

**College of Engineering, Cornell University**  
**Course Evaluation Response Summary**  
**Semester: Spring 2021 Course Owner: ORIE**  
**Course: ORIE 3310 Lec 1 CID: 10258**  
**Instructor: Schalekamp**  
**94 Responses, 116 Enrolled, 81.03% Response**

Question	Mean	Count	1	2	3	4	5
<p>11. [Course Content] How did you participate in this course? (Answer for the way you attended for most of the semester)</p> <p>1. Attended sessions online, approximately half synchronously and half asynchronously</p> <p>2. Attended most sessions synchronously online (i.e., via zoom)</p> <p>3. Attended most sessions asynchronously online (i.e., watched video recordings; completed modules)</p> <p>4. Attended a mix of online and in person class sessions</p> <p>5. Attended most sessions in person (i.e., in the classroom)</p>	2.36	94	15	42	29	4	4
<p>12. [Course Content] Content Organization: Did the course structure and organization facilitate your learning?</p> <p>1. Very disorganized, significantly hindered my learning</p> <p>2. Somewhat disorganized</p> <p>3. Adequately organized</p> <p>4. Well organized</p> <p>5. Very well organized and structured, significantly enhanced my learning</p>	4.40	94	0	1	8	37	48
<p>13. [Course Content] Synthesize &amp; Apply Content: This course challenged me to synthesize ideas, think critically about the content, and apply the material to unfamiliar topics and problems.</p> <p>1. Not at all</p> <p>2. Occasionally</p> <p>3. Every few classes</p> <p>4. Many classes and assignments</p> <p>5. Nearly every class and assignment</p>	4.53	93	0	0	4	36	53
<p>14. [Course Content] Examples &amp; Applications: Were the number and variety of examples and practical applications presented appropriate to the course content and for your learning style?</p> <p>1. No, almost no examples</p> <p>2. A few, but insufficient number and/or mostly trivial</p> <p>3. Some, but more or higher quality would have been helpful</p> <p>4. Yes, including some very good ones</p> <p>5. Excellent use of examples and applications that significantly increased my understanding of the material</p>	4.41	94	0	1	9	34	50
<p>21. [Course Delivery] Lectures: As a whole, were lectures clear, well-structured, free of significant or frequent errors, and did they appropriately cover the course content?</p> <p>1. No, usually poorly done</p> <p>2. Sometimes</p> <p>3. Usually adequate</p> <p>4. Usually good</p> <p>5. Nearly always very good</p>	4.48	92	0	1	6	33	52
<p>22. [Course Delivery] Context: Did the lecturer motivate the course content and place it in the context of your major or your overall engineering education (beyond fulfilling a degree requirement)?</p> <p>1. No</p> <p>2. Somewhat</p> <p>3. Adequately</p> <p>4. Mostly</p> <p>5. Absolutely</p>	4.41	93	0	3	9	28	53

23. [Course Delivery] Engagement: Did the lecturer present material in an engaging way, which improved your understanding of the course content? 1. No, generally boring 2. Rarely engaging 3. Generally held my attention 4. Engaging 5. Very engaging and often required actively thinking about material	4.29	93	0	2	15	30	46
31. [Recitation or Discussion Section] Was the section effective in increasing your understanding of, and ability to use, the course material? 1. No, usually poorly done 2. Sometimes 3. Usually adequate 4. Usually good 5. Nearly always very good	--	0	0	0	0	0	0
41. [Laboratory Activities] How valuable were laboratory activities in enhancing your learning in this course (e.g., taught specific skills, provided experience with real equipment and data, provided hands-on experience, increased my understanding of the material)? 1. Minimal value 2. Occasional value 3. Moderate value 4. Significant value 5. Very valuable, well worth time spent on them	3.93	91	0	8	22	29	32
42. [Laboratory Expectations] Lab expectations (goals, tasks, reports, deadlines, etc.) were clear and realistic. 1. Not at all 2. Partially 3. Adequately 4. Usually clear and realistic 5. Almost always very clear and realistic	4.30	93	1	2	12	31	47
43. [Laboratory Resources] Lab resources (equipment, software, information, instructions, etc.) were sufficient to provide a positive experience. 1. Rarely sufficient, severely detracted from the experience 2. Sometimes sufficient 3. Usually sufficient 4. Almost always sufficient 5. Excellent resources that enhanced the laboratory experience	4.26	93	0	5	13	28	47
44. [Laboratory Staffing] Support and help, during lab and for lab reports, were sufficient to successfully complete and analyze experiments. 1. Rarely sufficient 2. Partially sufficient 3. Adequate 4. Almost always sufficient 5. Excellent, significantly enhanced the laboratory experience	4.29	93	0	3	14	29	47
52. [Workload, Resources, Assignments & Assessment] Workload Value: The time spent on various assignments (homework, lab reports, coding, projects) was reasonable for the amount it improved my understanding of the course content. 1. Little value relative to the time required 2. Some value 3. Reasonable value for the time spent 4. Good value for time spent 5. Excellent value to time ratio	4.15	93	0	3	15	40	35

<p>54. [Workload, Resources, Assignments &amp; Assessment] Value of Assignments: Independent of the time required, overall, did assignments (e.g., homework, labs, programming assignments, projects, papers, presentations) improve your understanding of, and ability to use, the course concepts and content?</p> <ol style="list-style-type: none"> <li>1. Minimally</li> <li>2. Sometimes</li> <li>3. Usually</li> <li>4. Almost always</li> <li>5. Reliably and significantly increased my understanding and ability</li> </ol>	4.23	93	1	3	13	33	43
<p>55. [Workload, Resources, Assignments &amp; Assessment] Exams &amp; Grading: Were exams and grading a fair and reasonable measure of your learning? (Exams: clear, well written, range of content and difficulty. Grading: fair, prompt.)</p> <ol style="list-style-type: none"> <li>1. No</li> <li>2. Significant issues exist</li> <li>3. Generally fair assessment of my learning</li> <li>4. Well developed and fair</li> <li>5. Yes, definitely</li> </ol>	4.24	93	0	4	16	27	46
<p>56. [Workload, Resources, Assignments &amp; Assessment] For classes with recorded lectures: How often did you return to recorded lectures for reference (i.e., after your initial participation in or viewing of a class session)?</p> <ol style="list-style-type: none"> <li>1. Never</li> <li>2. Once or twice a month or less</li> <li>3. Weekly</li> <li>4. Daily or almost daily</li> <li>5. N/A (there were no recordings available)</li> </ol>	2.48	91	13	33	33	12	1
<p>61. [Course Environment] Diversity &amp; Inclusion: To what extent have the professors and teaching staff fostered an inclusive environment such that the class is welcoming to all, everyone is encouraged to participate, none are made to feel different, and all are treated fairly?</p> <ol style="list-style-type: none"> <li>1. Extremely non-inclusive with inappropriate comments and/or behaviors</li> <li>2. Actively not inclusive with certain students ignored, left out, or treated dismissively</li> <li>3. Passively not inclusive; comments or contributions by some students are valued less than those of other students</li> <li>4. Passively inclusive where everyone is welcome to participate, nothing specific to encourage or discourage anyone</li> <li>5. Actively inclusive, all are fully encouraged to participate and are supported</li> </ol>	4.57	92	0	1	1	35	55
<p>62. [Course Environment] Access to Assistance: Was there sufficient access to assistance (through office hours, online forums, in-class or section questions and/or activities, special accommodations met, etc.)?</p> <ol style="list-style-type: none"> <li>1. Almost no access and/or help was ineffective</li> <li>2. Limited access or value</li> <li>3. Acceptable access and help</li> <li>4. Good access with quality help</li> <li>5. Abundantly available high quality help</li> </ol>	4.23	92	0	2	12	41	37
<p>63. [Course Environment] Academic Integrity: Was the code of academic integrity maintained in the class (e.g. with respect to cheating, copying, plagiarism, use of unauthorized sources, etc.)?</p> <ol style="list-style-type: none"> <li>1. Blatant disregard for Academic Integrity</li> <li>2. No, violations clearly occurred that were not addressed</li> <li>3. Not strongly, violations could well have occurred (even if I am not aware of any)</li> <li>4. Yes, instructor took reasonable steps to maintain academic integrity</li> <li>5. Yes, academic integrity was clearly and intentionally maintained</li> </ol>	4.76	91	0	0	2	18	71

<p>81. [Interaction] To what extent did the instructor(s) provide opportunities to interact with other students in the course?</p> <p>1. The instructor explicitly prohibited working with other students.  2. The instructor allowed discussion of work with other students but did not facilitate it, submitted work was individual effort only.  3. The instructor encouraged interaction with other students and provided opportunities for this.  4. The instructor required interaction with other students or required groupwork for some of the work in the course.  5. Groupwork and/or interaction with other students was a very significant element of the course.</p>	2.96	91	1	38	30	8	14
<p>91. [Comparison to Other Courses] Instructor: Rate the overall teaching effectiveness of your lecturer compared to others at Cornell.  1 = Worse than average  5 = Much better than average</p>	4.50	92	0	0	7	32	53
<p>92. [Comparison to Other Courses] Course: Overall, how does this course compare with other comparable (technical or non-technical, as appropriate) courses you've taken at Cornell?  1 = Poorly, not educational  5 = Excellently, extremely educational</p>	4.33	92	0	0	13	36	43

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### Comments On Course Content

234: Amazing class, amazing (perhaps the best?) professor, incredible environment and the most wonderful way to start my Tues/Thurs AM's.

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1296: Course material built off the previous lecture nearly every week, and you needed stuff from Opt I to understand it well

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1412: more application rather than just pure theory

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1748: Course content was good. Helpful to understanding the various topics presented in lecture.

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1905: I thought the course content was very good. I appreciate the breadth of topics covered, and definitely feel much more comfortable with optimization modeling now.

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2300: Very thorough and well taught even if the content itself didn't interest me.

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2668: More examples would be nice.

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3295: I loved the content in Opt 2 because I remembered learning about some of the network problems in freshman year and really enjoyed diving deeper into the intricacies of each.

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4138: I think there's a lot of repetition, like we don't really need a review of calculus. We have also covered ILP and branch and bound in 3300.

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4286: Hard course, but overall well done.

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4293: Great organized interesting course content.

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4331: The examples in class really helped with my understanding with the material. But, sometimes the description of the problem would be confusing, so I would prefer if the parameters of the problem were described beforehand and typed for better organization.

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4459: N/A

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5646: Amazing course, the homework was challenging and loved what we learned.

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6708: The content is super interesting and applicable and the course notes are awesome

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7030: Very helpful as it covers so many different approaches to a problem with different variation.

---

7081: Well organized

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7230: The course content was great! I really enjoyed it and there is nothing I would change, except that it would be nice to see a couple more examples of real-world applications we learned in class.

---

7674: Very interesting and intriguing.

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8099: Many of the course content was covered in the ENGR1 1101. Thus, I wish we spent more time just going over more examples.

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8114: Course content was very interesting.

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8711: The content was very practical and easy to understand.

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9194: Course content was challenging but rewarding

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9752: The content was well organized into a few topics, and each of these was introduced and explained gradually. The content seemed pretty relevant to what we would be doing in the real world

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9771: There is too much expectation that a student understood/just took ORIE 3300, but many of us have been away from the material for a while. It would be nice to have a lecture on duality, simplex method, basic variables, etc just like the calculus review

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**Comments on Course Delivery**

234: Again, Frans is the best professor I have ever had.

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626: One of my favorite courses, Prof Schalekamp really cared about us learning the material and was always very prepared and motivated for class. I really appreciated how great he made it, even over zoom.

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1296: I really liked prof Schalekamp and how he taught it, and his voice lol. It was nice to listen to in the morning

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1748: Moves slowly, which can be helpful at times, but may slightly be boring sometimes.

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1905: I thought Prof. Schalekamp was a very good lecturer. I appreciated that most classes were motivated by specific examples.

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2300: Great lectures

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3295: Frans is a great lecturer!! He was able to make lectures engaging and fun which reflects his deep passion for the content.

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3769: Professor! Thank you so much for making this lecture so enjoyable to listen to :) It was so great to see a smiling face every day and you were so patient in your answers to student's questions and comments. You are one of the nicest, most caring professors I have had in Engineering. You also explained difficult concepts and broke them down into digestible chunks, which really helped me understand the course material. I look forward to your lecture every week!

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4138: N/A

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4286: Sometimes very dry, but that is due to material.

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4293: Professor Frans is very engaging and passionate about what he teaches. He always makes me feel welcomed to ask questions!

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4331: Frans explains concepts well and is very patient. Sometimes notation would get confusing though.

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4459: N/A

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5646: Lectures were interesting with everything being written out. Lots of notes but helpful writing.

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6708: I loved how many examples he did, it made me understand much better. I have a lot of trouble paying attention in class, but this was a rare occasion where I was engaged throughout the whole semester because Frans does such a great job at making class engaging.

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7030: It is very helpful to look back to the notes posted on Canvas.

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7075: the 5 minute break was very helpful

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7081: Well organized

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7230: The course lectures were great! Prof Schalekamp is a great lecturer.

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7674: Professor was very approachable and also very helpful with any questions students had.

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8099: I enjoyed the way lecture notes were delivered.

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8114: Great delivery!

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8711: Professor was very good at explaining the material.

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9752: The professor was pretty good at explaining subjects, and did well to consider our understanding of the material at each stage of explanation, not assuming that we had any background knowledge on new topics (which is a good thing)

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9771: I think there was a lot of writing in the lecture and it was very hard to keep up and focus while scrambling to write everything down. I also wish the lectures before the prelims and final were used as review lectures rather than trying to teach more content.

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**Comments on laboratory component**

580: Grading too unclear. Even unfair for the amount of work put into it

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1296: Lab was pretty small and minor, but I would go in person and it was super useful to be able to ask questions to the TA in person when I didn't understand something, or would get really lost on the labs. Also it gave a hands on experience with the material. Overall, while not many people went in person, the small environment was super handy

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1748: Not the most welcoming? scenario to get help in. Felt that it was easier to receive help over Zoom than in person.

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1905: I usually attended the Friday afternoon lab sessions over zoom. I thought Henry was an excellent lab facilitator. Whenever we were stuck, he asked questions that helped us think through the problem and eventually figure it out.

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2300: It took a long time to do them, sometimes I didn't complete it during section. Wish that the TAs would go over some parts

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3295: Recitations were so helpful in allowing me to work through any confusions I had about the material from that week's lectures. The recitations allowed me to work through how to apply the content with TAs and made sure I was keeping up with the course's content.

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4138: I liked the labs, but I'm just not sure how useful AMPL is.

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4286: Recitation was kinda of a waste I think. It felt like another homework each week, with slightly better access to help/instructions through the TAs in person.

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4459: N/A

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5646: Very applicable to course. I stayed at home for most of them.

---

6708: Some of the later labs were kinda confusing and unclear

---

7030: Very applicable of the knowledge learnt in class.

---

7081: Well organized

---

7230: Labs were very useful in helping me grasp the course material, and the TAs were super friendly and helpful.

---

7674: The materials were very helpful

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8099: Lab was very straight forward

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8114: Tao Jiang was a great TA! Thank you!

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8711: Very helpful for understanding the course material.

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9194: Recitations helped to enhance understanding of course material

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9752: I didn't attend that many recitations live, but the TAs were very helpful when I did.

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9771: The TAs were great.

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**[Workload] How many hours per week on average did you spend doing work associated with this course outside of scheduled class time?**

257: 5

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332: 3-4

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347: 5-8 hours per week

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367: 5

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580: 10

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612: 8

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626: 4

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887: 9

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974: 12

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1282: 3

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1296: 5

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1339: 10

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1461: 5

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1494: 6

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1724: 15

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1748: 7

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1818: 8

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1905: 6

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1936: 7

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2220: 12

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2300: 6

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2399: 10

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2668: 10

3295: 5

3331: 5-6

3769: 6

3901: 8

4138: 6

4286: 15

4293: 5~6

4331: 7

4459: 9

4703: 10

4839: 4

4955: 6

5088: 9

5646: 7

6111: 10

6708: 4

7075: 8

7081: 10hours

7148: 4

7230: 4

7507: 10

7859: 6

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8114: Around 10-16 hours per week outside of class time

8324: 5

8711: 9

8892: 7

8962: 6

8984: 4

9194: 4

9588: 6

9700: 3

9752: 3.5

9771: 5

10019: 5

10163: 10

10432: 12

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**Comments on workload, resources, assignments, and assessments**

887: The assignments were very engaging. They were challenging but not necessarily impossible and there was good guidance offered by the TAs in office hours.

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1296: I really liked the homework and exams; I wasn't expecting to enjoy doing the problems so much, and it made me interested in seeing what kind of work involves this kind of work

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1748: Homeworks were reasonable and thought provoking. Exams were as well. Nothing crazy, which is appreciated. No  $1+1 = 2$  in class and then quantum mathematics on the exams/homeworks.

---

1905: The workload was very reasonable, and the assignments were extremely valuable for improving my understanding of the content. I thought the two prelims were fair.

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2300: Was fair

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3295: Workload was definitely manageable!

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3643: I typically used lecture notes rather than watch recordings.

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4138: For the exams, I think it's a little unfair that for a lot of questions, if you can't think of a solution to a specific problem, it's just instantly 12 points off.

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4286: Workload is a lot. It is a hard class.

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4331: I wish there were more resources devoted to Ed discussion. Most questions would take very long to get answered, which was inconvenient when homeworks were almost due.

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4459: N/A

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5646: A lot of work between the homeworks and the labs, however very beneficial work

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7030: Fair amount of workload

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7075: It doesn't make sense for closed-note exams to be weighted so heavily in the grading process, in real life when applying these concepts we'd have access to other people, the internet and multiple resources. Homework is a better reflection of what you know since you're able to do it at a time that works for you, with resources if you need them (which is much more reflective of a real life situation). This grading scheme makes the class far more stressful than it needs to be, and the focus shifts from learning the material to just trying to pass the class. When you start to feel like you're drowning in work you start to hate the work and it makes it that much harder to keep up.

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7230: The exams were great, I just wish they were a bit harder so that they could more effectively gauge people's understanding of the material.

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7674: Reasonable workload

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8099: I found that the exams placed heavy penalties if you get just a single question wrong/was confused. Although concepts were tested, exams weren't really things you could specifically study for.

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8114: Very fair workload, all assignments added value in the course.

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8711: Did not feel any pressure from the workload.

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9194: Assessments were challenging but fair

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9752: The assignments were fair, but the earlier homework assignments on reductions usually took too much time based on what I would expect. The later assignments were generally fair and relevant.

The assignments were graded fairly, but I wasn't a fan of how we weren't allowed to ask any questions during exams, because this doesn't really make any sense

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9771: The assignments were well written and challenging. They enforced my understanding. Grading of assignments and exams seemed harsh and arbitrary at times. TAs weren't willing to give students the benefit of the doubt for minor errors and were overly punitive.

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### Comments on Environment-Diversity

1905: No issues

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3295: No issues

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4138: N/A

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4459: N/A

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5646: n/a

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7030: N/A

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8099: n/a

---

8114: N/A

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9752: The professor would stop fairly often to ask if there were any questions, and always answered respectfully. He was very friendly to everyone who asked or answered a question, which seemed to encourage responses from students.

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9771: After the tragic deaths of two Cornell students this semester, ORIE 3310 was the only class I'm in where the professor did not acknowledge it at all. Students are burnt out as ever, and the deaths of two students who were CS majors was shocking, especially as we're also in the midst of a pandemic that is also claiming many lives. I was surprised that Frans did not address these deaths or mental health at all. That was disappointing.

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### Comments on Environment-Assistance

234: Ok, the one complaint about this course is that the course staff was pretty unavailable on Ed, the discussion platform. I know Frans is a super busy guy and actually happen to TA for him for another class, and his workload is ridiculous; he's so accommodating and willing to help students learn but I feel like the TA's for this class were sub-par to say the best.

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580: Need more OH closer to deadline. Hard to always get started early.

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1748: Office hour rescheduling later in semester was helpful. Ed discussion was not answered well, which makes it difficult for those who have activities or other classes scheduled during office hour times to receive help.

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1905: I attended OH for nearly every assignment and it was always helpful. I also thought it was great that there were so many OH at varying times so that no matter what my schedule was, I could always get help.

---

3295: There were plenty of office hours that were all extremely helpful.

---

4138: Office hours are helpful, but some TAs really didn't know the course material well.

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4459: N/A

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5646: lots of TAs to help in OH and recitation

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6708: It was great how many office hours were offered

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7030: Sometimes questions posted on Ed Discussion could be left unanswered for several days and it was stressful especially before exams, might be due to the lack of TAs?

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7674: Many office hours to choose from and TAs are all excellent.

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8099: Some office hours were extremely helpful; however, there were times when even the TA's were quite confused with the problem set or course content.

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8114: Tao Jiang and Rowan Reddy's office hours

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8711: Ed was very helpful.

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9752: A lot of questions on Ed Discussion threads were not answered quickly, or not answered at all.

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Please please please switch back to Piazza instead of Ed

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9771: TAs were not responsive on Ed Discussion. I wish that there were more office hours on Thursdays. I know that in a perfect world we'd all be starting way ahead of the deadline, but it's not always possible when you're juggling so many things.

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### Comments on Environment-Academic Integrity

1905: No issues

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3295: No issues!

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4138: N/A

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4459: N/A

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5646: n.a

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7030: N/A

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8099: n/a

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8114: N/A

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9752: It's pretty hard to cheat for in-person exams, so this was a good measure, but I don't know if any measures were taken to prevent cheating on online exams. I can't imagine there was much online cheating, but there's no way for me to really know, since I took the exams in-person.

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### Comments on TA

234: Lol. Honestly, Logan was pretty helpful and always made a point to reschedule his office hours especially around exams to make it more convenient for us students to attend for help. That was a nice gesture, and I'm pretty sure he was the only TA who ever did this.

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347: Henry Robbins - Henry has been my TA for two courses now, and he always explains content really well. He asks questions in ways that help reinforce understanding, without giving away the answer. He also makes time for students aside from his usual office hours (stays late, arrives early).

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887: Cassandra Heine was a very helpful TA who helped explain the concepts from class very well. She was very easy to talk to and provided a nice atmosphere to learn at office hours.

In addition, Henry Robbins was a great recitation TA. He explained very clearly how to approach the problems and encouraged us to take the steps necessary to end up at the right solution. He was very good at guiding us by having us walk through the steps and provide thoughts with him.

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1282: Cassie was always helpful and available. She was patient with my questions and would follow up again later if she was busy or needed to check with other TAs.

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1905: I would like to nominate Henry Robbins for a TA award. He explained things extremely clearly in lab sessions and OH. He also asked specific questions about our approach to pinpoint the issues in our understanding of the problems. Finally, he had a very strong command over the course material. (Henry was also our guide for AMPL debugging, which is certainly no small feat considering AMPL's syntax.)

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1936: Henry Robbins is the best TA because he is very good at being TA

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2919: Jody -- answered lots of questions on Ed Stem

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3295: Henry Robbins and Cassie Heine both are fantastic TAs. Their explanations were always concise and to the point and were both always willing to take time to work through what I was confused about.

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4138: N/A

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4459: Logan Grout. His help during office hours was extremely valuable, he always gave as much effort as he could and went above and beyond what was needed of him. He would answer questions over email when not in his office hours, he would answer questions walking through campus on his phone because he was a few minutes late due to something that came up, etc.

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4839: Cassie Heine. She made herself available for questions outside her normal office hours and lab section. Well versed in the content.

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4927: Henry Robbins - he was able to explain very simple things in a very adequate manner. He was never condescending and always very explanatory

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5646: n/a

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7674: Tao Jiang from my lab session was really excellent. Always so patient and helpful and I could really trust her

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**94 Responses, 116 Enrolled, 81.03% Response**

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when I have a question.

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7859: Jacob Arnold because he was the goat.

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8099: Tao Jiang

She was an extremely thoughtful TA who went out of her way (including past the times of her OH) to help students. In addition, she was very good at explaining concepts and patient when students had trouble understanding the material.

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8114: Tao Jiang - she stayed over time in many of her office hour sessions to answer our questions. She was also super good at explaining. She was my lab TA and she knew everyone's name (and she was a great lab TA).

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### Comments on Strengths

347: The lectures and labs were great.

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974: Nothing too much. The course was interesting, but it was difficult to understand some concepts from time to time.

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1280: Frans is a great instructor

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1282: The labs really helped solidify the concepts.

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1412: examples

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1748: Lectures and Homeworks

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1818: lecture, problem set

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1905: I think the quantity and quality of OH for this course was the most helpful to my learning and engagement.

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2668: I liked how the professor would write down notes as he went along so I was able to keep up with what he was saying but also am able to take down the appropriate notes.

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3295: The recitations were super helpful in making sure that I was keeping up with my understanding of the course content as well as providing examples of how to apply what we were learning.

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3643: Being able to work together on assignments (obviously independent work), but talking through it always helps.

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4138: N/A

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4293: - Professor is engaging in lecture  
- TAs are respectful and helpful  
- Lecture notes are a great resource

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4331: Office hours were really helpful for understanding. The homeworks were a reasonable workload and the lenient grading really helped remove some of the stress associated with grades.

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4459: I think that the most helpful aspect was the way that the concepts were efficiently taught to us through the different parts of the course. The recitation material was very helpful in synthesizing the material that we were currently being taught.

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4703: The instructor was just very organized, wrote out headlines, and didn't go too fast. His examples were honestly fun and easy to understand, like knapsack and traveling problems.

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4839: Recorded lectures

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4955: The ability to attend office hours with TAs to enhance understanding of course material.

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5646: recitations and homeworks were the best methods for learning the material

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7030: Relating course contents to real world issues, very interesting

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8099: Aspects of the course that helped me the most was working on the problem sets and recitation. Going through those assignments was what really taught me the concepts

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8114: All aspects of this course were helpful to my learning and engagement in this course.

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8892: The homeworks were the most helpful.

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9194: The homeworks were rewarding and enhanced understanding of material greatly

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9588: The assignments

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9752: Lectures were usually pretty clear and engaging, facilitating my learning of the material.

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### Comments on Weaknesses

347: I think the course was already plenty engaging.

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974: If the class was held in person

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1280: being in person

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1412: need a lot more examples in lectures

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1748: More? Examples.

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1905: N/A

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3295: NA

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4138: More practice problems would have helped. I think before the homeworks, we only see about three examples of the type, so it's much harder to come up with the solutions.

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4293: - It's difficult to think of questions during lecture because I need time to think about the material before coming up with questions

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4331: Faster responses on Ed discussion would be really helpful.

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4459: N/A

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4703: Small, but maybe going over the specifics of duality a bit more, and giving us a reminder of the equations from 3310 when it comes to tableaus.

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5646: less writing in lectures.

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8099: It would be great if we focused more time on going through examples and trying to cover the deeper meaning behind the different algorithms.

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8114: N/A

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8892: I would've preferred if this course was more applied. I found it to be highly theoretical and definitely struggled at times.

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9194: In-person recitations helped

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9588: The labs revolved around AMPL pretty much always, it would have been nice for them to be sometimes less about programming and about hand-worked out problems like the assignments

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10019: In person

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**If relevant, please comment on any especially effective use of technology in this course and/or any use of technology that was problematic, ineffective or hindered learning.**

1296: Not really a criticism, but if we end up online again, I'd recommend having a camera on requirement for the zoom lectures. I always felt bad coming in with my camera off, and seeing him get kind of sad because he'd ask us a question, and we wouldn't respond, and all have our cameras off. I always felt kind of awkward to turn my camera on though since only like 2 people had it on in lecture lmao (also I would roll out of bed to my laptop, and I prolly looked like a mess)

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1748: N/A

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1905: N/A

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3295: NA

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4138: N/A

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4293: N/a

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4331: All lectures were recorded, which was very convenient for when I couldn't make it to the synchronous session. The notes for class were all handwritten on a tablet which was a little sloppy at times. I think powerpoint slides with main ideas would be helpful for this class in the future to organize concepts.

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4459: N/A

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5646: n/a

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8099: n/a

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8114: N/A

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