
| Response Ratio | 62.5% |

Summary

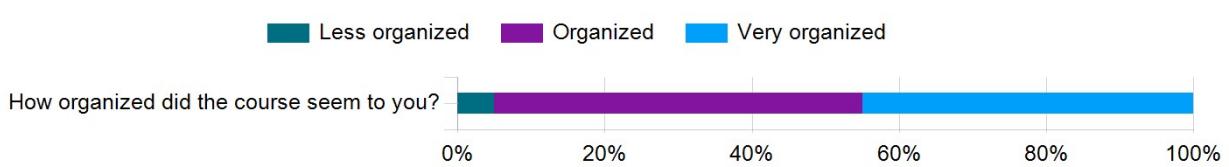
| Competency | Average |
|--|---------|
| How organized did the course seem to you? | 4.10 |
| How well were the course learning objectives communicated? | 4.25 |
| How well did the course fulfill its stated learning objectives? | 4.30 |
| How much did you learn from this course? | 4.35 |
| How well did the course foster a sense of belonging and an inclusive climate that was supportive of learning for all students? | 4.10 |
| Total Score | 4.22 |

How organized did the course seem to you?

How organized did the course seem to you?

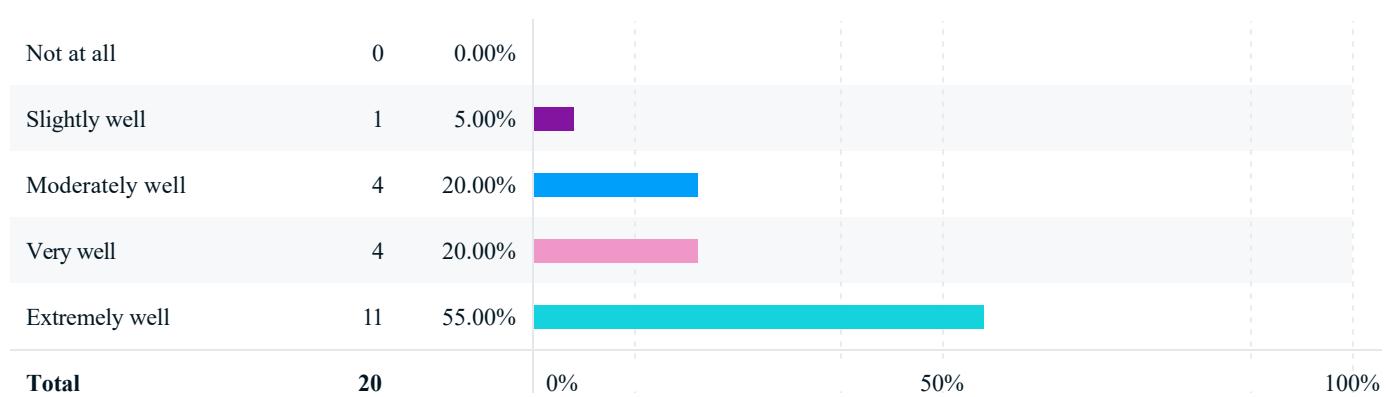


| Statistics | Value |
|--------------------|-------|
| Response Count | 20 |
| Mean | 4.10 |
| Median | 4.00 |
| Mode | 5 |
| Standard Deviation | 0.97 |

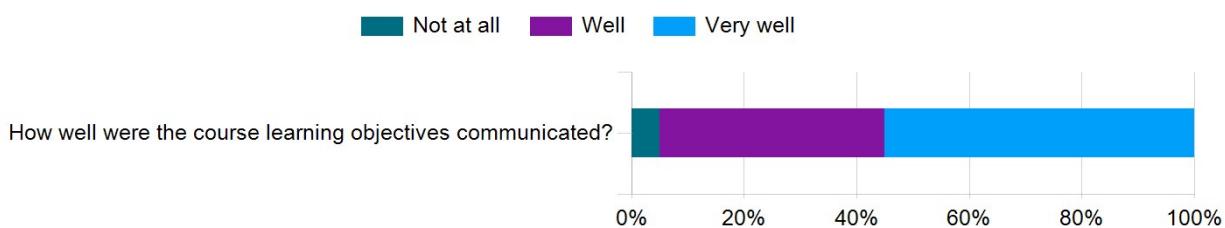


How well were the course learning objectives communicated?

How well were the course learning objectives communicated?

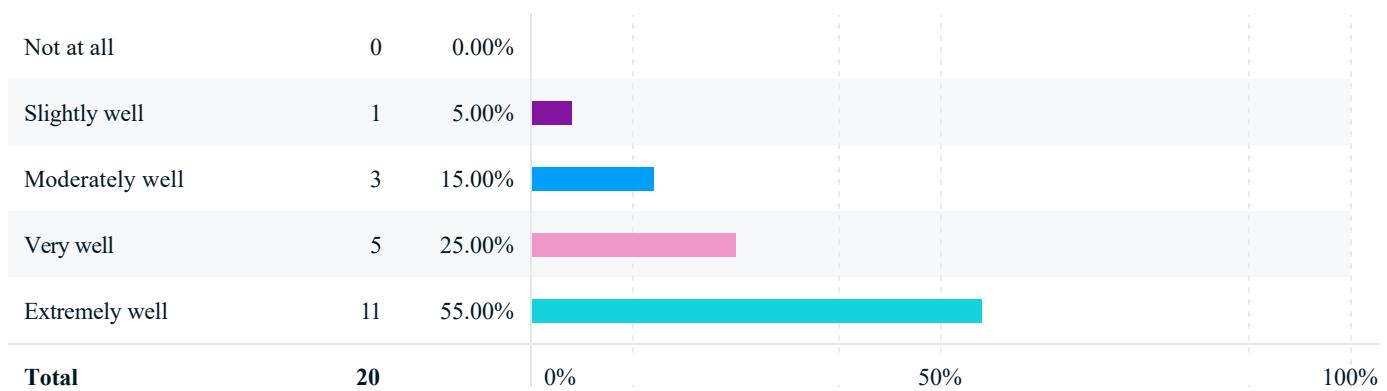


| Statistics | Value |
|--------------------|-------|
| Response Count | 20 |
| Mean | 4.25 |
| Median | 5.00 |
| Mode | 5 |
| Standard Deviation | 0.97 |

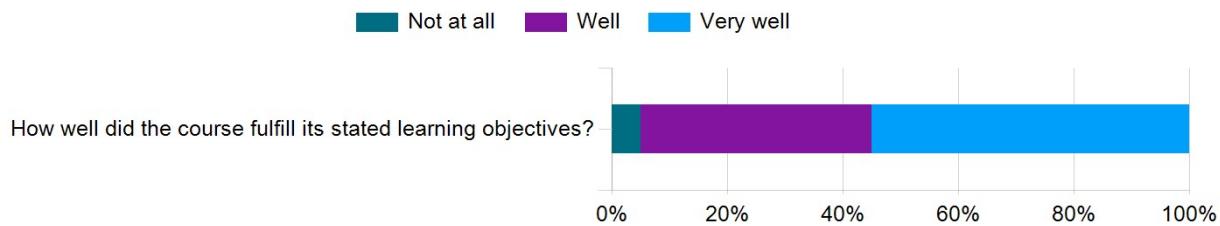


How well did the course fulfill its stated learning objectives?

How well did the course fulfill its stated learning objectives?

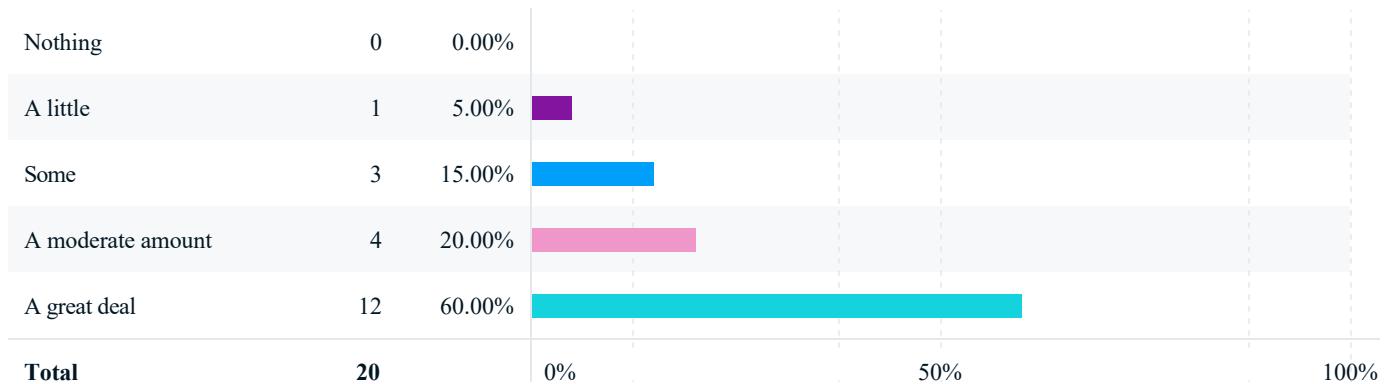


| Statistics | Value |
|--------------------|-------|
| Response Count | 20 |
| Mean | 4.30 |
| Median | 5.00 |
| Mode | 5 |
| Standard Deviation | 0.92 |

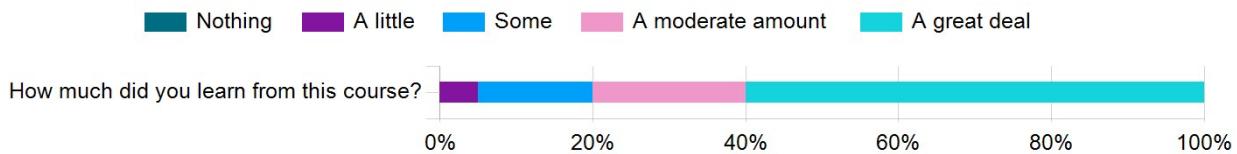


How much did you learn from this course?

How much did you learn from this course?



| Statistics | Value |
|--------------------|-------|
| Response Count | 20 |
| Mean | 4.35 |
| Median | 5.00 |
| Mode | 5 |
| Standard Deviation | 0.93 |



Please explain your response.

Comments

The class was excessively fast and I feel as if the class was too ambitious in the material that it covered at times. However, it was a good class and I learned a lot.

Since I did some group theory before, this course really helped me remember everything and also go deeper (like Sylow, rings, group actions) and I liked it a lot; I really like abstract algebra

I learn best by doing examples that are directly relevant to the homework problems or other practice. I found a lot of concepts to be unintuitive, so I would've liked for more motivation for the ideas to become more intuitive. I also would've liked to see more proofs done in class. An example of this would be when to apply the division algorithm, or when to use certain theorems. I feel like for some homework problems, it isn't clear to me which theorems i should be using, but maybe that just comes with more practice.

learning modern algebra. I should more time.

I think this was a well taught course. One thing that I felt was that if students who performed badly on the midterm were given a chance to replace their midterm score with the final, then students who performed well on the first midterm should also have gotten the chance to count the midterm score towards their final. Just a thought.

she is genuinely passionate about teaching, very organized, always on time, helpful when answering questions— she always assumes the best intentions and tries to understand what students are really asking about (many times we did not make much sense).

After this course, I feel like I have a very strong grasp of group theory and am competent in very basic ring theory. I don't know what else to say here, I learned what I was supposed to learn.

All good.

Make her permanent faculty.

Professor is great, explains and communicates ideas with clarity, and helps when needed.

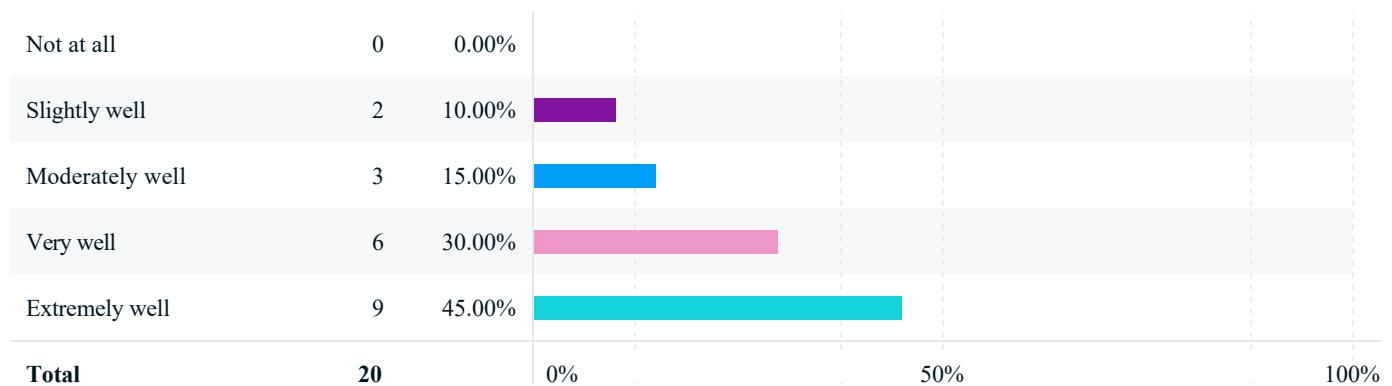
Professor Rosero was very organized.

What were the most valuable aspects of the course?

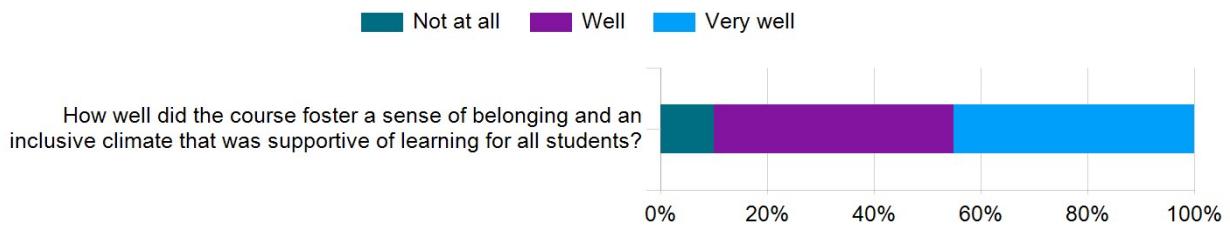
| Comments |
|---|
| Learning algebra |
| learning modern algebra |
| I think the textbook assigned was really helpful. Your lectures were very insightful and well balanced. Most importantly, your OH were invaluable. You were very patient and open to discussion. It made a huge impact on us. Thank you so much. You made this course very worth the while. |
| I think the problem sets were very useful, because they helped solidify my understanding of the various theorems and definitions that were important throughout the class, and helped me understand how they are generally applied. |
| All good for algebra. |
| The professor being so good. |
| Mathematical rigor as well as learning fundamental definitions and theorems for abstract algebra. |
| For me, learning I didn't actually enjoy pure math. |

How well did the course foster a sense of belonging and an inclusive climate that was supportive of learning for all students?

How well did the course foster a sense of belonging and an inclusive climate that was supportive of learning for all students?



| Statistics | Value |
|--------------------|-------|
| Response Count | 20 |
| Mean | 4.10 |
| Median | 4.00 |
| Mode | 5 |
| Standard Deviation | 1.02 |



If you have additional comments about this course, please provide them below.

| Comments |
|---|
| The class focused too much on basic symmetries, I think we could've spent less time there and more time on the difficult later group theory. |
| Professor is passionate |
| I didn't attend nearly all of the classes, but not because of Professor Rosero, or the class. I simply didn't enjoy the material, but Professor Rosero was fantastic. |

What skills or knowledge did you learn or improve in this course?

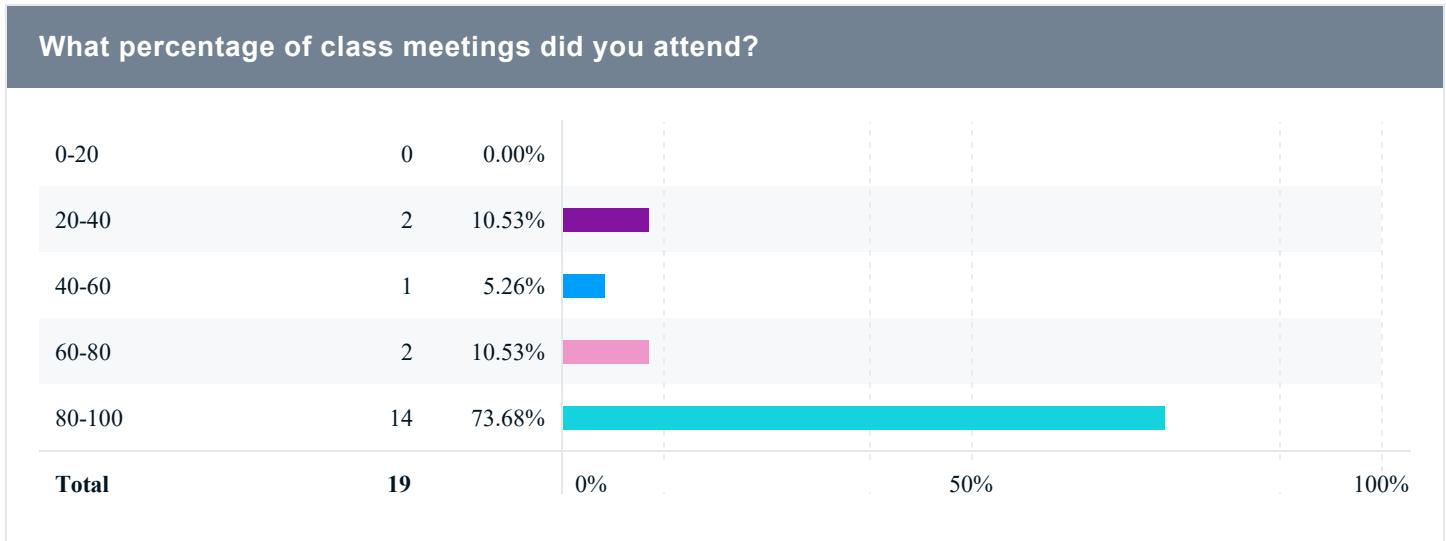
| Comments |
|---|
| Algebra |
| Better proof-writing |
| Proofs |
| learning modern algebra |
| Modern Algebra |
| I learned about group theory, including classification of various types of groups such as finite abelian groups, important theorems such as Lagrange's theorem or Sylow's theorem, and methods to apply these theorems in the study of groups and problems related to groups. I also learned some basic ring theory, and can prove basic statements concerning rings, which will make me more prepared for MA542. |
| All good |
| Algebraic ideas from symmetries to importance of primality |
| Proofs |

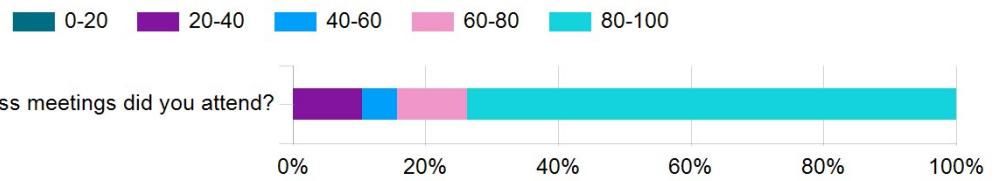
What advice would you give to students considering taking this course in the future?

| Comments |
|---|
| Study a lot, and make sure you practice everything |
| KNOW YOUR DEFINITIONS !!!! |
| spend more time on reading |
| Read the textbook and go to OH. |
| Remember your definitions. A lot of things can be proven with just the definitions and just one or two important theorems, and as long as you remember them, you should be able to prove a lot of the homework and exam problems. |
| All good |
| If you want to take one upper-level math course to learn the true essence of math, take this one. |
| Don't make the mistake of not going to lecture like I did |

Student effort

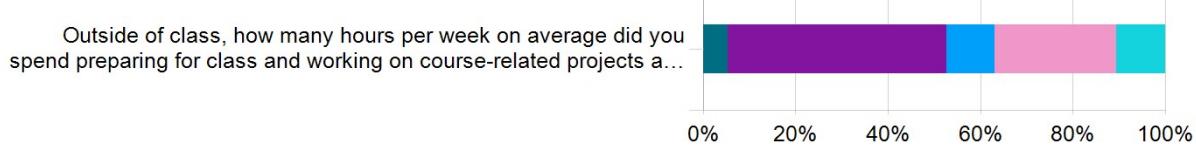
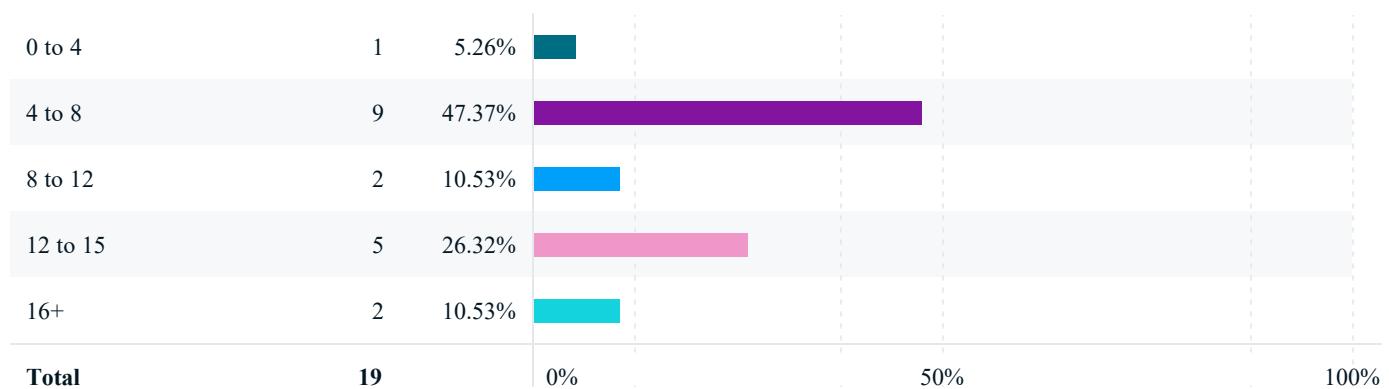
What percentage of class meetings did you attend?





Outside of class, how many hours per week on average did you spend preparing for class and working on course-related projects and assignments?

Outside of class, how many hours per week on average did you spend preparing for class and working on course-related projects and assignments?



CAS MA 433 A1: Graph Theory

Juanita Duque Rosero

Spring 2024

This course-based report contains an overall summary of scaled questions, as well as more detailed analyses of scaled and open-ended questions.

Response Rate

| Raters | Student |
|----------------|---------|
| Responded | 6 |
| Invited | 20 |
| Response Ratio | 30% |

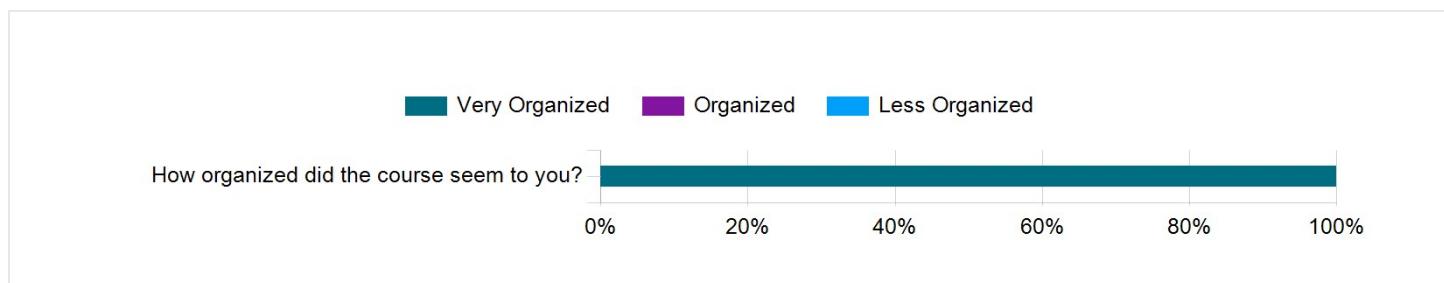
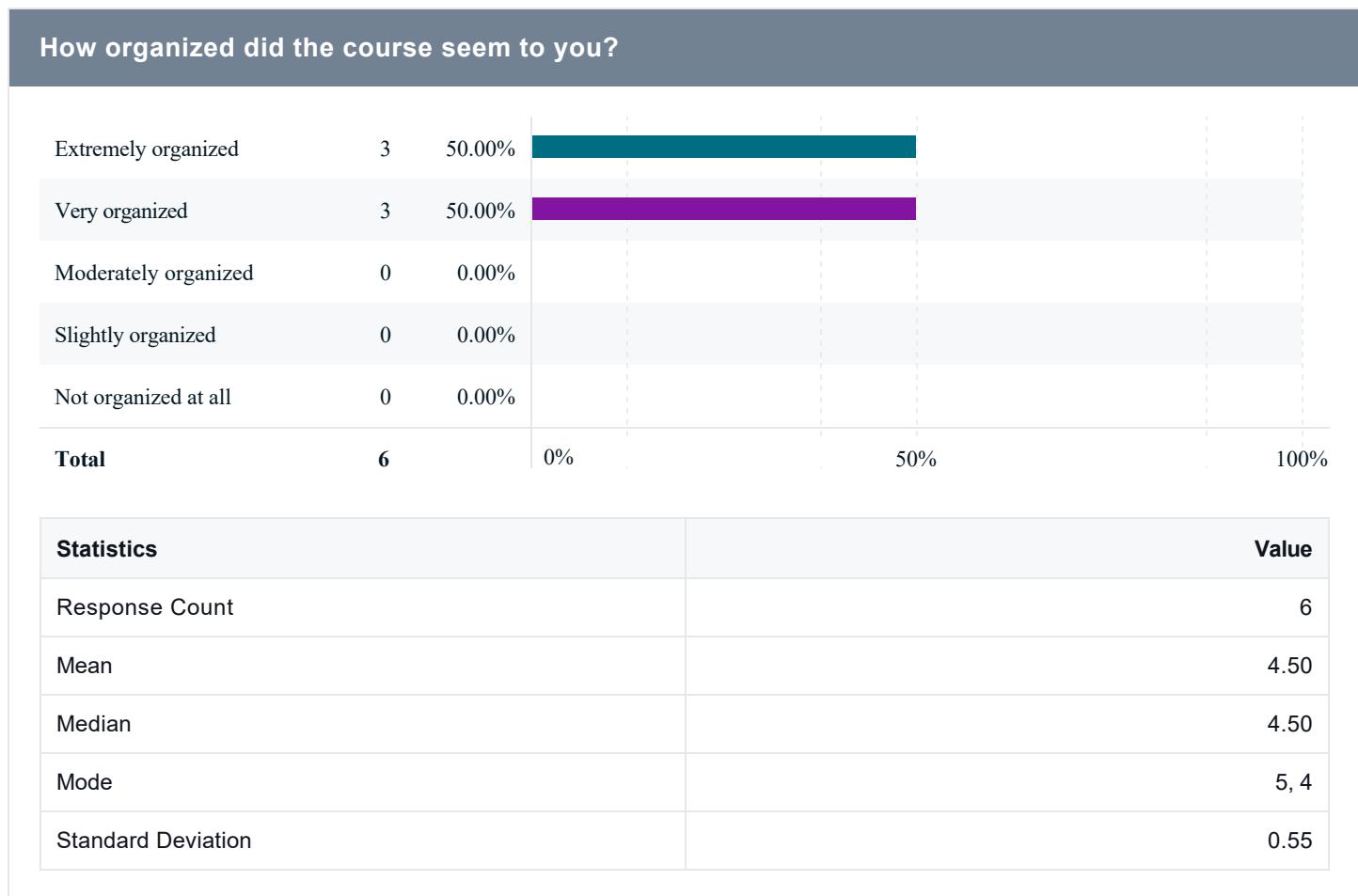
Summary

| Competency | Average |
|--|---------|
| How organized did the course seem to you? | 4.50 |
| How well were the course learning objectives communicated? | 4.50 |
| How well did the course fulfill its stated learning objectives? | 4.83 |
| How much did you learn from this course? | 5.00 |
| How well did the course foster a sense of belonging and an inclusive climate that was supportive of learning for all students? | 4.50 |
| Total Score | 4.67 |

University-Wide Student Course Feedback

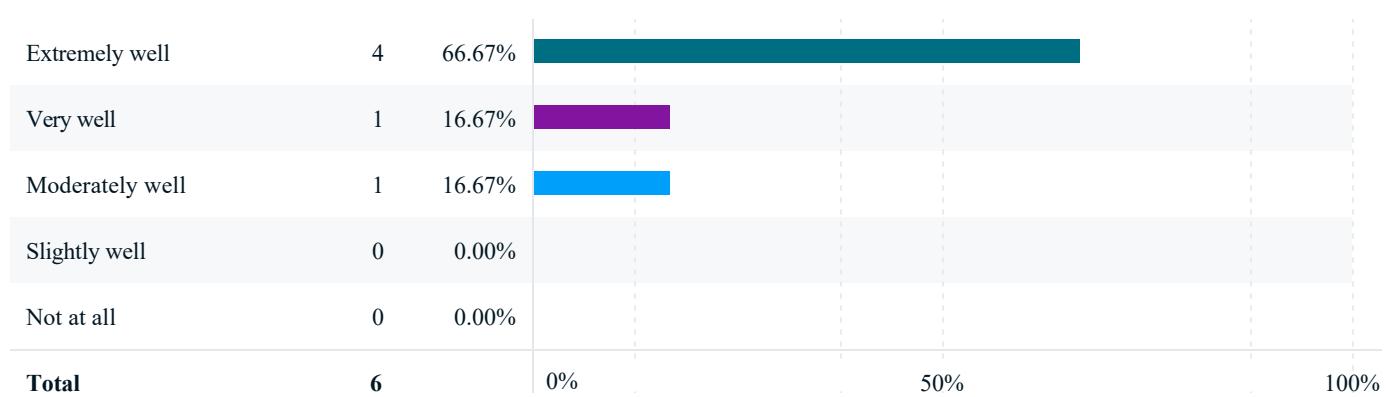
Course Content and Instruction

How organized did the course seem to you?

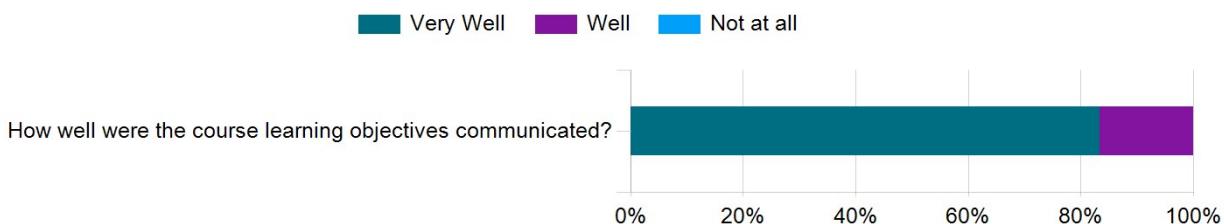


How well were the course learning objectives communicated?

How well were the course learning objectives communicated?

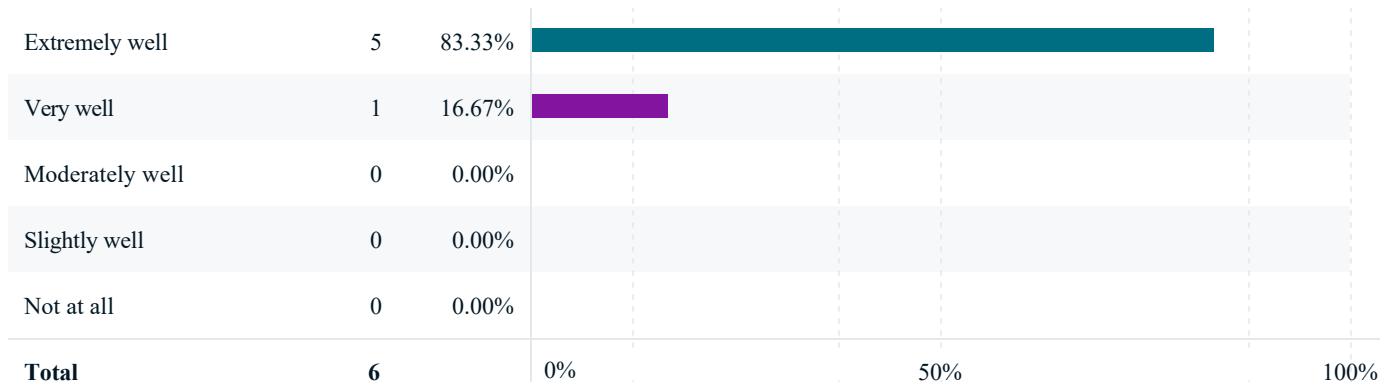


| Statistics | Value |
|--------------------|-------|
| Response Count | 6 |
| Mean | 4.50 |
| Median | 5.00 |
| Mode | 5 |
| Standard Deviation | 0.84 |

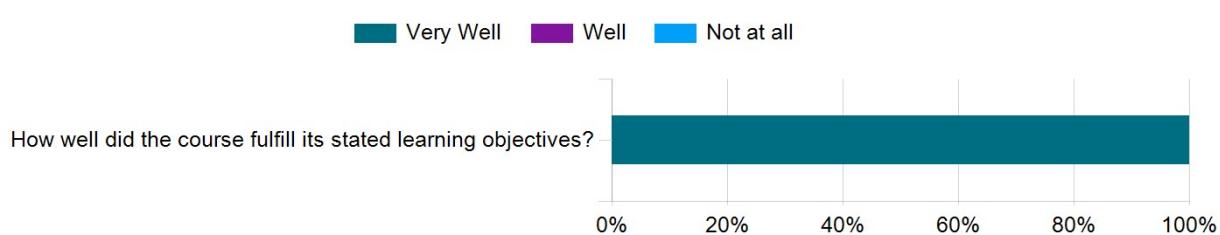


How well did the course fulfill its stated learning objectives?

How well did the course fulfill its stated learning objectives?



| Statistics | Value |
|--------------------|-------|
| Response Count | 6 |
| Mean | 4.83 |
| Median | 5.00 |
| Mode | 5 |
| Standard Deviation | 0.41 |

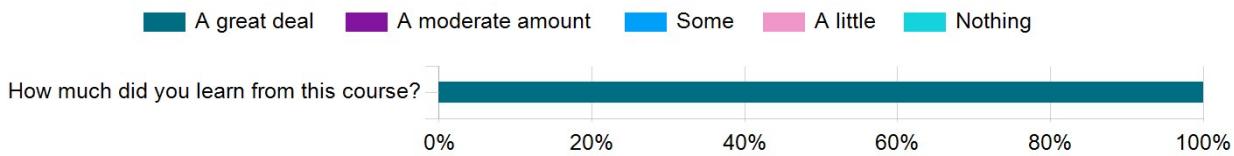


How much did you learn from this course?

How much did you learn from this course?

| | | | |
|-------------------|----------|---------|--|
| A great deal | 6 | 100.00% |  |
| A moderate amount | 0 | 0.00% | |
| Some | 0 | 0.00% | |
| A little | 0 | 0.00% | |
| Nothing | 0 | 0.00% | |
| Total | 6 | 0% | 50% 100% |

| Statistics | Value |
|--------------------|-------|
| Response Count | 6 |
| Mean | 5.00 |
| Median | 5.00 |
| Mode | 5 |
| Standard Deviation | 0.00 |



Please explain your response.

Comments

We covered so much knowledge which is new for me.

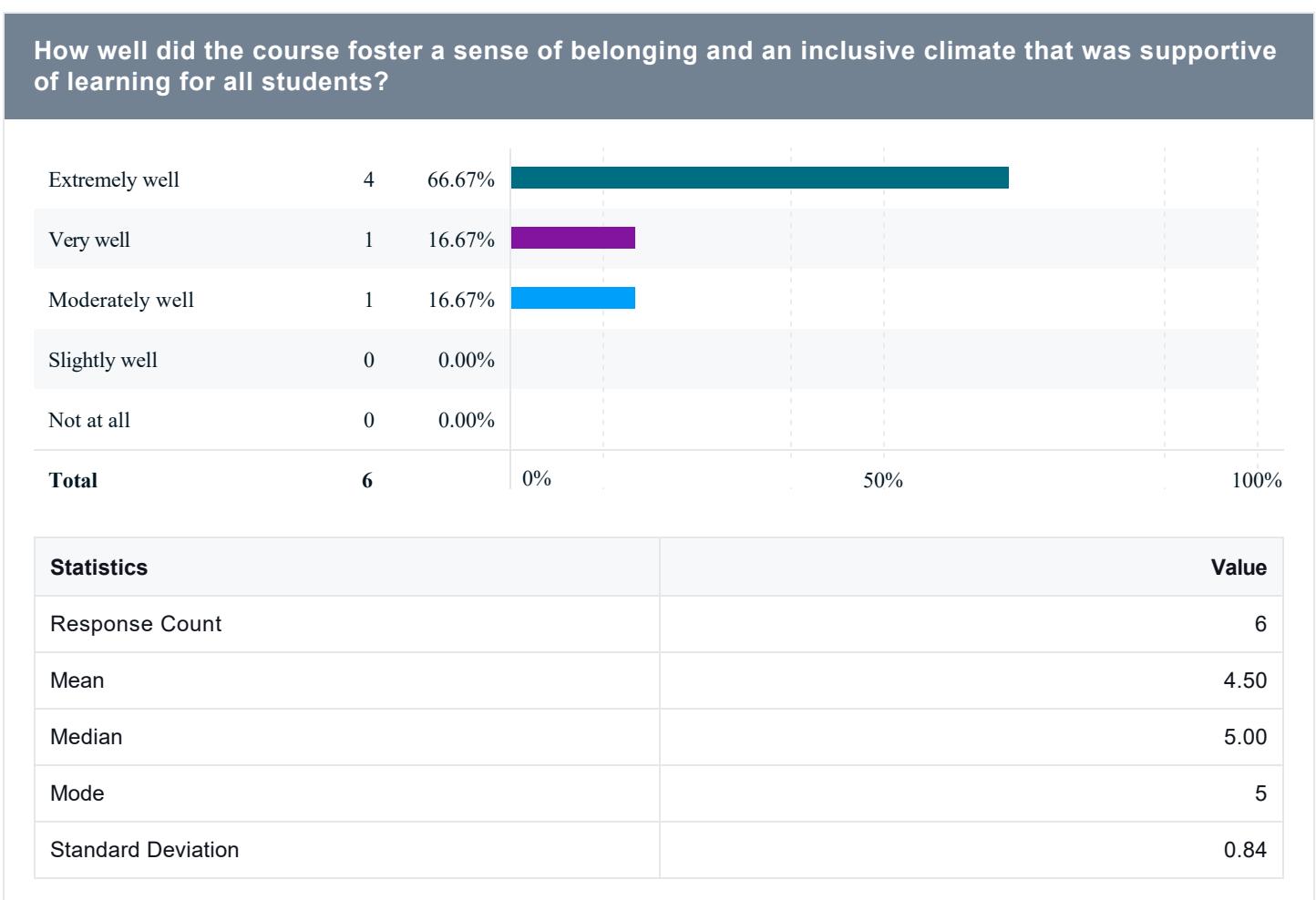
Professor is knowledgeable and prepared.

It was an amazing course from start to end. The professor was well prepared for each course, and she was always helpful in the class and outside of the class to my questions.

What were the most valuable aspects of the course?

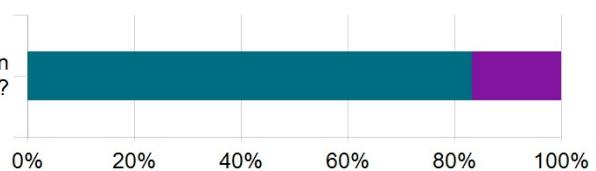
| Comments |
|--|
| The most valuable aspects of the course is the final project. We could learn a lot from exploring new topics. |
| I think it's difficult for me to write a formal mathematical proof, but Juanita gives me confidence, and help me to improve that step by step. |
| Well-selected problems on the homework. |
| In the class we touched many aspects of graph theory, and even right now when I see a problem from computer science for economics related to graph theory, my understanding of that problem increased enormously thanks to this class, |

How well did the course foster a sense of belonging and an inclusive climate that was supportive of learning for all students?



Very Well Well Not at all

How well did the course foster a sense of belonging and an inclusive climate that was supportive of learning for all students?



Additional Feedback

If you have additional comments about this course, please provide them below.

Comments

The professor provided a very manageable introduction into Graph Theory!
Even if the students are unfamiliar with logic and proofs in formal math, they should still consider taking this course, since the professor specifically made sure that the class was accessible to everyone!
It was very awesome, and the exam (one midterm) was very fair!

Student learning

What skills or knowledge did you learn or improve in this course?

Comments

Graph theory and expand to some interesting mathematical term.

General familiarity with combinatorial and algorithmic thinking. Lots of collaboration and bouncing ideas off of one another.

We analysed graphs in several different aspects, my knowledge of graph theory significantly improved after this class, also my skill of constructing mathematical proofs improved a lot after this course

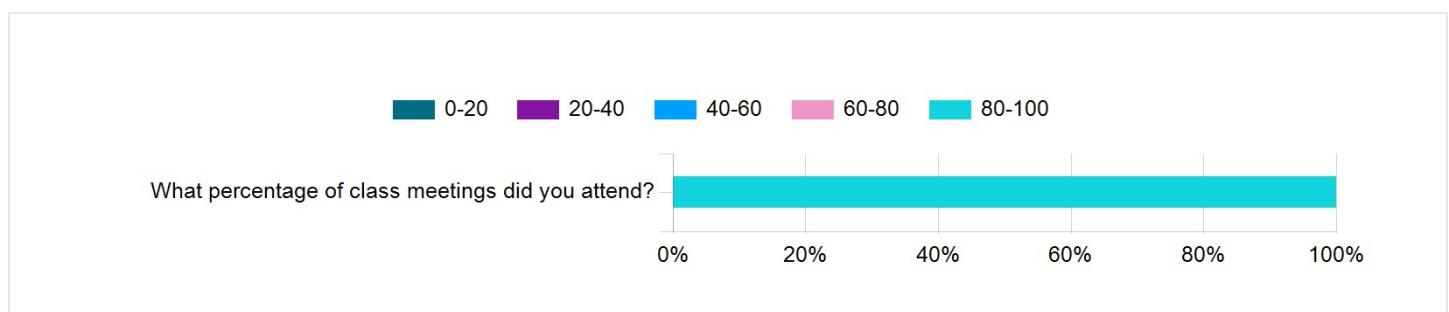
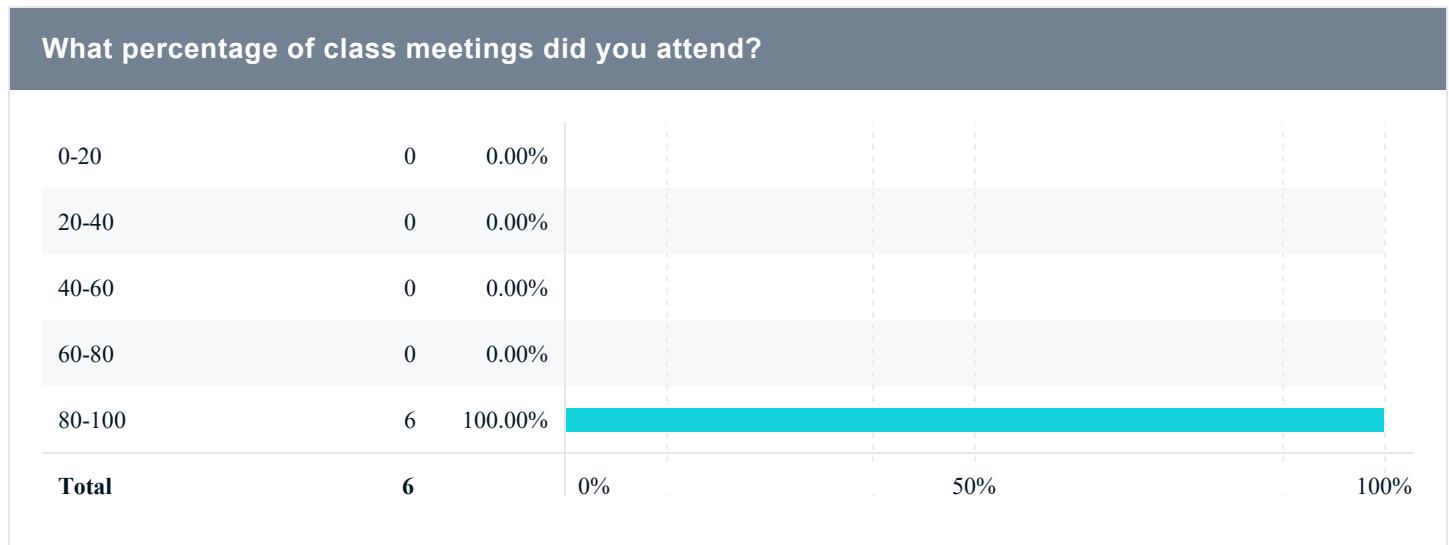
For Students

What advice would you give to students considering taking this course in the future?

| Comments |
|--|
| This course is quite difficult. |
| Don't be shy. If you have question, Juanita will help you to discover and give you the best way to solve it. |
| Don't hesitate in asking questions. Also, go to office hours. |
| be ready for a great adventure in the realm of graph theory |

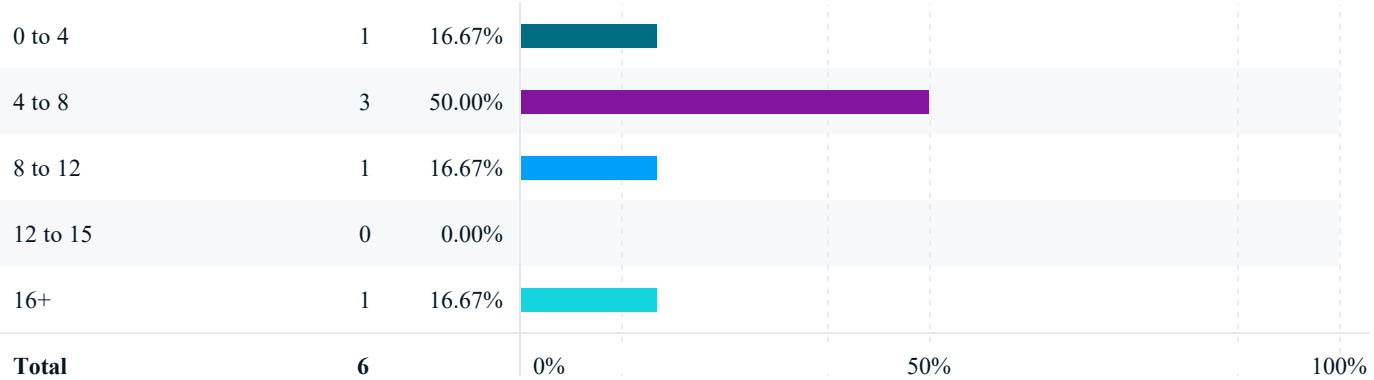
Student effort

What percentage of class meetings did you attend?



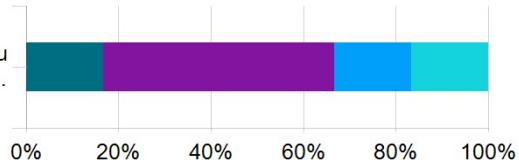
Outside of class, how many hours per week on average did you spend preparing for class and working on course-related projects and assignments?

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■ 0-4 ■ 4-8 ■ 8-12 ■ 12-15 ■ 16+

Outside of class, how many hours per week on average did you spend preparing for class and working on course-related projects a...



CAS MA 242 C1: Linear Algebra

Juanita Duque Rosero

Fall 2023

This course-based report contains an overall summary of scaled questions, as well as more detailed analyses of scaled and open-ended questions.

Response Rate

| Raters | Student |
|----------------|---------|
| Responded | 44 |
| Invited | 111 |
| Response Ratio | 39.64% |

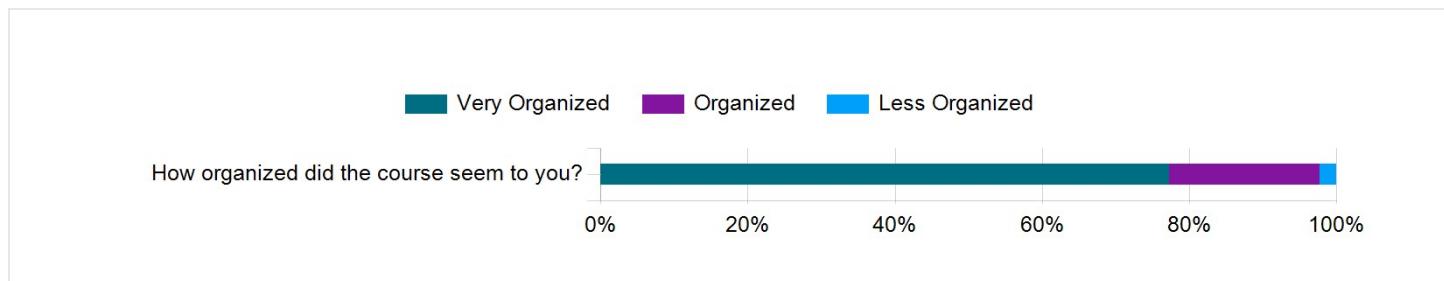
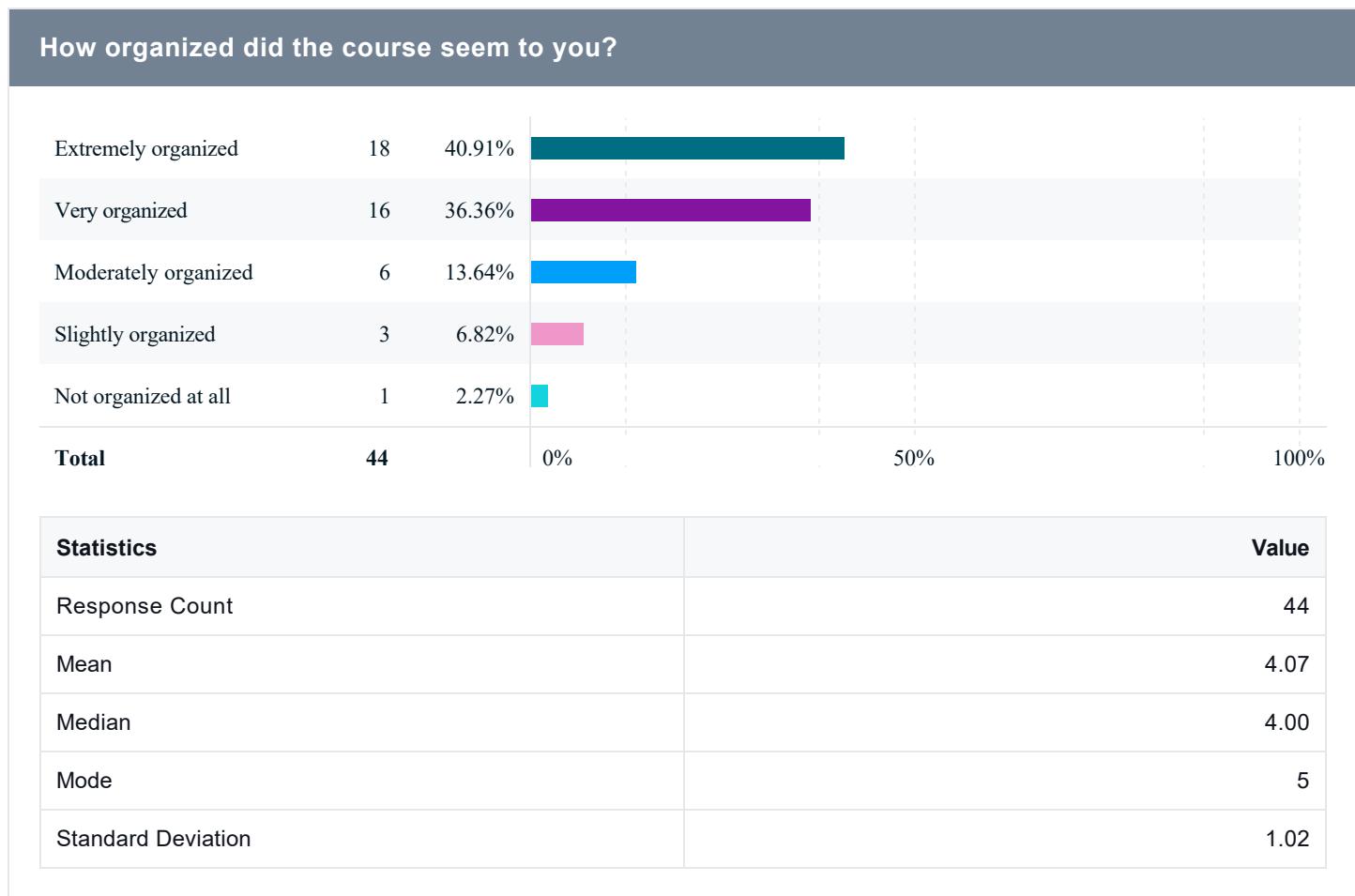
Summary

| Competency | Average |
|--|---------|
| How organized did the course seem to you? | 4.07 |
| How well were the course learning objectives communicated? | 3.93 |
| How well did the course fulfill its stated learning objectives? | 4.02 |
| How much did you learn from this course? | 4.23 |
| How well did the course foster a sense of belonging and an inclusive climate that was supportive of learning for all students? | 4.10 |
| Total Score | 4.07 |

University-Wide Student Course Feedback

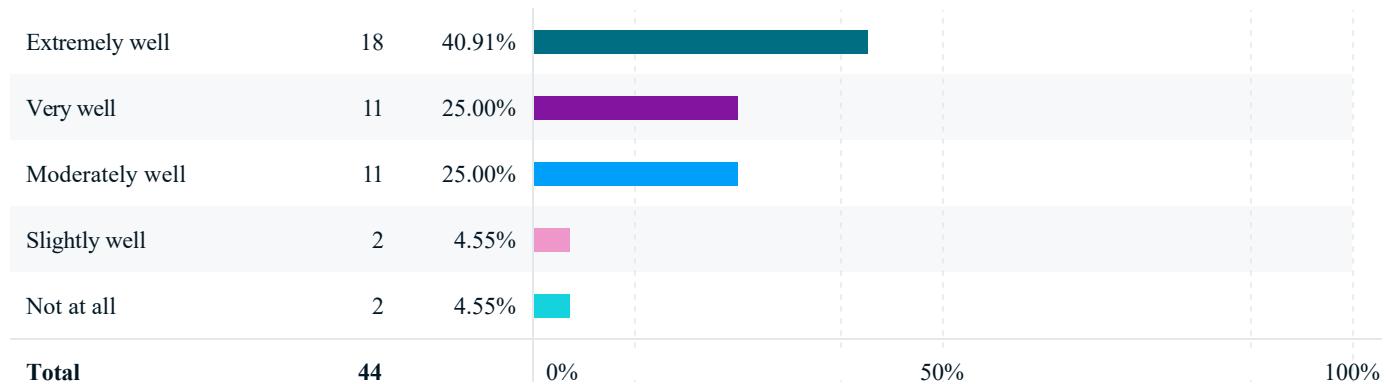
Course Content and Instruction

How organized did the course seem to you?

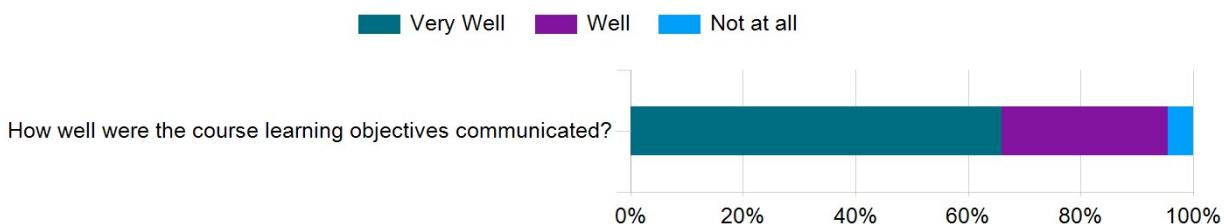


How well were the course learning objectives communicated?

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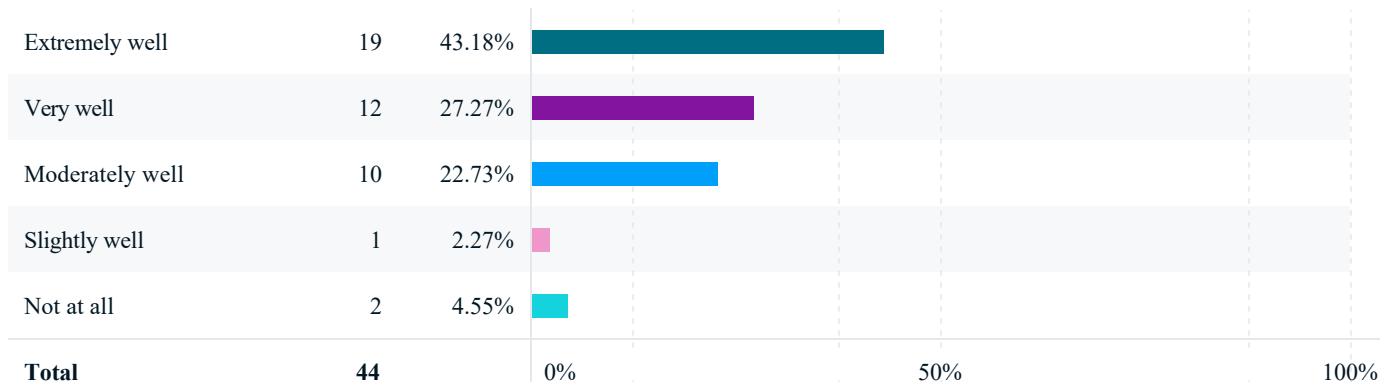


| Statistics | Value |
|--------------------|-------|
| Response Count | 44 |
| Mean | 3.93 |
| Median | 4.00 |
| Mode | 5 |
| Standard Deviation | 1.13 |

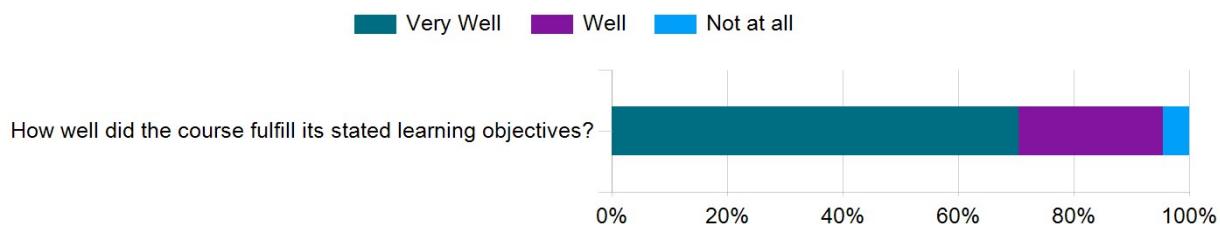


How well did the course fulfill its stated learning objectives?

How well did the course fulfill its stated learning objectives?

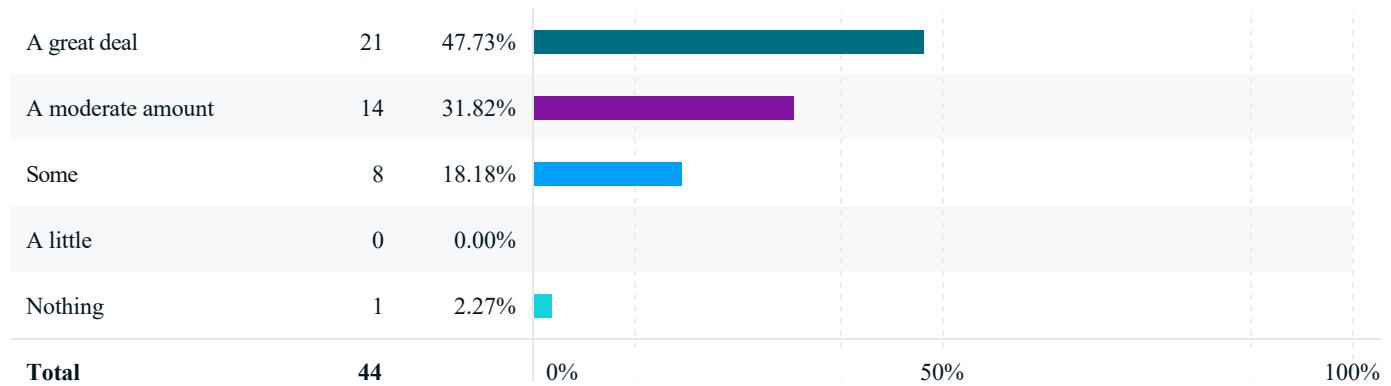


| Statistics | Value |
|--------------------|-------|
| Response Count | 44 |
| Mean | 4.02 |
| Median | 4.00 |
| Mode | 5 |
| Standard Deviation | 1.09 |

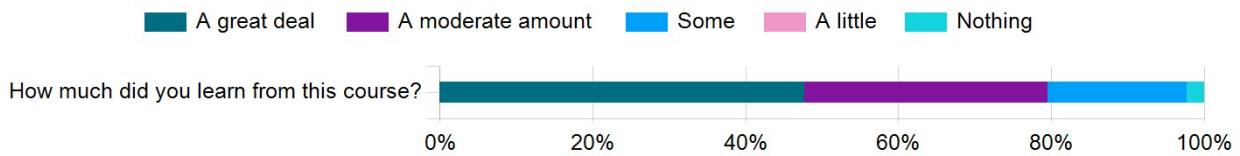


How much did you learn from this course?

How much did you learn from this course?



| Statistics | Value |
|--------------------|-------|
| Response Count | 44 |
| Mean | 4.23 |
| Median | 4.00 |
| Mode | 5 |
| Standard Deviation | 0.91 |



Please explain your response.

Comments

Lecture is a little bit messy, sometimes hard for students to understand materials. Must take a lot of time learn by ourselves after class, but the exams are not that difficult and objectives are clear, so good overall

The course is necessary if you want to learn math well.

The professor started off the semester rough, organization wise. As the semester has progressed she has definitely figured out the best way to teach this class for her.

Good course pace. Easy to understand lectures, if a little sporadic and too slow or too fast at times. Learned a lot but had to supplement lectures with book at times to understand and fully apply concepts correctly.

Assignment amount is a bit low. No quizzes, and the exam grades occupation toward final grade is high. Professor has maintained good communication and course schedules. Lecture notes are helpful.

Prof Duque–Rosero is really helpful and she gives clear and organized lectures. I really appreciated it.

I loved Professor Duque Rosero! She was so, so good at explaining everything in class, and she was such a nice, caring professor. She always answered my questions at office hours, and she always had super relevant examples to share in class. I learned a lot from this class, and I believe that everyone would like linear algebra if they took it with Professor Duque Rosero.

I have never taken a class like this so everything that I have learned has been new to me

I have never taken linear algebra before and was intimidated, but I learned everything I now know.

I do learnt a lot from this course. Prof. Duque Rosero is very knowledgeable and teaches good lecture. But the only problem to me is some of the theorems were not proved during the lecture, which make them look very abstract.

Professor Duque Rosero makes the course really organized and it is a great start point of the linear algebra. There are lots of concepts and theorems in this course. Sometimes I may not able to understand it during class time, so some after-class study and reading are needed.

She is very good at explaining concepts and giving us some examples during class time

The professor felt very nervous and often made mistakes in his calculations. For example, the professor has started to talk about examples, but the professor suddenly finds that there is still a concept to talk about, so he jumps back to the concept. The professor does not care much about the students' scores. For the exam, compared with the same course, our class does not have a curve, while their exam in another section has a curve. It is also very obvious that the number of students in the class has decreased significantly with the two mid-term exams, and many people have dropped or withdrew from this course.

The lectures are well organized and focused.

I was unfamiliar with linear algebra and learned a lot

The course is a rigorous intro to linear algebra.

Good notes

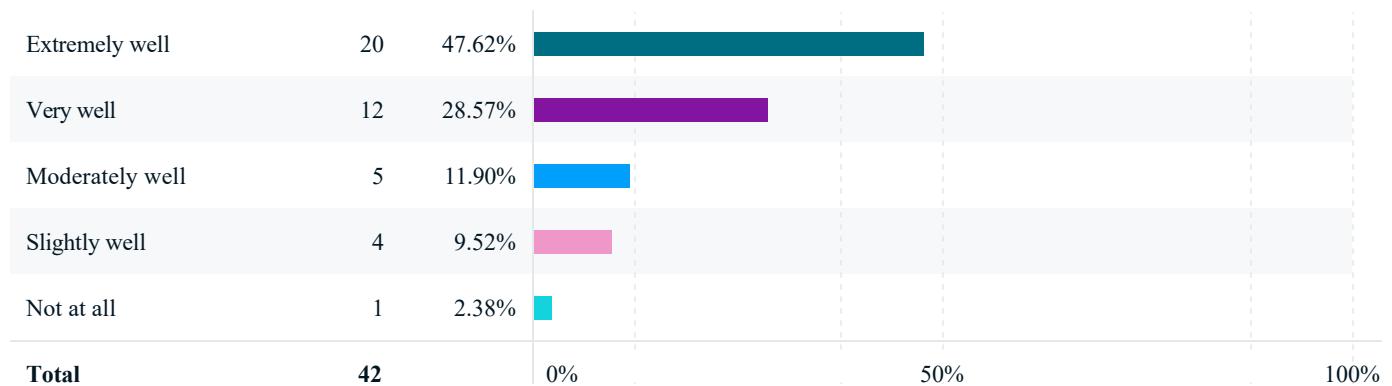
This was my best course this semester. The lectures were absolutely amazing and the lecture notes were the clearest out of any professor I have ever seen. Professor was very approachable and helped everyone understand the material well. Tests were also extremely fair. This is exactly how every single math class should be taught at BU.

What were the most valuable aspects of the course?

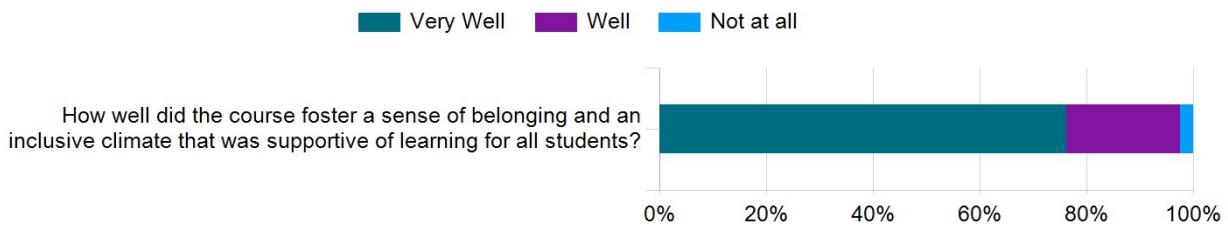
| Comments |
|---|
| The textbook. |
| Good grading criteria and useful practice exams |
| To learn different approaches to solving linear equations. |
| The lectures were extremely valuable, specifically the examples given in class. I think Professore Duque Rosero is very good at explaining the material and all odd cases that come up in linear algebra. |
| I think the homework assigned was a good amount and a good variety of questions chosen in order to practice all aspects of the chapters |
| In class notes being available online were very helpful, and the textbook was another great resource. |
| Went into depth in concepts, gained understanding not just memorization |
| Assignment amount is a bit low. No quizzes, and the exam grades occupation toward final grade is high. Professor has maintained good communication and course schedules. Lecture notes are helpful. |
| I learned a lot about Linear Algebra. |
| The most valuable aspects were probably determinants and dot products as they are used in lots of math outside of linear algebra |
| The ability to ask questions and get them answered thoroughly, the course long outline of lessons distributed through the syllabus. |
| The knowledge of Linear Algebra will be useful for my future study in Maths. I still took this class, although I've got the credit for this course from high school transferred credit. There are indeed many knowledge I did not learn in high school. |
| Professor Duque Rosero has good and clear hand-writing notes, and I also apply the materials from this courses to other related courses. |
| I can learn a lot of maths |
| i don't know |
| Vectors |
| The Prof is very clear and organized about the material and objectives. Could be better if we talk more about the geometric interpretation to help comprehension instead of solely relying on examples and more computations. |
| good notes |

How well did the course foster a sense of belonging and an inclusive climate that was supportive of learning for all students?

How well did the course foster a sense of belonging and an inclusive climate that was supportive of learning for all students?



| Statistics | Value |
|--------------------|-------|
| Response Count | 42 |
| Mean | 4.10 |
| Median | 4.00 |
| Mode | 5 |
| Standard Deviation | 1.10 |



Additional Feedback

If you have additional comments about this course, please provide them below.

| Comments |
|--|
| Good course overall |
| NO |
| Professor had a hard time answering questions and I found myself getting quite frustrated when she wasn't understanding what my classmates or I were asking. It is obviously a learning curve for new professors, but it can get frustrating when trying to complete the course successfully from the student's perspective. |
| My biggest complaint is that professor Duque Rosero basically does not visualize anything at all in this course. I understand that Linear Algebra is hard to visualize because it deals with dimensions that cannot be visualized, but a large part of the course CAN be visualized, and she did not do any of this. I had to turn to online resources to find good visualizations of what I was learning. |
| Weekly assignments are half calculation and half theory (short questions or true–false). Professor should increase the amount the calculation questions, it helps explain the theories. |
| No comments. I really enjoy the class |
| the teaching speed is so fast and the grade is so hard . |
| It might have been helpful to use more visualization like geogebra for higher dimensional vectors |
| nope |

Student learning

What skills or knowledge did you learn or improve in this course?

| Comments |
|--|
| Being about to do outside work to try and build a better understanding of the material. |
| Self-learning skills |
| To learn some important definitions of linear algebra, such as determinants, eigenvalues, and eigenvectors. All these new things will appear in future math courses. |
| Linear algebra topics |
| Understanding of matrices and eigenvalues. |
| Better understanding of matrices and uses, skills improved were studying math and learning how to figure things out on my own |
| Matrix, linear operations and vector space. |
| I gained knowledge of Linear Algebra from 0 at the beginning of the semester to pretty much at the end. |
| I improved my conceptual understanding of many proofs and theorems related to Linearity everything about linear algebra. |
| This is the first time I learn linear algebra, and I get a good insight of it. |
| I learned what is matrix and how to reduce it and a lot |
| a lot, such as determinant, lots of stuff about matrix. |
| All linear algebra skills |
| Doing linear algebra |
| math |
| Not only the course material, but also the skills required for a mathematician such as logical thinking and building strong conceptional connections. |

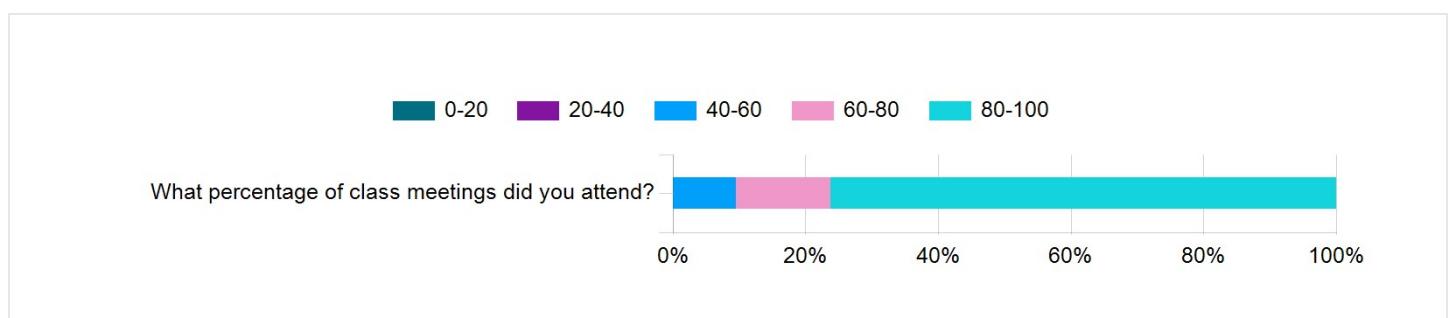
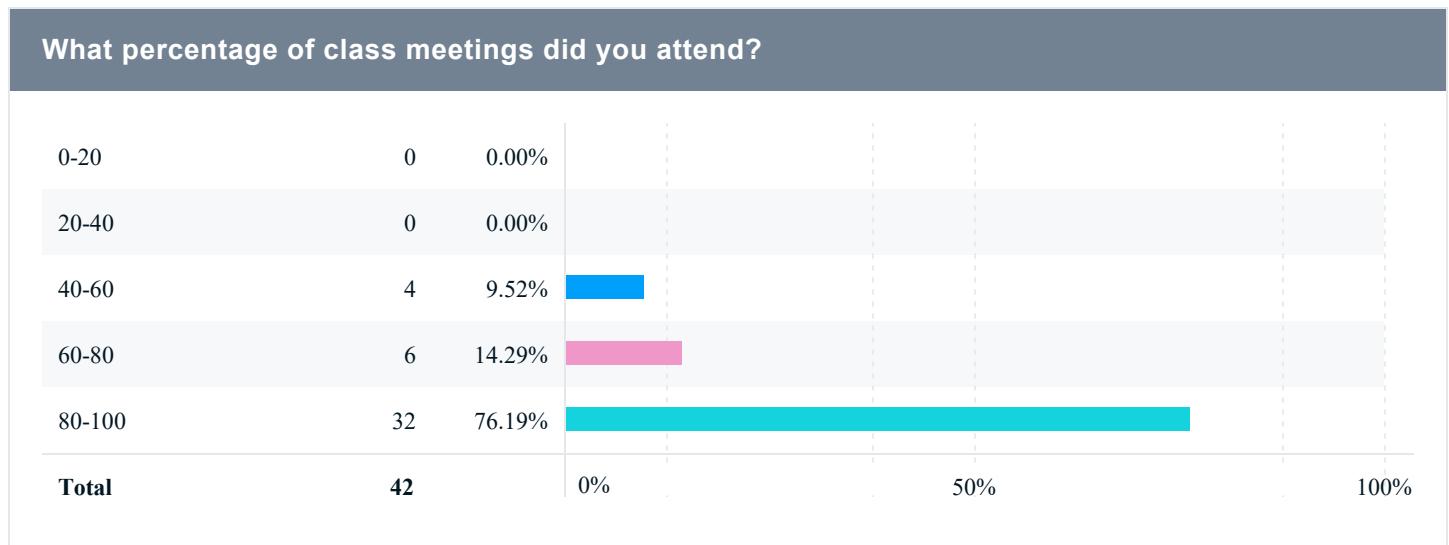
For Students

What advice would you give to students considering taking this course in the future?

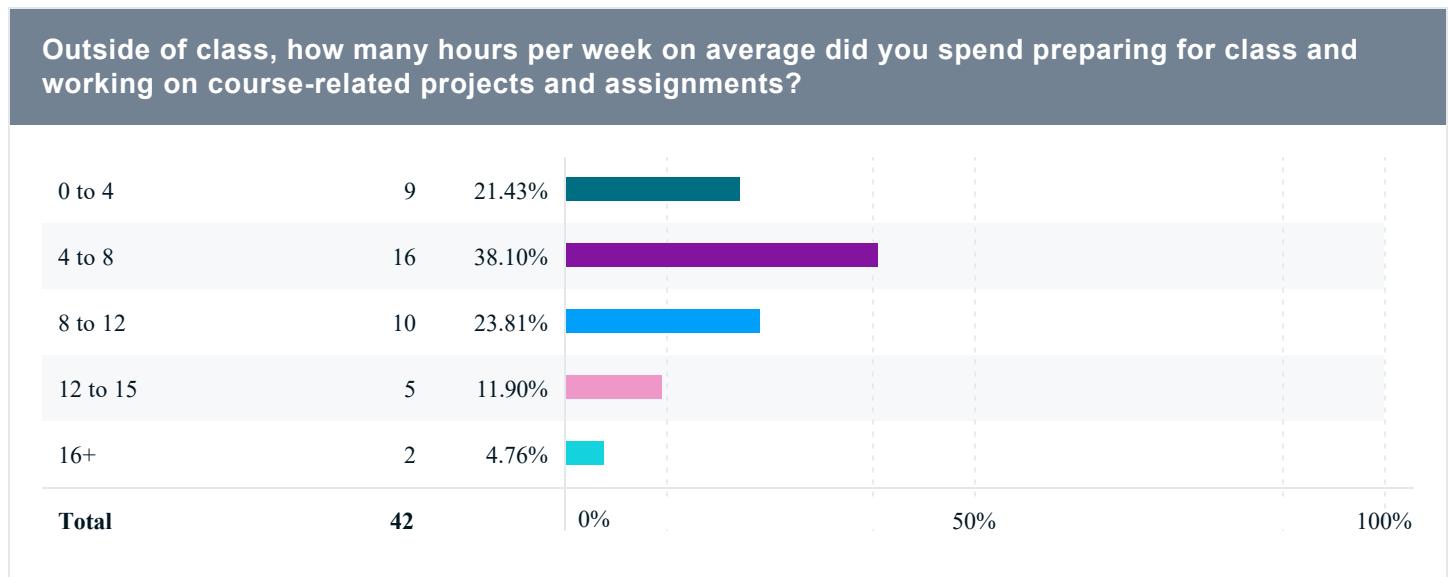
| Comments |
|--|
| Having a physical copy of the textbook is really helpful. |
| If lectures are useless, really pay attention in the discussion section. Must learn by yourself, and take time to understand the hw and practice exam |
| Be careful during the calculation. |
| I would advise future students to make flashcards to memorize theorems and definitions. |
| Just pay attention, if you listen in class or take notes on your own along with doing the homework yourself is key to succeeding. |
| Get ahead on the homework, take limited notes in class, then go back after lecture and go through the in class notes to deepen understanding. |
| Take notes from the book to supplement the lectures. Sometimes lectures don't make sense without more information from the book, teacher goes too fast at some points and skips understanding but will circle back sometimes. Random notes are important, usually part of theorems necessary but not emphasized enough |
| Although I did not, but it would be very helpful to do some problems after mandatory assignments. |
| Come to lectures and ask questions. |
| To not be afraid to go to office hours to clarify and misunderstandings |
| Do the homework and utilize the textbook. |
| Remember and understand all the theorems because they are all related to each other. |
| Just enjoy her class! |
| I don't really recommend this teacher's class. I think what she said was not easy to understand. I spent a lot of time on self-study, but the score I got was not as high as that of the other class curve. |
| It is a great class to take. |
| Go to office hours and lecture but read the book as well |
| Do a lot of practice problems. |
| go to office hours |
| Definitely do take it! And do not worry, you don't need to know some sort of trick to do well in this class. Just do the homeworks on time and study, and you will do great! |

Student effort

What percentage of class meetings did you attend?

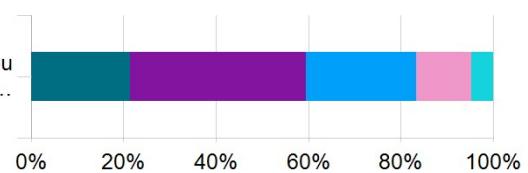


Outside of class, how many hours per week on average did you spend preparing for class and working on course-related projects and assignments?





Outside of class, how many hours per week on average did you spend preparing for class and working on course-related projects a...



This report shows single course assessment questions and responses for courses with five or more enrolled.

Term 202301 - Winter Term 2023 Subject MATH-Mathematics Course 017-Intro: Math Beyond Calculus Section 01

COURSE ASSESSMENT SUMMARY - SINGLE COURSE

| | | | | |
|-------------|--------------------------------------|--|----------------------------------|---|
| Course: | MATH 017 Intro: Math Beyond Calculus | | Total Enrollment: | 9 |
| Section: | 01 | | Eligible to Complete Assessment: | 9 |
| Term: | 202301 - Winter Term 2023 | | Completed Assessment: | 8 |
| Instructor: | Juanita Duque Rosero | | Did Not Complete Assessment: | 1 |

Individual Responses Student Background

| | | | | | | | | | | | |
|---|-------------------------------|--------------|---------------|-----------------|------------------|---------------------------|------------------------------|-------------|------------|---------|------------|
| Year at Dartmouth (7 Responses) | 1 71.4% | 2 14.3% | 3 14.3% | 4 0% | 5 0% | B.E. 0% | Masters 0% | Ph.D. 0% | | | |
| Reason(s) for taking course (7 Responses) | Distributive Requirement 1 | Major 4 | Minor 1 | Professor 1 | Interest 3 | Masters/PhD Elective 0 | Masters/PhD Requirement 0 | Other 0 | | | |
| Attendance in this course (7 Responses) | ≤ 20% 0% | 20-40% 0% | 40-60% 0% | 60-80% 14.3% | 80-100% 85.7% | | | | | | |
| Expected Grade (7 Responses) | A 85.7% | B 0% | C 14.3% | D 0% | E 0% | N.R.O. 0% | C.T. 0% | N.C. 0% | L.P. 0% | P 0% | H.P. 0% |
| Hrs/wk spent on coursework outside class (6 Responses) | ≤ 1 0% | 1-5 66.7% | 5-10 16.7% | 10-15 16.7% | ≥ 15 0% | | | | | | |

Individual Responses Course Design and Effectiveness

| | | | | | | | | | | | |
|---|---------------------------------|---------------------------------|-------------------------|--------------------|------------------|----------------|-------------------------|-----------|--|--|--|
| I think the overall quality of the course was (8 Responses) | Median 1 (Excellent) | Mean 1.5 (Very Good) | Excellent 75% | Very Good 12.5% | Good 0% | Fair 12.5% | Poor 0% | N/A 0% | | | |
| I learned a lot in the course. (7 Responses) | Median 1 (Strongly Agree) | Mean 1.4 (Strongly Agree) | Strongly Agree 71.4% | Agree 14.3% | Neutral 14.3% | Disagree 0% | Strongly Disagree 0% | N/A 0% | | | |
| I put a great deal of effort into the course. (7 Responses) | 2 (Agree) | 1.9 (Agree) | 42.9% | 28.6% | 28.6% | 0% | 0% | 0% | | | |
| I was intellectually engaged in the course. (7 Responses) | 1 (Strongly Agree) | 1.1 (Strongly Agree) | 85.7% | 14.3% | 0% | 0% | 0% | 0% | | | |
| The objectives of the course were clear to me. (7 Responses) | 1 (Strongly Agree) | 1.1 (Strongly Agree) | 85.7% | 14.3% | 0% | 0% | 0% | 0% | | | |
| I found the course to be well organized (7 Responses) | 1 (Strongly Agree) | 1.3 (Strongly Agree) | 71.4% | 28.6% | 0% | 0% | 0% | 0% | | | |
| The assignments reinforced my understanding of the course material (7 Responses) | 1 (Strongly Agree) | 1.1 (Strongly Agree) | 85.7% | 14.3% | 0% | 0% | 0% | 0% | | | |
| Comment on the aspects of the course that you think were most effective: (3 Responses) | View Responses | | | | | | | | | | |
| Comment on 1-3 aspects of the course that could be improved or enhanced: (2 Responses) | View Responses | | | | | | | | | | |
| How did you contribute to your own learning experience? (2 Responses) | View Responses | | | | | | | | | | |

Individual Responses Faculty (Juanita Duque Rosero)

| | | | | | | | | | | | |
|---|---------------------------------|----------------------------|-------------------------|--------------------|------------------|----------------|-------------------------|-----------|--|--|--|
| I think the overall effectiveness of the teaching was (7 Responses) | Median 1 (Excellent) | Mean 1.4 (Excellent) | Excellent 71.4% | Very Good 14.3% | Good 14.3% | Fair 0% | Poor 0% | N/A 0% | | | |
| The professor set high standards (7 Responses) | Median 1 (Strongly Agree) | Mean 1.7 (Agree) | Strongly Agree 57.1% | Agree 14.3% | Neutral 28.6% | Disagree 0% | Strongly Disagree 0% | N/A 0% | | | |
| The professor explained central concepts clearly (7 Responses) | 1 (Strongly Agree) | 1.3 (Strongly Agree) | 71.4% | 28.6% | 0% | 0% | 0% | 0% | | | |
| The professor challenged me to think critically about the course material (7 Responses) | 1 (Strongly Agree) | 1.1 (Strongly Agree) | 85.7% | 14.3% | 0% | 0% | 0% | 0% | | | |
| The professor was available for consultation outside of class (7 Responses) | 1 (Strongly Agree) | 1.1 (Strongly Agree) | 85.7% | 14.3% | 0% | 0% | 0% | 0% | | | |
| Comment on 1-3 things that the professor did well and should continue to do in the future: (3 Responses) | View Responses | | | | | | | | | | |
| Comment on 1-3 things that the professor should focus on to improve their classroom effectiveness: (2 Responses) | View Responses | | | | | | | | | | |
| Add any specific recommendations on how the professor is assessing the course work and giving feedback to students that you believe would be useful: (2 Responses) | View Responses | | | | | | | | | | |

Individual Responses Student Initiated Questions

| | | | | | | | | | | | |
|--|----------------|--|--|--|--|--|--|--|--|--|--|
| Comment on the methods of evaluation chosen by the instructor, e.g. tests, papers and examinations and the workload expected of students: (2 Responses) | View Responses | | | | | | | | | | |
| Comment on the structure of the class, for example the mix between lecture and discussion: (2 Responses) | View Responses | | | | | | | | | | |
| How did this course influence your academic experience at Dartmouth? (2 Responses) | View Responses | | | | | | | | | | |
| | | | | | | | | | | | |

There are no course specific question responses.

COURSE ASSESSMENT REPORTS - My Specific Faculty Comments

| | | | |
|---|---------------------------------|----------------------------------|--|
| Course: MATH 017 Intro: Math Beyond Calculus | Term: 202301 - Winter Term 2023 | Instructor: Juanita Duque Rosero | Question: Comment on 1-3 things that the professor did well and should continue to do in the future: |
| 1.00 It was noticeably helpful when the professor paused the lecture to work through a concept with the students so that it would make sense. I think this quality will prove most helpful in the future for smaller classrooms where these interactions do not impede the pace of the course. I also think that the professor's enthusiastic and encouraging demeanor enhanced the classroom atmosphere. This attitude was a big reason why I looked forward to attending class. | | | |
| 2.00 a | | | |

| | | | |
|--|---------------------------------|----------------------------------|--|
| Course: MATH 017 Intro: Math Beyond Calculus | Term: 202301 - Winter Term 2023 | Instructor: Juanita Duque Rosero | Question: Comment on 1-3 things that the professor should focus on to improve their classroom effectiveness: |
| 1.00 A few times there were hiccups in the lessons. Every professor has slip-ups, and I do not doubt that a lot of attention went into lesson plans, so I think that the improvements can come in how these hiccups are handled. I think that it would improve the flow of the course for the instructor to assess whether they can quickly amend a mistake in the lesson plan, and if they can not, to find where they can move onto and address the mistake later. | | | |
| 2.00 a | | | |

| | | | |
|--|---------------------------------|----------------------------------|--|
| Course: MATH 017 Intro: Math Beyond Calculus | Term: 202301 - Winter Term 2023 | Instructor: Juanita Duque Rosero | Question: Add any specific recommendations on how the professor is assessing the course work and giving feedback to students that you believe would be useful: |
| 1.00 I think assessment of coursework and feedback was all good :) | | | |
| 2.00 a | | | |

COURSE ASSESSMENT REPORTS - Student Initiated Comments

| | | | |
|---|---------------------------------|----------------------------------|---|
| Course: MATH 017 Intro: Math Beyond Calculus | Term: 202301 - Winter Term 2023 | Instructor: Juanita Duque Rosero | Question: Comment on the methods of evaluation chosen by the instructor, e.g. tests, papers and examinations and the workload expected of students: |
| 1.00 I think that the home works were engaging and low-stress. The project at the end of the term was a fun way to engage with topics outside of the scope of the course while still connecting with the course content, which is very much in the spirit of Math 17. | | | |
| 2.00 a | | | |

| | | | |
|---|---------------------------------|----------------------------------|--|
| Course: MATH 017 Intro: Math Beyond Calculus | Term: 202301 - Winter Term 2023 | Instructor: Juanita Duque Rosero | Question: Comment on the structure of the class, for example the mix between lecture and discussion: |
| 1.00 I think this course was a good balance between lectures and worksheets, however it could be improved by having a more active connection to the worksheets themselves from the content in lectures. That is not to say there was no connection, but a noticeable disconnect was there at times. | | | |
| 2.00 a | | | |

| | | | |
|--|---------------------------------|----------------------------------|--|
| Course: MATH 017 Intro: Math Beyond Calculus | Term: 202301 - Winter Term 2023 | Instructor: Juanita Duque Rosero | Question: How did this course influence your academic experience at Dartmouth? |
| 1.00 After a negative experience with my first math course in fall term (i.e. Math 11, I do not hesitate to speak on this course by name) Math 17 gave me a much better impression of Dartmouth Mathematics. I am now much more strongly considering a minor or even major in mathematics. | | | |
| 2.00 a | | | |

| | | | |
| --- | --- | --- | --- |
| Course: MATH 017 Intro: Math Beyond Calculus | Term: 202301 - Winter Term 2023 | Instructor: Juanita Duque Rosero | Question: Comment on 1-3 aspects of the course that could be improved or enhanced: |

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COURSE ASSESSMENT SUMMARY - SINGLE COURSE

Course: MATH 001 Intro. to Calculus
Section: 04
Term: 202109 - Fall Term 2021
Instructor: Juanita Duque Rosero

| | |
|---|----|
| Total Enrollment: | 15 |
| Eligible to Complete Assessment: | 15 |
| Completed Assessment: | 13 |
| Did Not Complete Assessment: | 2 |

Individual Responses Student Background

| | | | | | | | | | | |
|--|--|-----------------------------|------------------------------|-------------------------------|--------------------------------|--|---|---------------------------|-------------------------|------------------------|
| <u>Year at Dartmouth</u> (13 Responses) | <u>192.3%</u> | <u>27.7%</u> | <u>30%</u> | <u>40%</u> | <u>50%</u> | <u>B.E.0%</u> | <u>Masters0%</u> | <u>Ph.D.0%</u> | | |
| <u>Reason(s) for taking course</u> (13 Responses) | <u>Distributive Requirement</u> ⁷ | <u>Major</u> ³ | <u>Minor</u> ² | <u>Professor</u> ⁰ | <u>Interest</u> ² | <u>Masters/PhD Elective</u> ⁰ | <u>Masters/PhD Requirement</u> ⁰ | <u>Other</u> ¹ | | |
| <u>Attendance in this course</u> (13 Responses) | <u>< 20%</u> ^{0%} | <u>20-40%</u> ^{0%} | <u>40-60%</u> ^{0%} | <u>60-80%</u> ^{0%} | <u>80-100%</u> ^{100%} | | | | | |
| <u>Expected Grade</u> (13 Responses) | <u>A</u> ^{46.2%} | <u>B</u> ^{23.1%} | <u>C</u> ^{30.8%} | <u>D</u> ^{0%} | <u>E</u> ^{0%} | <u>NRO</u> ^{0%} | <u>CT</u> ^{0%} | <u>NC</u> ^{0%} | <u>LP</u> ^{0%} | <u>P</u> ^{0%} |
| <u>Hrs/wk spent on coursework outside class</u> (12 Responses) | <u>< 18</u> ^{3.3%} | <u>1-5</u> ^{25%} | <u>5-10</u> ^{41.7%} | <u>10-15</u> ^{25%} | <u>> 15</u> ^{0%} | | | | | |

Individual Responses Course Design and Effectiveness

Individual Responses Faculty (Juanita Duque Rosero)

Individual Responses Student Initiated Questions

COURSE ASSESSMENT REPORTS - Non-Faculty Specific Comments

Course: MATH 001 Intro. to Calculus

Term: 202109 - Fall Term 2021

Instructor: Juanita Duque Rosero

Question Section **Course Design and Effectiveness** Question:

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

1 Content was good.

2 I love my professor. She was so nice and always available to help.

3 I think the aspects of the course that were most effective were working on worksheets during class.

4 Office hours helped. I spent most of my free time in all the office hours.

5 Practice problems for homework

6 Quizzes to reinforce lessons

7 The WebWork assignments were helpful for reviewing the content learned in class.

8 The weekly quizzes.

Course: MATH 001 Intro. to Calculus

Term: 202109 - Fall Term 2021

Instructor: Juanita Duque Rosero

Question Section **Course Design and Effectiveness** Question:

Comment on 1-3 aspects of the course that could be improved.

1 Class material not covered on homework. Homework content is way advanced

2 Homework and quizzes on the same timeline as class. Make sure students understand what is going on. Practice problems in class rather than taking notes for a full class.

3 More in-class practice problems that students do before instructor completes/explains

4 The office hours and the way that the course was taught.

5 The structure was a bit lose.

6 The written homework problems could have been thought out a bit better as some resulted in very convoluted answers.

7 This course moved very quickly and I felt as if we were expected to know everything before it was even taught. Because of this, I felt as if I was always trying to catch up. Not enough practice was done in class.

8 the grading was messed up. I would get the right the answer or at least do 90% of the work right but I had to write a whole paragraph explaining my work which is where I got all my points off so If I got the problem rights without an explanation, I would get a 50%. But my work should be enough justification but it wasn't. The other problem was the Homework. The homework we did was what we learned 2 weeks later in the class so basically had to self teach ourselves to topics ahead of time.

Course: MATH 001 Intro. to Calculus

Term: 202109 - Fall Term 2021

Instructor: Juanita Duque Rosero

Question Section **Course Design and Effectiveness** Question:

How did you contribute to your own learning experience?

1 Asking questions and studying.

2 Homework completion consistently

3 I attended almost every single office hour, including those held by professors from other sessions. I also joined a tutoring group and used khan academy.

4 I studied the things I didn't know and I did all of the homework

5 I think that I learned a great amount considering my lack of experience in precalculus and calculus.

6 I tried to keep up the work.

7 I used outside sources to better understand the topics learned