CS 2150-002 **Program & Data Representation** - Fall 2019

ENGR (16325)

INSTRUCTORS: **Floryan, Mark (mrf8t)**

Respondents: 71 / Enrollment: 165

Summary: CS 2150-002 Program & Data Representation - Fall 2019 (16325)

Overall Course Rating

CS-2150-002 Mean 3.93
CS-2150-002 Std Dev 1.06
CS-2150-002 Response Count 354

SEAS, 2000-level courses Mean 3.95
SEAS, 2000-level courses Std Dev 1.07
SEAS, 2000-level courses Response Count 16045

Overall Instructor Rating

INSTRUCTOR: Floryan, Mark
Mean 4.66
Std Dev 0.61
Response Count 141

SEAS, 2000-level courses Mean 4.39
SEAS, 2000-level courses Std Dev 0.88
SEAS, 2000-level courses Response Count 6799

~ QUESTIONS AND DETAILS ~ | *~ ANSWER MATRICES ~*

1. The activities and assignments helped me learn the subject matter.

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Question Type: Likert
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contributed by Dean of the School of Engineering and Applied Science

Results for CS-2150-002

Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)
71	4.45	0.63	36 (50.70%)	32 (45.07%)	2 (2.82%)	1 (1.41%)	0 (0.00%)	0 (0.00%)

Results for SEAS, 2000-level courses

Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)
3218	4.13	0.94	1288 (40.02%)	1359 (42.23%)	325 (10.10%)	154 (4.79%)	76 (2.36%)	16 (0.50%)

2. There was a reasonable level of effort expected for the credit hours received.

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Question Type: Likert
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contributed by Dean of the School of Engineering and Applied Science

Results for CS-2150-002

Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)
70	3.46	1.44	23 (32.86%)	17 (24.29%)	8 (11.43%)	13 (18.57%)	9 (12.86%)	0 (0.00%)

Results for SEAS, 2000-level courses

Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)
3210	4.05	1.04	1238 (38.57%)	1337 (41.65%)	297 (9.25%)	201 (6.26%)	126 (3.93%)	11 (0.34%)

3. The course materials (such as textbook, readings, or background materials) increased my learning.

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Question Type: Likert
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contributed by Dean of the School of Engineering and Applied Science

Results for CS-2150-002

Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)
71	3.87	0.88	17 (23.94%)	33 (46.48%)	14 (19.72%)	6 (8.45%)	0 (0.00%)	1 (1.41%)

Results for SEAS, 2000-level courses

Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)
3207	3.69	1.13	805 (25.10%)	1082 (33.74%)	631 (19.68%)	297 (9.26%)	165 (5.14%)	227 (7.08%)

~ QUESTIONS AND DETAILS ~	~ ANSWER MATRICES ~

4. The course material was well organized and developed.

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Question Type: Likert

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contributed by Dean of the School of Engineering and Applied Science

Results for CS-2150-002

Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)
71	4.08	0.87	24 (33.80%)	34 (47.89%)	9 (12.68%)	3 (4.23%)	1 (1.41%)	0 (0.00%)

Results for SEAS, 2000-level courses

Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)
3204	3.88	1.12	1066 (33.27%)	1269 (39.61%)	420 (13.11%)	264 (8.24%)	170 (5.31%)	15 (0.47%)

5. The instructor was well prepared for class.

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Question Type: Likert

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contributed by Dean of the School of Engineering and Applied Science

Results for CS-2150-002, Floryan, Mark

Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)
70	4.70	0.49	50 (71.43%)	19 (27.14%)	1 (1.43%)	0 (0.00%)	0 (0.00%)	0 (0.00%)

Results for SEAS, 2000-level courses

Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)
3401	4.25	0.97	1671 (49.13%)	1026 (30.17%)	340 (10.00%)	137 (4.03%)	80 (2.35%)	147 (4.32%)

6. The grading policy was fair.

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Question Type: Likert

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contributed by Dean of the School of Engineering and Applied Science

Results for CS-2150-002

Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)
71	3.79	1.08	19 (26.76%)	31 (43.66%)	11 (15.49%)	7 (9.86%)	3 (4.23%)	0 (0.00%)

Results for SEAS, 2000-level courses

Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)
3206	3.98	1.03	1143 (35.65%)	1280 (39.93%)	439 (13.69%)	237 (7.39%)	95 (2.96%)	12 (0.37%)

7. The instructor showed respect for students, and created a safe and supportive learning environment.

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Question Type: Likert

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contributed by Dean of the School of Engineering and Applied Science

Results for CS-2150-002, Floryan, Mark

Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)
71	4.62	0.70	50 (70.42%)	17 (23.94%)	3 (4.23%)	0 (0.00%)	1 (1.41%)	0 (0.00%)

Results for SEAS, 2000-level courses

Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)
3398	4.53	0.74	2094 (61.62%)	891 (26.22%)	208 (6.12%)	50 (1.47%)	22 (0.65%)	133 (3.91%)

8. What aspects of the course most helped your learning?

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Question Type: Short Answer

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contributed by Dean of the School of Engineering and Applied Science

Results for CS-2150-002

Total	Individual Answers
58	*See below for Individual Results*

The Labs, as tedious as they were, helped me the most because no matter how much I understood the actual material it was still hard to implement in code form.

Labs

Office hours

The slides

~ QUESTIONS AND DETAILS ~	~ ANSWER MATRICES ~
	The examples on the board
	The slide, tutorials and office hours were very helpful.
	The lecture recordings allowed me to go back and make sure I understood everything.
	Doing the labs.
	Examples given and gone over in class
	Going to class
	Lecture
	The labs and lectures being online (so we can review it)
	I learned a lot working through labs. Also Floryan Rocks.
	the labs were extremely long and time consuming, which i know if just part of the course, but i feel like I could've learned just as much with more help on the labs. Such as more instructions and better ways of explaining what is i needed to do on each lab. i also feel like the instructions could have been organized in a better visual way to make the instructions more clear instead of just paragraphs of words.
	Lab assignments.
	The labs
	The labs helped my learning the most.
	The labs and Floryan's lecturing
	The homework assignments and lecture. Professor Floryan did a really good job of explaining the class material and his lectures were interesting. He is my favorite professor I've had at UVA.
	Piazza forum was helpful. Lecture recordings were also really good.
	Floryan made an effort to connect with the students and keep their attention and make the class more fun, which was very appreciated.
	The homework assignments (labs)
	The lab assignments, lectures, and lecture slides.
	Professor Floryan is an amazing professor. He is knowledgeable, funny, and easy to talk to. Without him I would not have learned as much as I did. The reading accompanying each lab were also extremely helpful.
	The labs were very helpful.
	Very intensive class that taught a lot of data structures and how memory is stored and how computers do things. Everything is great!
	Labs and lectures
	The labs really reinforced the topics.
	The TA's were very helpful.
	The lecture powerpoint folder
	The labs and organized lecture slides
	Homework assignments
	The labs were well developed and while challenging, I definitely learned a lot from them.
	The labs even though they were stressful and time consuming
	When he drew on the board to represent spatial concepts
	The slides for this course provide much information which was helpful for review and the recorded lectures were extremely useful for students who were confused.
	Everything.
	The professor was very helpful and the assignments tested my knowledge very well.
	Weekly Labs

~ QUESTIONS AND DETAILS ~	~ ANSWER MATRICES ~
	slides, in-class demonstrations, videos The labs are where the majority of my learning occurred. Labs were effective in putting the concepts that we learned in class to practice. Labs, and well organized slides. Also when Floryan wrote things on the board. drawing out new concepts during class for students to better understand the content Completing the labs The labs! n/a Having an assignment for every topic. 2150 forces me to write codes that I have never written and taught me aspects of computer science that I have never encountered before. the labs The labs forced you to learn a lot and the concepts often built atop on another which made learning very nice and easy The labs were challenging but the slide set developed by the instructors was very helpful. TA office hours multiple times a week were also crucial. The Labs The labs. Honestly I felt like they were a trial by fire. I feel significantly more confident in my coding abilities. Google The class did not teach me much Taking the time to work through the labs with the guidance of the slides on the repo most helped my learning. Readings and lectures. The Lab assignments
9. What changes to the course would most help your learning? ~ Question Type: Short Answer ~ *contributed by Dean of the School of Engineering and Applied Science*	Results for CS-2150-002 Total: 57 Individual Answers: *See below for Individual Results*
	First lab was a little overwhelming because I don't know anything about cpp Unsure. Changing the due dates of the labs. The deadlines for the labs are very front-loaded, and I think it took a toll on a lot of students as the semester progressed. The workload was overwhelming; I think lessening the amount of work would have helped me to be able to focus on learning material better make the labs easier, also don't assign a lab on the last week with our final the next day Providing solutions along with practice tests would be a huge help to prepare for the exams. The questions were not that useful for practice when you couldn't check your work. More information on slides - seems like they're made to be a compliment to lectures which makes it hard to study the slides. Rearranging the content, making test grading guidelines more fair (not just looking for a specific right answer, but any right answer), and releasing answer keys for old tests - right now studying them does not help at all and makes review sessions a lot less effective. Quicker grading of Labs

~ QUESTIONS AND DETAILS ~	~ ANSWER MATRICES ~
	We need to have answers to the practice exam questions. Not being able to check your work completely undermines the whole point of doing practice. There are review sessions where you can ask the professor, but you can't exactly go through entire exams in a 2-3 hour period while hundreds of other students are also trying to ask questions. I'm not sure why or for what purpose they do not post the answers to the practice exams, but this is something that needs to be changed if they want students to do well in this course.
	Reordering the labs to go from numbers-heaps or somethings like that, so everything would make more sense. Also not having Huffman on thanksgiving! I feel like it could be easily switched with another lab! Especially if things were reordered. I love my family and want to spend time with them.
	Lowering the difficulty of the labs.
	I would potentially add an extra day for extensions or maybe at least 12 hours. I think it was fair and I know you guys need time to grade the work as soon as possible, but I was taking a lot of hard courses during this semester and I definitely had to take every last second to complete the assignments. Once again however, this was a personal problem, I should've balanced my course load better.
	Change the structure so that it starts with number representation, builds into machine code, and finishes with graphs (go low to high instead of high to low to high)
	It would be nice if there were answer keys to the exams.
	more background on labs so that we are not just thrown into doing something we don't know. for me, the hardest part of the lab was starting, because i just didn't know where to begin. i would read the instructions over and over, which was very time consuming and unnecessary.
	Split it into two courses.
	Reduce the coursework, while the labs were helpful, there were three assignments due per week. These assignments could range from 2-5 hours of work and sometimes more. This led to a constant cycle of work for this class alone which was difficult to balance with my other courses.
	Nothing.
	N/A
	Minimize Work
	I think the course is well organized and I am afraid there is little that can be improved.
	More of the lecture notes should be recorded on slides online. Class goes fast and missing notes are a mess. The slides are also cleaner than the pseudocode put on the chalkboard.
	Eliminate IBCM from the curriculum
	Making the lab instructions more clear
	Reordering the way material is presented.
	different ordering of topics -- we did not code in c++ for a few weeks so there was a shift in the dynamic of the labs
	Amount of Work
	If possible more examples of what we are doing like pictures or going through problems.
	Rewritten lab documentation/instructions. It is a bit verbose, redundant, and there are mistakes sometimes.
	More clear and specific lab instructions
	Please make the submission system on Collab able to upload more than one file at a time. I feel like I wasted years of my life uploading one file after one file when submitting assignments.
	Perhaps more interaction in class? They already do a lot, however.
	add small quizzes instead of having three gigantic tests and slow-graded labs. This is a case where i-clickers could come in handy.
	reduce labs
	The order of the labs could be changed. A bottom up approach.
	I would have liked for professors to preface the labs more so that we would know the difficultly level to expect. The labs were also disorganized and had too much text which sometimes covered important details. The labs should be more concise.

~ QUESTIONS AND DETAILS ~	~ ANSWER MATRICES ~

Making said labs a little bit more clear and concise

Teach more of the coding aspect and less of the conceptual so we can actually finish the labs in a reasonable amount of time PLEASE

Numbers should be the first unit since it's the easiest and most basic. Also, labs should not involve so many irrelevant tutorials b/c the class isn't about how to document a file or write in bash.

I think less emphasis on reports in the latter half of the semester would be helpful, as I always felt like I learned more from the problem-solving of the coding aspects of labs

A slight reordering of the labs

I would either increase the number of credits or decrease the workload. It was extremely difficult to keep up with the work from this course in addition to my other courses - it felt as though this course neglected the fact that this is not the only course that a student takes in one semester. This giant workload in addition to the very strict extension policy made it extremely difficult for students who had fallen behind to catch up. My lab grades, which were meant to be lifting my grade, were actually bringing down my grade due to me being unable to complete work on time despite spending as much time as possible on the work (staying up all night at times). As a student who was only taking 15 credits, I was forced to sacrifice so much sleep over the semester to attempt to complete this course's work in addition to my others'. The work wasn't even that difficult, it just took a very long time to complete properly.

Ordering

Despite what some say, I was not bothered by the order of the course material. It is important to have a strong understanding of pointers before going into other topics, such as IBCM.

Providing answer keys for the previous exams, so studying would be easier. Less lab reports.

Maybe make the site easier to navigate.

More resources for help on labs

n/a

n/a

THe tutorials were utter, excuse my langauge, dog excrement. I felt like I did not really learn anything from them at all. In my humble opinion, if a subject is important enough to teach that involves some conceptual understanding (ratehr than an exercise in developing critical thinking and planning skills, and good coding habits) it should be addressed in lecture.

I found Floryan to be unreachable because whenever I emailed him, I would get a notification that the email failed. I then tried to reach Nguyen with my question and never got a response. My question was about an issue with the submission system, and the syllabus had no information on who to reach out to about this.

I would rearrange the order in which the topic are presented. The current order topics are presented does not make much sense.

Make assignment and lecture content more connected

Restructuring of labs

Allowing more time for labs!

10. The average number of hours per week I spent outside of class preparing for this course was:

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Question Type: Multiple Choice

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contributed by Office of the Provost

Results for CS-2150-002

Total	Less than 1 (NA)	1 - 3 (NA)	4 - 6 (NA)	7 - 9 (NA)	10 or more (NA)
71	0 (0.00%)	1 (1.41%)	9 (12.68%)	14 (19.72%)	47 (66.20%)

Results for SEAS, 2000-level courses

Total	Less than 1 (NA)	1 - 3 (NA)	4 - 6 (NA)	7 - 9 (NA)	10 or more (NA)
3215	226 (7.03%)	984 (30.61%)	1202 (37.39%)	438 (13.62%)	365 (11.35%)

~ QUESTIONS AND DETAILS ~	~ ANSWER MATRICES ~

11. I learned a great deal in this course.

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Question Type: Likert
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contributed by Office of the Provost

Results for CS-2150-002

Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)
70	4.61	0.64	49 (70.00%)	15 (21.43%)	6 (8.57%)	0 (0.00%)	0 (0.00%)

Results for SEAS, 2000-level courses

Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)
3206	4.12	0.95	1298 (40.49%)	1302 (40.61%)	378 (11.79%)	160 (4.99%)	68 (2.12%)

12. Overall, this was a worthwhile course.

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Question Type: Likert
~
contributed by Office of the Provost

Results for CS-2150-002

Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)
71	4.30	0.96	39 (54.93%)	19 (26.76%)	10 (14.08%)	1 (1.41%)	2 (2.82%)

Results for SEAS, 2000-level courses

Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)
3205	4.06	1.03	1303 (40.66%)	1212 (37.82%)	403 (12.57%)	169 (5.27%)	118 (3.68%)

13. The course's goals and requirements were defined and adhered to by the instructor.

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Question Type: Likert
~
contributed by Office of the Provost

Results for CS-2150-002, Floryan, Mark

Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)
71	4.63	0.51	46 (64.79%)	24 (33.80%)	1 (1.41%)	0 (0.00%)	0 (0.00%)

Results for SEAS, 2000-level courses

Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)
3393	4.29	0.86	1666 (49.10%)	1228 (36.19%)	350 (10.32%)	109 (3.21%)	40 (1.18%)

14. The instructor was approachable and made himself/herself available to students outside the classroom.

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Question Type: Likert
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contributed by Office of the Provost

Results for CS-2150-002, Floryan, Mark

Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)
71	4.42	0.79	40 (56.34%)	24 (33.80%)	4 (5.63%)	3 (4.23%)	0 (0.00%)

Results for SEAS, 2000-level courses

Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)
3388	4.28	0.90	1740 (51.36%)	1062 (31.35%)	438 (12.93%)	104 (3.07%)	44 (1.30%)

15. Overall, the instructor was an effective teacher.

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Question Type: Likert
~
contributed by Office of the Provost

Results for CS-2150-002, Floryan, Mark

Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)
71	4.62	0.57	47 (66.20%)	21 (29.58%)	3 (4.23%)	0 (0.00%)	0 (0.00%)

Results for SEAS, 2000-level courses

Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)
3402	4.14	1.03	1605 (47.18%)	1059 (31.13%)	443 (13.02%)	205 (6.03%)	90 (2.65%)

~ QUESTIONS AND DETAILS ~	~ ANSWER MATRICES ~

16. Please make any overall comments or observations about this course:

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Question Type: Short Answer

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contributed by Office of the Provost

Results for CS-2150-002

Total	Individual Answers
43	*See below for Individual Results*

swell course man

Mark Floryan is an excellent professor (great knowledge of material and very funny), and this class is an excellent class. It's a lot of work-the breadth and depth of knowledge that is covered is impressive-but the class really ingrained the material into my brain. As a result, I feel very confident about my programming ability and knowledge moving forward.

A lot of tedious work but great payoff

The workload is extremely high, taking 10+ hours doing labs per week is usual.

Mark Floryan was a great teacher. The lab assignments were very difficult. I think it would be worth while to allow collaboration with students, because it could help with the insanely long TA office hour queues.

I really appreciate the work that went into developing this course. Though I do wish the difficulty of the labs was more consistent from week to week.

Great class, horrible while taking it. Negatively affected my mental health but at least I learned a lot.

mark floryan was a great professor

The most valuable class so far I have taken in UVA

Great teacher

Best course I have taken so far

It is a good class. That should be the standard difficulty for the cs department. cs1110, cs2110, and cs2102 are just way too easy

Professor Floryan is the best, no complaints.

This was my favorite class I've taken, and I'm not even a CS major.

Even though this was class difficult, it's been my favorite CS course taken at UVA so far. I felt everything we learned was interesting and relevant for my future endeavors. I absolutely loved Professor Floyran and his teaching style. He was a fun guy and made these difficult concepts 'easy' to understand.

It was useful.

The one complaint that I have is that the lab assignments do not prepare you for the exams. The lab assignments are more application-based and they actually test you on your ability to code. The exams, on the other hand, are more like logic puzzles. The lectures spend a lot of time on coding and not a lot of time on conceptual material, but the exams really emphasize this conceptual material. Overall for this class, I felt that the exams did not test us on the content that we learned in this course. I feel that the labs are a much more accurate measure of how well someone knows computer science than the exams.

Floryan was fantastic, even though the class is designed to teach a ton in not enough time, resulting in overworked students

I almost died out of sheer frustration sometimes but I'm still here and kicking so 8/10 would take it again.

Very useful and relevant.

I loved this class and is the most valuable course I have taken at UVA. The amount of content covered is a lot but you get a lot out of it.

This course expected too much time from students, particularly the short time frame to do some of the more difficult in-labs and the ridiculous expectation that students do the most difficult labs over Thanksgiving break and immediately on getting back.

It was an experience.

~ QUESTIONS AND DETAILS ~	~ ANSWER MATRICES ~
	The grading guidelines sucked, and the strict adherence to them sucked. If I ever felt that a stifling bureaucracy adhering mechanically to a lifeless, arbitrary written document comically strayed from the ideals of fairness and effectiveness (specifically related to how effectively grades on exams reflect understanding of the material), I sure as heck felt it in this course. I don't know if the anonymous feedback even gets read, it felt like I was just screaming into the void. But you know what, I still loved this class. Through the trials and tirbulations, I think it made me a better coder and thinker. But like, there are some pretty big faults that could be EASILY fixed. So please do that. But professor Floryan was amazing. I really enjoyed his lectures, and the days when I skipped class to sleep until 2 pm, I always felt a lil bad. If you're giving almost a full letter grade to all of your students for free (the curve was 9% this semester), you have to wonder if you're doing something wrong with grading. Also, apparently the final exam was created a couple days before it was given, which meant that many things students prepared for just weren't on it... N/A Too hard for people know little about C++ Floryan was a great teacher. A great mix of knowing the material and how to teach it effectively, and being engaging and funny so his students want to pay attention. n/a Floryan was a great lecturer. He was very engaging and funny, I really appreciate him! The material also works well with CS 3102: Theory of Computation, and taking both in conjunction ended up working well with similar sections in the material. Thank you for a great semester! I don't understand why this course has to be so hard, particularly with the handful of labs that are really really hard. For example, if the Prelab #2 is wickedly hard but the inlab is super easy, why couldn't the prelab work be spread out into the inlab rather than having to do it all at once? Or on the midterm, why were so many of my answers just given zeroes? As long as you write something that isn't complete nonsense, I think you deserve at least 1 point of partial credit. It kind of feels like the people in charge of the curriculum had to go through a "weed out" course when they were undergraduate and now feel that we have to as well. Just because things were done that way in the past does not mean that is the right way to do things. I disagree strongly with the concept of a "weed out" course, and I believe it should be the goal of an instructor to get as many students over the finish line as possible - ideally without sacrificing the content of the course. It was a ton of work and the strict extension policy hurt students who were bogged down by work. My main suggestions are to somehow spread out the work better so students can sleep at night. Professors were kind and very knowledgable. It was tough, but I loved it. I am a better computer scientist now than I was when I entered. Great professor, and very worthwhile course. However, the workload was extremely intense. Some labs were a bit too much to the point where I felt like I was wasting my time, rather than using it effectively to learn the material. Very well constructed course but is very information dense. The CS department did a good job with this class. 10/10 Great learning experience. BUT, the course should be evaluated at approximately 6 credits for it's courseload. This is NO exaggeration. This took by FAR the most amount of time per week out of every course I've taken at UVA by a factor of 3+. 3 'labs' per week, and each one took on averge, atleast 8 hours to complete. In addition to the extra material for this course, I would spend, at times, OVER 30 hours a WEEK for this one class only. The fact that it is 3 credits is unbelievable. Thank you so much for being flexible when I got sick. However, this course took way too much time for the amount of credits we received. I spent more than 20 hours most weeks and i had no life outside of 2150 this semester. NA Specifically about open-ended questions on the exam. The grading policy adhered too strictly to the rubric. It was frustrating to get zero points on questions and then hear the professor paraphrase what I had wrote on the exam in class. There is a 20 word limit that prohibits me from writing the buzz words that the graders are looking for. The solution: either make the word limit larger, make the questions more directed and specific, or adhere less strictly to the rubric. This was a very good class in that I learned a lot. I truly earned everything I worked for. This was the most difficult course I have taken so far. It really pushed me to my limits but was extremely rewarding in the end. I learned a ton of really useful information. Professor Floryan is an amazing teacher and really cares for and sympathizes with his students. Very good TA's that tried theyre very best to help us succeed .