

# CS 2150-002 Program & Data Representation - Fall 2013

ENGR (18743)

INSTRUCTORS: Floryan, Mark (mrf8t)

Respondents: 53 / Enrollment: 90

Summary: CS 2150-002 Program & Data Representation - Fall 2013 (18743)	
<b>Overall Course Rating</b>  CS-2150-002 Mean 4.21 CS-2150-002 Std Dev 1.03 CS-2150-002 Response Count 265  SEAS, 2000-level courses Mean 4.09 SEAS, 2000-level courses Std Dev 0.96 SEAS, 2000-level courses Response Count 14500	<b>Overall Instructor Rating</b>  <i>INSTRUCTOR:</i> Floryan, Mark Mean 4.42 Std Dev 0.69 Response Count 370  SEAS, 2000-level courses Mean 4.25 SEAS, 2000-level courses Std Dev 0.89 SEAS, 2000-level courses Response Count 22800

~ QUESTIONS AND DETAILS ~		~ ANSWER MATRICES ~							
<b>1. The course addressed technically rigorous subject matter consistent with the course objectives.</b> ~ Question Type: Likert ~ <i>contributed by Dean of the School of Engineering and Applied Science</i>	Results for CS-2150-002								
	Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)
	53	4.75	0.43	40 (75.47%)	13 (24.53%)	0 (0.00%)	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)
	2902	4.41	0.67	1432 (49.35%)	1271 (43.80%)	145 (5.00%)	35 (1.21%)	7 (0.24%)	12 (0.41%)
<b>2. The instructor used methods other than/in addition to traditional lectures (for example, active learning, in-class problems, collaborative learning, in-class discussion) effectively in this course.</b> ~ Question Type: Likert ~ <i>contributed by Dean of the School of Engineering and Applied Science</i>	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)
	52	4.35	0.71	25 (48.08%)	20 (38.46%)	7 (13.46%)	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)
	3264	4.06	1.04	1244 (38.11%)	1161 (35.57%)	357 (10.94%)	196 (6.00%)	104 (3.19%)	202 (6.19%)
<b>3. There was a reasonable level of effort expected for the credit hours received.</b> ~ Question Type: Likert ~ <i>contributed by Dean of the School of Engineering and Applied Science</i>	Results for CS-2150-002								
	Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)
	53	3.79	1.34	20 (37.74%)	18 (33.96%)	5 (9.43%)	4 (7.55%)	6 (11.32%)	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)
	2904	4.20	0.90	1229 (42.32%)	1263 (43.49%)	213 (7.33%)	136 (4.68%)	55 (1.89%)	8 (0.28%)

## ~ QUESTIONS AND DETAILS ~

## ~ ANSWER MATRICES ~

**4. The homework assignments helped me learn the subject matter.**

Question Type: Likert

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)
53	4.62	0.57	34 (64.15%)	16 (30.19%)	2 (3.77%)	0 (0.00%)	0 (0.00%)	1 (1.89%)

## 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)
2900	4.24	0.86	1237 (42.66%)	1170 (40.34%)	269 (9.28%)	92 (3.17%)	40 (1.38%)	92 (3.17%)

**5. The textbook increased my understanding of the material.**

Question Type: Likert

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)
53	3.19	0.98	3 (5.66%)	3 (5.66%)	10 (18.87%)	5 (9.43%)	0 (0.00%)	32 (60.38%)

## 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)
2897	3.54	1.14	551 (19.02%)	833 (28.75%)	626 (21.61%)	308 (10.63%)	149 (5.14%)	430 (14.84%)

**6. The course material was well organized and developed.**

Question Type: Likert

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)
53	4.49	0.58	28 (52.83%)	23 (43.40%)	2 (3.77%)	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)
3259	4.15	0.93	1271 (39.00%)	1236 (37.93%)	365 (11.20%)	140 (4.30%)	58 (1.78%)	189 (5.80%)

**7. The instructor was knowledgeable about the subject matter.**

Question Type: Likert

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)
53	4.55	0.57	31 (58.49%)	20 (37.74%)	2 (3.77%)	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)
3255	4.54	0.75	2017 (61.97%)	829 (25.47%)	155 (4.76%)	50 (1.54%)	31 (0.95%)	173 (5.31%)

**8. The instructor was well prepared for class.**

Question Type: Likert

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)
53	4.51	0.58	29 (54.72%)	22 (41.51%)	2 (3.77%)	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)
3254	4.39	0.81	1668 (51.26%)	1061 (32.61%)	237 (7.28%)	66 (2.03%)	33 (1.01%)	189 (5.81%)

## ~ QUESTIONS AND DETAILS ~

## ~ ANSWER MATRICES ~

**9. I received adequate preparation from the prior courses in the curriculum to be successful in this course.**

Question Type: Likert

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)
53	4.08	1.01	19 (35.85%)	25 (47.17%)	3 (5.66%)	3 (5.66%)	2 (3.77%)	1 (1.89%)

## 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)
2897	3.95	0.97	787 (27.17%)	1095 (37.80%)	443 (15.29%)	141 (4.87%)	66 (2.28%)	365 (12.60%)

**10. The grading policy was fair.**

Question Type: Likert

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)
53	3.94	1.01	17 (32.08%)	23 (43.40%)	7 (13.21%)	5 (9.43%)	1 (1.89%)	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)
3261	4.10	0.89	1122 (34.41%)	1352 (41.46%)	424 (13.00%)	123 (3.77%)	48 (1.47%)	192 (5.89%)

**11. The instructor responded adequately to in-class questions.**

Question Type: Likert

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)
53	4.55	0.54	30 (56.60%)	22 (41.51%)	1 (1.89%)	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)
3255	4.29	0.85	1481 (45.50%)	1159 (35.61%)	284 (8.73%)	90 (2.76%)	40 (1.23%)	201 (6.18%)

**12. The instructor effectively used technology in support of the learning goals for this course.**

Question Type: Likert

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)
53	4.57	0.54	31 (58.49%)	21 (39.62%)	1 (1.89%)	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)
3252	4.18	0.86	1264 (38.87%)	1263 (38.84%)	389 (11.96%)	109 (3.35%)	31 (0.95%)	196 (6.03%)

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

Question Type: Multiple Choice

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)
53	0 (0.00%)	4 (7.55%)	14 (26.42%)	8 (15.09%)	27 (50.94%)

## Results for SEAS, 2000-level courses

Total	Less than 1 (NA)	1 - 3 (NA)	4 - 6 (NA)	7 - 9 (NA)	10 or more (NA)
2907	163 (5.61%)	898 (30.89%)	1236 (42.52%)	420 (14.45%)	190 (6.54%)

## ~ QUESTIONS AND DETAILS ~

## ~ ANSWER MATRICES ~

**14. I learned a great deal in this course.**

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)
53	4.72	0.57	40 (75.47%)	12 (22.64%)	0 (0.00%)	1 (1.89%)	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)
2897	4.24	0.86	1291 (44.56%)	1171 (40.42%)	307 (10.60%)	87 (3.00%)	41 (1.42%)

**15. Overall, this was a worthwhile course.**

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)
53	4.57	0.57	32 (60.38%)	19 (35.85%)	2 (3.77%)	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)
2899	4.19	0.94	1306 (45.05%)	1084 (37.39%)	324 (11.18%)	126 (4.35%)	59 (2.04%)

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

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)
52	4.62	0.53	33 (63.46%)	18 (34.62%)	1 (1.92%)	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)
3241	4.24	0.85	1408 (43.44%)	1373 (42.36%)	350 (10.80%)	47 (1.45%)	63 (1.94%)

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

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)
53	4.68	0.61	40 (75.47%)	9 (16.98%)	4 (7.55%)	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)
3247	4.20	0.92	1482 (45.64%)	1159 (35.69%)	456 (14.04%)	86 (2.65%)	64 (1.97%)

**18. Overall, the instructor was an effective teacher.**

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)
53	4.68	0.51	37 (69.81%)	15 (28.30%)	1 (1.89%)	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)
3260	4.16	0.99	1488 (45.64%)	1110 (34.05%)	437 (13.40%)	134 (4.11%)	91 (2.79%)

## ~ QUESTIONS AND DETAILS ~

## ~ ANSWER MATRICES ~

**19. Please make any overall comments or observations about this course:**~  
Question Type: Short Answer~  
contributed by Office of the Provost

## Results for CS-2150-002

Total	Individual Answers
39	See below for Individual Results

Yes, I learned a great deal, but yes, I spent many hours working for this course. If I spent the same amount of time for every course, I literally would not sleep.

Floryan is an awesome professor!

Overall, the course was useful. The labs for the most part were helpful with learning the material, but the essays were annoying and very time consuming. The tests for the most part are alright, but some questions were a bit too nit-picky and doesn't assess major concepts. Not sure if intentional, but answer keys for the sample exams would be a good addition. The grading for assignments is fair, but the grading for the tests was sometimes iffy and needed a lot of corrections.

This class should be worth more credits, compared to other 3 and 4 credit courses I have taken through the College (not the e-school, though..). I also think the exams, while it is necessary to test knowledge of subject matter, became nit-picky and "did you remember this random fact mentioned in one slide and not expanded upon" rather than true understanding. I would have liked the addition of a longer term (~3 weeks?) final project to supplement the grade in this class.

Learned a lot, great professor. However, the workload for this course is simply over-the-top ridiculous for the number of credits offered. It should certainly be 4 credits, if not more.

There is so much work in this class, but it really is worth it. In the beginning of the class, we were shown course evaluations from previous years saying that there is an insane amount of work, yet you really learn a lot. I feel the same way.

Although this class is time-consuming, I learned a lot from it. It is worth to taking.

Although this course required a great deal of time and effort in order to be successful, it was very useful and helped me to learn much more about computer science in a broad range of areas.

Floryan seems like a cool dude and I'm looking forward to taking another of his classes next semester. However, I think Bloomfield was the one making the powerpoints, so when Floryan lectured I didn't get the same sense of continuity or flow that I did when listening to Bloomfield. Also, one of the things I didn't like was the disconnect between the "homework" (lab) material and what was on the tests. That might have been unavoidable, though, since I can't think of a better way to teach both concepts and applications. However, I'm pretty sure there were things on the tests that Floryan didn't talk about and weren't on the powerpoints, so people who had him were at a bit of a disadvantage. The lecture recordings were online, but I didn't want to sit through all the material I already knew just to look for tidbits that might or might not have been on the tests. Since there were no solutions for practice tests, and the powerpoints weren't comprehensive, I thought it was too difficult to find the material that was on the tests to study it. Despite these flaws, the course was very worthwhile and I'm glad I took it.

Loved everything about the course except the way the tests were graded. They were graded as if the graders assumed we had access to their rubric, which we, of course, didn't. Without access to that document, we can't answer the questions precisely the way they want. Even if we display great knowledge of the material, if our answers don't match with the grading guideline, they are butchered. This is a bad way to grade exams. Try to grade from the perspective of a student who has just read this question, not from the perspective of a grader who is staring at a grading guideline.

In general, I think the grading (for tests at least) was very picky; it seemed that they were looking for very specific answers even if what was put was still correct.

I feel like I should have gotten more points on the exams, and Professor Floryan seemed to agree with me, but the question referred to whether Professor Floryan graded fairly, so I said "Agree." Otherwise it would have been "Neutral," since I understand the consistency argument, and hope that the curve at the end will make up for the exam grading.

He pretty chill.

DISREGARD my responses to Professor Floryan as I took this class with Professor Bloomfield for the whole semester although I was not registered with him. This course is simply awesome and I learnt A LOT from this course. BEST course at UVA so far!

Going into this course, I had heard that it would indeed be difficult, and I was not disappointed. I spent countless hours working on the lab assignments and preparing for exams, and though I may retain all the information from the course, this course was more than worthwhile.

too much work, but good

The lectures were consistent and informative.

Maybe should be 4 credits.

This class should be 4 credits!

## ~ QUESTIONS AND DETAILS ~

## ~ ANSWER MATRICES ~

This class was fantastic, I learned a great deal. The lectures were informative and engaging, the homework/labs were helpful in learning the material, and the tests were fair.

Floryan was pretty cool and overall a good teacher. I wish I had had more experience with CS before taking this class

Professor Floryan was very helpful and explained information well. I think everyone would agree that this class should be more than 3 credits though, considering how much time we put into labs.

Extremely well constructed class. It was a very time consuming class but by far the most rewarding class I have taken at UVa. I do argue strongly for it to be a 4 credit class, the material covered in the course is very essential to any computing major and the extra credit would do justice to the course and it's importance. It's not a busy work class at all, every lab is important and is assigned for a reason although it did not seem like it at the time but hindsight is 20/20. Overall, difficult but so worth it.

This is an incredible course. I definitely learned a great deal in it and was forced to code a lot and learned a lot through that. This course could be annoying at times that it would take hours and hours to finish the assignments, but I knew it was going to be this difficult going into the semester, so I didn't mind the workload. Overall this was definitely a good course

Good class, I enjoyed it. The labs tend to be very time consuming which more often then not was not a major issue. However, when I had a busy week the three part labs became a bit much. I think it would have been nice if the labs were posted on Wednesday, so on the weeks when I had a say a Monday test, I did not have to try to rush through a lab so that I would have time to study for that test. Getting the reports on Friday and having them due on Tuesday made it harder to balance my scheduled. Also, we never reused code!!!! Everything was a one and done. It would have been nice to build upon something we already done before. also larger scale coding project are much nicer then tests :D i always say if i code something i completely understand it afterwards.

Professor Floryan is an efficient, approachable and intelligent teacher. Definitely looking forward to taking more classes with him.

Great Course, very worthwhile. I wish I had been introduced to C++ in a prior course though, because I was already behind when the class started.

N/A

this should be a 4 credit course - other classes were completely on the back-burner to make time for the labs

I felt nickled and dimed on all of my tests. This class is WAY too much work. Should be a 5 credit class not 3. I should not have to spend 10 hours or more a week doing work for one class.

Good teacher but extremely hard class. For students coming in with varying levels of programming background it was a lot more difficult. Unfortunately being a good lecturer does not rectify insufficient back knowledge.

Professor Floryan made the material for this class more applicable for me. I have gone to Bloomfield's sessions and walked away baffled about the amount of information being thrown at me, but Floryan manages to present it in an easy way.

I really enjoyed this course, as I learned a great amount through every lab each week. However, I thought sometimes the amount of work necessary was excessive on some labs, and took up much more time than a typical 3 credit course. In addition, the grading policy with harsh and illogical with regard to some test questions. Overall though, I learned a ton in this course and am glad I took it.

Probably the hardest but most worthwhile class I've taken

Floryan is great! I'm taking two classes with him next year!

Grading on some exam questions was odd - instructors couldn't agree on the right answer and students were penalized for what should have been correct answers. Instead of regrading, this was addressed with a blanket curve.

Professor Floryan explains the material in an easily understandable manner.

Great class, and Professor Floryan is an excellent instructor!

I love Floryan. Can't wait to take Algorithms with him next semester! He makes it worthwhile to attend class.