

*** PROVISIONAL REPORT ***

UNIVERSITY OF TEXAS AT AUSTIN
 Downing, Glenn P C S371P 50610
 E100 EXPANDED

COURSE-INSTRUCTOR SURVEY
 OBJECT-ORIENTED PROGRAMMING

Spring 2020 DEPARTMENT COPY
 Grade-eligible enrollment = 85
 Surveys Returned = 76

	NUMBER CHOOSING EACH RESPONSE					NO. REPLIES THIS ITEM	AVG.
	Str Disag	Disagree	Neutral	Agree	Str Agree		
1 COURSE OBJECTIVES DEFINED-EXPLAINED	0	1	3	9	63	76	4.8
2 INSTRUCTOR PREPARED	0	0	1	5	70	76	4.9
3 COMMUNICATED INFORMATION EFFECTIVELY	0	2	0	10	64	76	4.8
4 STUDENTS ENCOURAGED-ACTIVE ROLE	0	0	4	21	50	75	4.6
5 INSTRUCTOR AVAILABILITY	0	1	0	14	61	76	4.8
6 COURSE WELL-ORGANIZED	0	3	1	9	62	75	4.7
7 STUDENT FREEDOM OF EXPRESSION	0	1	2	15	58	76	4.7
8 CLASS PARTICIPATION ENCOURAGED	0	0	1	9	65	75	4.9
9 ENGAGING INSTRUCTION	0	3	3	18	52	76	4.6
10 INST. HAD THOROUGH KNOWLEDGE OF SUBJECT	0	0	0	9	67	76	4.9
11 INSTRUCTOR EXPLANATIONS CLEAR	0	1	2	20	53	76	4.6
12 GENUINELY INTERESTED IN TEACHING COURSE	0	0	0	9	67	76	4.9
13 HELPFUL COURSE MATERIALS	0	1	10	26	39	76	4.4
14 ADEQUATE INSTRUCTIONS FOR ASSIGNMENTS	0	3	5	28	40	76	4.4
15 ASSIGNMENTS AND TESTS RETURNED PROMPTLY	0	0	3	26	47	76	4.6
16 ASSIGNMENTS USUALLY WORTHWHILE	0	2	6	18	49	75	4.5
17 STUDENT PERFORMANCE EVALUATED FAIRLY	0	0	6	22	48	76	4.6
18 STUDENT PERCEPTION OF AMOUNT LEARNED	0	1	4	13	58	76	4.7
	Vry Unsat	Unsat	Satisfact	Very Good	Excellent		
19 OVERALL INSTRUCTOR RATING	0	1	4	10	61	76	4.7
20 OVERALL COURSE RATING	0	3	3	15	55	76	4.6
	Excessive	High	Right	Light	Insuff		
21 STUDENT RATING OF COURSE WORKLOAD	1	22	51	1	1	76	
	Less 2.00	2.00-2.49	2.50-2.99	3.00-3.49	3.50-4.00		
22 OVERALL UT GRADE POINT AVERAGE	0	2	4	31	39	76	
	<u>A</u>	<u>B</u>	<u>C</u>	<u>D</u>	<u>F</u>		
23 PROBABLE COURSE GRADE	48	12	10	6	0	76	

For the computation of averages, values were assigned on a 5-point scale so that the most favorable response was assigned a value of 5 and the least favorable response was assigned a value of 1.

COMMENTS:

Total Number of Comments: 37

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1. RESPONSE: Professor Downing has his stuff down, it's clear he's an experienced teacher and I'm glad I've gotten to have him as a professor twice in my four years here. One thing I particularly liked about this class, compared to others, is the emphasis on partner projects and pair programming. It makes the projects a little easier and also helps me learn even more. I wish more classes would take up this notion. /// SURVEY SUMMARY (Question Number-Scale Position) /// Q1-5, Q2-5, Q3-5, Q4-5, Q5-5, Q6-5, Q7-5, Q8-5, Q9-5, Q10-5, Q11-5, Q12-5, Q13-5, Q14-5, Q15-5, Q16-5, Q17-5, Q18-5, Q19-5, Q20-5, Q21-2, Q22-4, Q23-3,
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2. RESPONSE: I think the most challenging aspect is that with the transition to online and all the chaos people were having in their personal lives, Downing didn't seem to accommodate all that much. The workload stayed the same and no extra drops were included, which made it difficult to feel secure about grades given personal issues. /// SURVEY SUMMARY (Question Number-Scale Position) /// Q1-5, Q2-5, Q3-5, Q4-5, Q5-5, Q6-5, Q7-5, Q8-5, Q9-3, Q10-5, Q11-5, Q12-5, Q13-5, Q14-4, Q15-5, Q16-5, Q17-5, Q18-5, Q19-5, Q20-4, Q21-3, Q22-4, Q23-4,
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3. RESPONSE: Great professor and course. I felt that it was structured well and the materials and assignments taught me a great deal. It definitely did feel more like a C++ class rather than an OOP class for a good chunk of the class, but I think the compression of the second half of the semester due to COVID might have been a factor in this. I also appreciated having us use technologies such as Gitlab, CI/CD, and Docker in our assignments, as they have great benefit in real world software development. /// SURVEY SUMMARY (Question Number-Scale Position) /// Q1-5, Q2-5, Q3-5, Q4-5, Q5-5, Q6-5, Q7-5, Q8-5, Q9-5, Q10-5, Q11-5, Q12-5, Q13-4, Q14-4, Q15-5, Q16-5, Q17-5, Q18-5, Q19-5, Q20-5, Q21-3, Q22-5, Q23-1,
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4. RESPONSE: An excellent instructor who gives excellent lectures. He's always concise despite the material being nit-picky. Keeps you on your toes with cold-calling, his lectures make you forget abt time and keeps you engaged. /// SURVEY SUMMARY (Question Number-Scale Position) /// Q1-5, Q2-5, Q3-5, Q4-5, Q5-5, Q6-5, Q7-5, Q8-5, Q9-5, Q10-5, Q11-5, Q12-5, Q13-5, Q14-5, Q15-4, Q16-5, Q17-5, Q18-5, Q19-5, Q20-5, Q21-2, Q22-5, Q23-1,
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5. RESPONSE: I am glad Professor Downing teaches two courses for UTCS undergrads, I have thoroughly enjoyed both. Professor Downing knows the material well and he is always well prepared. I appreciate the way he builds on concepts over the course of the semester, which is matched by the projects and by the end of it we are applying all of the concepts. I am not sure how many end up pairing up randomly, but I did that for each of the projects and it really boosted my success in the course (gotta trust the process!). I am still being convinced by the 2 part exam, however, I am beginning to see the value, having experienced it twice (SWE and OOP). We learn C++ well and get better with OOP concepts. ONLINE: I think every class suffered a bit after moving online. Professor Downing lost time and had to rush through some concepts and it affected how much I was able to grasp during lecture. Additionally, it was a bit challenging maintaining the same levels of focus in all the classes. Professor Downing handled the move well, but nothing can be perfect. /// SURVEY SUMMARY (Question Number-Scale Position) /// Q1-5, Q2-5, Q3-5, Q4-5, Q5-5, Q6-5, Q7-5, Q8-5, Q9-5, Q10-5, Q11-4, Q12-5, Q13-4, Q14-5, Q15-5, Q16-5, Q17-5, Q18-5, Q19-5, Q20-5, Q21-3, Q22-2, Q23-1,
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6. RESPONSE: Instructor demonstrated great knowledge of course material and was always accessible for students with questions, even in the second half of the semester. The instructor did a good job with the transition to online learning, but breaking off with random people for exams and exercises didn't translate so well versus the in-person format where I could communicate with people I knew. Quizzes were helpful in terms of staying on top of the material and the attendance quizzes were helpful. Exam timing being extended is helpful as the time crunch in the first exam affected my performance. /// SURVEY SUMMARY (Question Number-Scale Position) /// Q1-5, Q2-5, Q3-5, Q4-5, Q5-5, Q6-5, Q7-5, Q8-5, Q9-5, Q10-5, Q11-4, Q12-5, Q13-4, Q14-4, Q15-4, Q16-5, Q17-4, Q18-5, Q19-5, Q20-5, Q21-2, Q22-4, Q23-2,
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7. RESPONSE: Overall the course was great. Some of the C++ syntax and mechanisms can be quite confusing, but Prof. Downing explained everything in a clear and concise manner. This along with the cold calling which really makes you pay attention allowed me to learn a good deal every class (both online and otherwise). I thought the assignments were worthwhile and allowed me to use what I learned in class to some degree. Some of the instructions for projects were left intentionally vague, and while this did encourage me to seek out my own answers, it often left me confused and unsure of where to find the information I needed. The only thing I can think of to improve this class would be to be a little less vague on the assignments or maybe supply more concrete examples of how the content in class relates to the assignments. Thanks for the great semester! /// SURVEY SUMMARY (Question Number-Scale Position) /// Q1-5, Q2-5, Q3-5, Q4-5, Q5-4, Q6-5, Q7-5, Q8-0, Q9-5, Q10-5, Q11-4, Q12-5, Q13-4, Q14-4, Q15-5, Q16-5, Q17-5, Q18-5, Q19-5, Q20-5, Q21-3, Q22-4, Q23-2,
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8. RESPONSE: Professor Downing did a great job of making the class engaging. I really liked the conversational nature of the class that was fostered through randomly calling on students. I was also very impressed by how smooth the class felt after becoming fully remote, there really wasn't a dip in the lecture quality, class pretty much felt the same—which is a good thing. I also really like the way this class tried to prepare students for the workplace, by introducing them to common tools like CI, GitLab repos, etc., I'm actually surprised there aren't more classes that do so. Overall, Professor Downing explained everything clearly and, despite coming off slightly condescending at times, really seemed like he cared to make sure everyone understood the course content. /// SURVEY SUMMARY (Question Number-Scale Position) /// Q1-5, Q2-5, Q3-5, Q4-5, Q5-5, Q6-5, Q7-5, Q8-5, Q9-5, Q10-5, Q11-4, Q12-5, Q13-3, Q14-5, Q15-4, Q16-5, Q17-5, Q18-5, Q19-5, Q20-5, Q21-3, Q22-5, Q23-1,
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9. RESPONSE: I'm going to be honest, most of the issues with this class I think came up because of the sudden move to online. I don't think I would have as low of a grade, have disliked lecture, or been as pessimistic if the class had progressed on campus. However, I absolutely detested the exams. While I appreciated the two step process, the limited time for complicated problems was taxing on my sanity. That being said, I think the projects were reasonable and the cold calling in lecture helped me to pay attention, even if I really hate speaking in public. Overall, a this was a perfectly decent class made unsatisfactory due to the Covid-19 situation. /// SURVEY SUMMARY (Question Number-Scale Position) /// Q1-3, Q2-4, Q3-2, Q4-4, Q5-4, Q6-3, Q7-4, Q8-5, Q9-2, Q10-4, Q11-3, Q12-5, Q13-3, Q14-4, Q15-4, Q16-2, Q17-4, Q18-3, Q19-3, Q20-2, Q21-3, Q22-4, Q23-3,
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10. RESPONSE: My only complaint is the HR tests. One on hand, it's nice to immediately get feedback on the code you write; on the other, there was no partial credit (while still able to get points off for things like naming the iterators wrong, but no points for getting them right). The tests caused me a LOT of anxiety because of this, though I will say if you study hard, study the tests for each problem, and don't panic, it's not that bad. /// SURVEY SUMMARY (Question Number-Scale Position) /// Q1-5, Q2-5, Q3-5, Q4-5, Q5-5, Q6-5, Q7-4, Q8-5, Q9-3, Q10-5, Q11-4, Q12-5, Q13-4, Q14-4, Q15-4, Q16-4, Q17-5, Q18-5, Q19-5, Q20-4, Q21-3, Q22-4, Q23-2,
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11. RESPONSE: Most effective: Everything in the course prepared me to become a professional programmer. Projects, blogs, GitLab account, collaboration— I never felt like I was wasting my time. On top of that, I learned a TON about C++. Humorous anecdote: only a week or two after writing our first blogs, I had an interview for a job. The interviewer was like "so I found your blog," and I had this moment of "I bet Downing knew that this exact thing would happen." The interviewer said he got a sense of what I was like as a person from reading the blog post, and expected to like me. Most challenging: (first half) I found the exams very stressful, because it seemed like forgetting one thing could send me careening into failure. But I think that's what real-world CS interviews are like, so I don't know that the test format should be changed.

Aside: I was very impressed that you (Professor Downing) kept your cool when it was clear people weren't paying attention during online class. I was frustrated by them, and I wasn't even the one trying to have a conversation. /// SURVEY SUMMARY (Question Number-Scale Position) /// Q1-5, Q2-5, Q3-5, Q4-5, Q5-5, Q6-5, Q7-5, Q8-5, Q9-5, Q10-5, Q11-5, Q12-5, Q13-5, Q14-4, Q15-5, Q16-5, Q17-4, Q18-5, Q19-5, Q20-5, Q21-3, Q22-5, Q23-1,

12. RESPONSE: I really enjoyed this class. Downing was always clear, although sometimes project instructions were unclear, but still very generous /// SURVEY SUMMARY (Question Number-Scale Position) /// Q1-5, Q2-5, Q3-5, Q4-5, Q5-5, Q6-5, Q7-5, Q8-5, Q9-5, Q10-5, Q11-5, Q12-5, Q13-5, Q14-5, Q15-5, Q16-5, Q17-5, Q18-5, Q19-5, Q20-5, Q21-4, Q22-4, Q23-1,

13. RESPONSE: I'm not sure I like the idea of only getting credit for the hackerrank test cases you pass during exams. There was a small syntactical error in my response that I couldn't get ironed out before the time expired, rendering all test cases as failures. I had started implementing some of the methods, but without the code even compiling, there was no way to get credit for any of it. Overall the course was great. I learned a lot about C++ and the subtle nuances within it. Thanks for a great, albeit different considering the current situation, semester. /// SURVEY SUMMARY (Question Number-Scale Position) /// Q1-5, Q2-5, Q3-5, Q4-5, Q5-5, Q6-5, Q7-5, Q8-5, Q9-5, Q10-5, Q11-5, Q12-5, Q13-5, Q14-4, Q15-5, Q16-5, Q17-4, Q18-5, Q19-5, Q20-4, Q21-2, Q22-4, Q23-2,

14. RESPONSE: I really enjoyed having class with professor Downing! Thank you for an amazing semester, I learned a lot! /// SURVEY SUMMARY (Question Number-Scale Position) /// Q1-5, Q2-5, Q3-5, Q4-5, Q5-5, Q6-5, Q7-5, Q8-5, Q9-5, Q10-5, Q11-5, Q12-5, Q13-5, Q14-5, Q15-5, Q16-5, Q17-5, Q18-5, Q19-5, Q20-5, Q21-3, Q22-4, Q23-2,

15. RESPONSE: This has been my favorite class that I have taken at UT so far. I do feel like some of the optimization requirements for the projects were a little high, but other than that this class has been perfect. /// SURVEY SUMMARY (Question Number-Scale Position) /// Q1-5, Q2-5, Q3-5, Q4-5, Q5-5, Q6-5, Q7-5, Q8-5, Q9-5, Q10-5, Q11-5, Q12-5, Q13-5, Q14-5, Q15-5, Q16-5, Q17-5, Q18-5, Q19-5, Q20-5, Q21-2, Q22-4, Q23-1,

16. RESPONSE: While I think the Socratic method of instruction is very beneficial it also ended up being a deterrent for me due to anxiety issues because of the regularity. I feel the class was structured well if you work hard enough you will very likely get a good grade. I very much liked the divided structure of quizzes and tests as well. /// SURVEY SUMMARY (Question Number-Scale Position) /// Q1-4, Q2-5, Q3-5, Q4-5, Q5-5, Q6-0, Q7-4, Q8-5, Q9-3, Q10-5, Q11-4, Q12-4, Q13-4, Q14-4, Q15-5, Q16-4, Q17-5, Q18-4, Q19-4, Q20-4, Q21-2, Q22-4, Q23-3,

17. RESPONSE: I felt like I didn't really know much about OOP itself. The Professor advertises his Competitive Programming club a lot, even posting all their competitions and events on our OOP class syllabus page. And our projects all had aspects of them relating to competitive programming. We have to integrate Hackerrank inputs and outputs to our projects as if we were preparing for Competitive Programming. Just felt like I didn't learn what was expected of an OOP class. /// SURVEY SUMMARY (Question Number-Scale Position) /// Q1-2, Q2-4, Q3-4, Q4-3, Q5-4, Q6-4, Q7-4, Q8-4, Q9-2, Q10-4, Q11-4, Q12-4, Q13-3, Q14-4, Q15-5, Q16-2, Q17-3, Q18-3, Q19-3, Q20-3, Q21-2, Q22-4, Q23-1,

18. RESPONSE: Professor Downing is an excellent teacher, and I would definitely recommend his class. The workload is reasonable if you pay attention in class. I do have a few suggestions. The project specs are too incomplete. Many of the projects are clearly meant to teach you about topics in C++, but students often implement it in a way that doesn't utilize the topics he wants to because the project spec is so barren. Sometimes the specs don't include necessary information, like project Darwin which doesn't say that after the row number 9 has been printed, it resets to line 0 again instead of going on to line 10. One of the coolest parts of this class is that he forces you to treat assignments as if you were a software engineer, so you have to do things like continuous integration; however, this quickly becomes extremely tedious and takes time away from writing good code. I think the skeleton files and makefile should be provided for more assignments. Lastly, if you ever have trouble with an assignment, go to office hours. Downing is extremely nice and helpful, and he teaches you how to debug rather than doing it for you. /// SURVEY SUMMARY (Question Number-Scale Position) /// Q1-5, Q2-5, Q3-5, Q4-5, Q5-4, Q6-4, Q7-5, Q8-5, Q9-5, Q10-5, Q11-5, Q12-5, Q13-4, Q14-4, Q15-4, Q16-4, Q17-4, Q18-5, Q19-5, Q20-4, Q21-3, Q22-5, Q23-1,

19. RESPONSE: It would have been great to have been given makefiles for the projects. We were never taught how to write them and for the later projects I ended up spending a lot of time trying to get the make scripts to work correctly. Even after thoroughly reading through the makefiles that WERE given to us, I still don't fully understand how they work. I would have spend a lot less time on the labs if we could have been given the makefiles or at least had a lecture about how they work. /// SURVEY SUMMARY (Question Number-Scale Position) /// Q1-5, Q2-5, Q3-5, Q4-5, Q5-5, Q6-5, Q7-5, Q8-5, Q9-5, Q10-5, Q11-5, Q12-5, Q13-5, Q14-3, Q15-4, Q16-5, Q17-3, Q18-5, Q19-5, Q20-4, Q21-2, Q22-4, Q23-1,

20. RESPONSE: The papers and blogs were a good addition to the course, but we got too little time to do them. It would be nice if the papers were available all semester and the blogs could be assigned during the week instead of over just the weekends. /// SURVEY SUMMARY (Question Number-Scale Position) /// Q1-5, Q2-5, Q3-5, Q4-5, Q5-5, Q6-5, Q7-5, Q8-5, Q9-5, Q10-5, Q11-4, Q12-5, Q13-3, Q14-5, Q15-4, Q16-3, Q17-5, Q18-4, Q19-4, Q20-5, Q21-3, Q22-5, Q23-4,

21. RESPONSE: Overall a great course! Professor Downing is awesome! /// SURVEY SUMMARY (Question Number-Scale Position) /// Q1-5, Q2-5, Q3-5, Q4-5, Q5-5, Q6-5, Q7-5, Q8-5, Q9-5, Q10-5, Q11-5, Q12-5, Q13-4, Q14-4, Q15-5, Q16-4, Q17-4, Q18-5, Q19-5, Q20-5, Q21-3, Q22-5, Q23-1,

22. RESPONSE: I felt that some projects (particularly Allocator and Darwin (and to a lesser degree, Life)) did not explain things enough/give enough instructions. For example, if it weren't for a friend, I would never know that some of the methods in Allocator were supposed to point to the ENDS of the sentinels rather than the beginnings. I also felt that for Darwin (and less so for Life), there could have been more specification about how information is supposed to be passed between classes without any getters/setters. Either more needs to be explained during the class day when the projects are being discussed, or the project page needs more instructions/explanations written. /// SURVEY SUMMARY (Question Number-Scale Position) /// Q1-5, Q2-5, Q3-4, Q4-5, Q5-4, Q6-4, Q7-5, Q8-5, Q9-4, Q10-5, Q11-4, Q12-5, Q13-3, Q14-2, Q15-3, Q16-3, Q17-4, Q18-5, Q19-4, Q20-4, Q21-3, Q22-4, Q23-3,

23. RESPONSE: I really enjoyed the class and loved learning about the intricate detail the language c++ has. I can see the many and wonderful uses of c++ and why someone would choose c++ over a language like Java. I loved Professor Downing's charisma and his attention to every single detail, and his clarity. One complaint that I did have was during the projects, both during the first half on campus and the second half online. I was never really properly taught about makefiles and the many tools provided for us to use (valgrind, gcov, etc.). I had a really hard time figuring out how the makefile works and still am very confused by it. I feel like while the class is focused mainly to learn about the c++ language, if we are going to create makefiles and use the many tools that come with our projects, we should also spend some class time learning about them. I know we can all read the documentation for the tool and read more about the makefile, learning about it in class makes it more fun! Not only would it be great to learn it'll help us in the future! Idk just what I think! Thank you Professor Downing!! /// SURVEY SUMMARY (Question Number-Scale Position) /// Q1-4, Q2-5, Q3-4, Q4-4, Q5-5, Q6-4, Q7-5, Q8-4, Q9-4, Q10-5, Q11-5, Q12-5, Q13-4, Q14-3, Q15-4, Q16-4, Q17-3, Q18-4, Q19-4, Q20-3, Q21-2, Q22-3, Q23-3,

24. RESPONSE: First half: Awesome! Lecture felt a little dry sometimes but that's my own fault for having a terrible attention span.

Cold calling helps with this by forcing me to pay attention. I love the 2 stage quizzes and exams. Expectations are very clear. I really enjoyed the blogs too. Some of the papers were a little lengthy and didn't feel very useful, but I appreciate the easy grades. Class never felt like a waste of time and I learned a lot more than just object oriented programming and can see the things I learned in this class being very valuable in my future career. Second half: transition was very smooth, I don't think the class lost any value and the switch didn't seem to affect too much besides making it even harder to pay attention during lecture (again, my own fault). Overall: Exam 2 was WAY harder than exam 1, really took me by surprise but it was also very fair with the exception of the last question. I think we ran out of time during lecture and didn't get to some things which still appeared on the test. But in all fairness these things still showed up on the list of topics to review though I think they shouldn't have been tested. Loved all the extra credit opportunities. Probably didn't get the A I was hoping for due to exam 2 but still enjoyed the class and learned a lot /// SURVEY SUMMARY (Question Number-Scale Position) /// Q1-5, Q2-5, Q3-5, Q4-5, Q5-5, Q6-5, Q7-5, Q8-5, Q9-4, Q10-5, Q11-5, Q12-5, Q13-4, Q14-5, Q15-5, Q16-5, Q17-5, Q18-5, Q19-5, Q20-5, Q21-3, Q22-4, Q23-1,

25. RESPONSE: I thoroughly enjoyed this class especially because I gained confidence in myself as a programmer and computer scientist. Downing helped me thoroughly understand the behind the scenes of C++, and I appreciate his enthusiasm and great explanations. The class did seem rushed at the end, mostly due to the fact that we had a week extra of Spring Break, but it was nonetheless enjoyable. The tests and assignments felt like the right amount of work and there was ample help available. Downing really cares about his students, and he's one of the best professors I've had! /// SURVEY SUMMARY (Question Number-Scale Position) /// Q1-5, Q2-5, Q3-5, Q4-5, Q5-5, Q6-5, Q7-5, Q8-5, Q9-5, Q10-5, Q11-5, Q12-5, Q13-4, Q14-4, Q15-4, Q16-4, Q17-4, Q18-4, Q19-5, Q20-5, Q21-3, Q22-5, Q23-1,

26. RESPONSE: Great course as always! Even despite the pandemic. /// SURVEY SUMMARY (Question Number-Scale Position) /// Q1-5, Q2-5, Q3-5, Q4-5, Q5-5, Q6-5, Q7-5, Q8-5, Q9-5, Q10-5, Q11-5, Q12-5, Q13-5, Q14-5, Q15-5, Q16-5, Q17-5, Q18-5, Q19-5, Q20-5, Q21-3, Q22-5, Q23-1,

27. RESPONSE: I think the most effective part of this class were the projects because they really made you put the implementations we learned in practice. I think that the project specs could be better because it causes for a lot of trial and error when it comes to the Hackerranks, because you have to try different things to pass the timeout tests. /// SURVEY SUMMARY (Question Number-Scale Position) /// Q1-5, Q2-5, Q3-5, Q4-5, Q5-5, Q6-5, Q7-5, Q8-5, Q9-5, Q10-5, Q11-5, Q12-5, Q13-5, Q14-4, Q15-5, Q16-5, Q17-5, Q18-5, Q19-5, Q20-5, Q21-3, Q22-4, Q23-2,

28. RESPONSE: I really wish we had the time to cover all the topics that we missed out near the end. I would say that because the group exams were in random groups on Zoom, there's high variance to how I did because of them. For example, on the first group exam I slowed down to explain and help my other group members and didn't get to finish as a result. Whereas on the second group exam I had helpful group members that could help me as well, we finished quickly and promptly. Overall, a great class and I would have liked to include more hackerranks in class rather than on exams because I feel like getting more practice on hackerranks was the most instrumental part of my learning. /// SURVEY SUMMARY (Question Number-Scale Position) /// Q1-5, Q2-5, Q3-5, Q4-5, Q5-5, Q6-4, Q7-5, Q8-5, Q9-5, Q10-5, Q11-5, Q12-5, Q13-5, Q14-5, Q15-5, Q16-5, Q17-3, Q18-5, Q19-5, Q20-5, Q21-3, Q22-5, Q23-1,

29. RESPONSE: Definitely best CS class I have taken so far. Professor Downing is so passionate about teaching and his passion is the reason I gained so much out of the class. I was not a fan of cold calling at first, but it helped me stay attentive and be confident to speak up. Projects were a great way to apply what we learned. For the last project, I wish we learned the necessary topics before starting the project because doing the project while learning the necessary tools was difficult especially since the last two weeks of the semester are busiest times. The extra time on the second exam was helpful. I definitely would not have been able to finish it without the extra time. Overall, best CS! /// SURVEY SUMMARY (Question Number-Scale Position) /// Q1-5, Q2-5, Q3-5, Q4-5, Q5-5, Q6-5, Q7-5, Q8-5, Q9-5, Q10-5, Q11-5, Q12-5, Q13-5, Q14-5, Q15-5, Q16-5, Q17-5, Q18-5, Q19-5, Q20-5, Q21-2, Q22-5, Q23-1,

30. RESPONSE: Overall I really enjoyed this course. The objectives and the lectures were clear. The projects fit well into the curriculum. I did not have any major concerns with this course. /// SURVEY SUMMARY (Question Number-Scale Position) /// Q1-5, Q2-5, Q3-5, Q4-4, Q5-5, Q6-5, Q7-5, Q8-5, Q9-5, Q10-5, Q11-5, Q12-5, Q13-5, Q14-5, Q15-5, Q16-5, Q17-5, Q18-5, Q19-5, Q20-5, Q21-2, Q22-5, Q23-1,

31. RESPONSE: This semester (both halves) I struggled to find motivation to go to my classes, but I made an effort and went to about twice as many classes for OOP than my other classes because the lectures were so engaging and Professor Downing was obviously knowledgeable and passionate about the subject. Everything we learned in this class felt useful and important to learn, which I haven't found to be the case in most other classes. /// SURVEY SUMMARY (Question Number-Scale Position) /// Q1-5, Q2-5, Q3-5, Q4-5, Q5-5, Q6-5, Q7-5, Q8-5, Q9-5, Q10-5, Q11-5, Q12-5, Q13-4, Q14-5, Q15-5, Q16-4, Q17-5, Q18-5, Q19-5, Q20-5, Q21-3, Q22-5, Q23-1,

32. RESPONSE: Amazing course. Probably the most I've learned from any UT class. /// SURVEY SUMMARY (Question Number-Scale Position) /// Q1-5, Q2-5, Q3-5, Q4-5, Q5-5, Q6-5, Q7-5, Q8-5, Q9-5, Q10-5, Q11-5, Q12-5, Q13-5, Q14-5, Q15-5, Q16-5, Q17-5, Q18-5, Q19-5, Q20-5, Q21-3, Q22-5, Q23-3,

33. RESPONSE: Great job I really enjoyed this class it was one of the best I've taken so far in college /// SURVEY SUMMARY (Question Number-Scale Position) /// Q1-5, Q2-5, Q3-5, Q4-5, Q5-5, Q6-5, Q7-5, Q8-5, Q9-5, Q10-5, Q11-5, Q12-5, Q13-5, Q14-5, Q15-5, Q16-5, Q17-5, Q18-5, Q19-5, Q20-5, Q21-3, Q22-5, Q23-2,

34. RESPONSE: Overall, Professor Downing was an extremely engaging professor who knew a great deal about C++ and cared about students' understanding. I enjoyed the way that he taught the class, the tools we used, and the projects. The only thing that I did not enjoy about the class was the two-stage exams; it seemed that your grade in second stage of the exam was mainly dependent on the students sitting nearby/in your breakout room. I feel like allowing students to take the second stage of the exam individually for points back on the first stage would be more beneficial from a learning perspective. /// SURVEY SUMMARY (Question Number-Scale Position) /// Q1-5, Q2-5, Q3-5, Q4-4, Q5-5, Q6-5, Q7-4, Q8-5, Q9-5, Q10-5, Q11-5, Q12-5, Q13-5, Q14-5, Q15-5, Q16-4, Q17-5, Q18-5, Q19-5, Q20-5, Q21-3, Q22-5, Q23-1,

35. RESPONSE: Professor Downing is an excellent lecturer, and our class was given a plethora of resources to complete our projects and study for our exams. However, I would recommend that these resources be consolidated to one platform. Finding simple information, such as our course calendar, assignment pages, class notes, and announcements from instructors was very difficult, because the class utilizes at least five different platforms. Navigating the class between Canvas, Dr. Downing's personal website, Piazza, Hackerrank, GitLab, Perusall, and an external blogging site made keeping track of due dates and submissions difficult. In most cases, assignments and projects require several submission steps across several of these platforms, making it a difficult process to even confirm that you had turned in a project correctly. /// SURVEY SUMMARY (Question Number-Scale Position) /// Q1-4, Q2-5, Q3-5, Q4-5, Q5-5, Q6-2, Q7-5, Q8-5, Q9-4, Q10-5, Q11-5, Q12-5, Q13-5, Q14-4, Q15-5, Q16-3, Q17-4, Q18-4, Q19-3, Q20-2, Q21-3, Q22-4, Q23-2,

36. RESPONSE: I didn't like the 10pm deadlines for assignments, why couldn't they have been at midnight? Not a fan of HackerRank exams too, but I liked the class a lot! This has been my favorite CS class! /// SURVEY SUMMARY (Question Number-Scale Position) /// Q1-5, Q2-5, Q3-5, Q4-5, Q5-5, Q6-5, Q7-5, Q8-5, Q9-5, Q10-5, Q11-5, Q12-5, Q13-5, Q14-5, Q15-5, Q16-5, Q17-5, Q18-5, Q19-5,

Q20-5, Q21-3, Q22-5, Q23-1,

37. RESPONSE: Overall, this was an excellent course in which I learned a great deal about C++ and OOP. However, I did see a few things which could have been done better. First, there was some uncertainty on the projects about whether files should be terminated with newlines. It would be great if there could a single definitive answer to that question across all of the projects. Second, the instructor wasn't very quick to respond to posts on Piazza, and ignored some altogether. If anything, the instructor should have paid extra attention to Piazza this semester. /// SURVEY SUMMARY (Question Number-Scale Position) ///

Q1-5, Q2-5, Q3-5, Q4-5, Q5-4, Q6-5, Q7-5, Q8-5, Q9-5, Q10-4, Q11-5, Q12-5, Q13-5, Q14-5, Q15-4, Q16-5, Q17-5, Q18-5, Q19-5, Q20-5, Q21-2, Q22-5, Q23-1,
