

CS 2150-106 Program & Data Representation - Fall 2016

ENGR (17937)

INSTRUCTORS: Bloomfield, Aaron S. (asb2t)

Respondents: 32 / Enrollment: 42

Summary: CS 2150-106 Program & Data Representation - Fall 2016 (17937)	
Overall Course Rating CS-2150-106 Mean 4.02 CS-2150-106 Std Dev 1.22 CS-2150-106 Response Count 160 SEAS, 2000-level courses Mean 4.04 SEAS, 2000-level courses Std Dev 1.01 SEAS, 2000-level courses Response Count 16316	Overall Instructor Rating INSTRUCTOR: Bloomfield, Aaron S. Mean 4.56 Std Dev 0.64 Response Count 224 SEAS, 2000-level courses Mean 4.26 SEAS, 2000-level courses Std Dev 0.88 SEAS, 2000-level courses Response Count 23269

~ QUESTIONS AND DETAILS ~ ~ ANSWER MATRICES ~

<p>1. The course addressed technically rigorous subject matter consistent with the course objectives.</p> <p style="text-align: center;">~ Question Type: Likert ~ <i>contributed by Dean of the School of Engineering and Applied Science</i></p>	<table border="1"> <thead> <tr> <th colspan="9">Results for CS-2150-106</th> </tr> <tr> <th>Total</th> <th>Mean</th> <th>Std Dev</th> <th>Strongly Agree (5)</th> <th>Agree (4)</th> <th>Neutral (3)</th> <th>Disagree (2)</th> <th>Strongly Disagree (1)</th> <th>Not Applicable (NA)</th> </tr> </thead> <tbody> <tr> <td>32</td> <td>4.69</td> <td>0.47</td> <td>22 (68.75%)</td> <td>10 (31.25%)</td> <td>0 (0.00%)</td> <td>0 (0.00%)</td> <td>0 (0.00%)</td> <td>0 (0.00%)</td> </tr> </tbody> </table> <table border="1"> <thead> <tr> <th colspan="9">Results for SEAS, 2000-level courses</th> </tr> <tr> <th>Total</th> <th>Mean</th> <th>Std Dev</th> <th>Strongly Agree (5)</th> <th>Agree (4)</th> <th>Neutral (3)</th> <th>Disagree (2)</th> <th>Strongly Disagree (1)</th> <th>Not Applicable (NA)</th> </tr> </thead> <tbody> <tr> <td>3263</td> <td>4.38</td> <td>0.72</td> <td>1578 (48.36%)</td> <td>1403 (43.00%)</td> <td>185 (5.67%)</td> <td>56 (1.72%)</td> <td>19 (0.58%)</td> <td>22 (0.67%)</td> </tr> </tbody> </table>	Results for CS-2150-106									Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)	32	4.69	0.47	22 (68.75%)	10 (31.25%)	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)	3263	4.38	0.72	1578 (48.36%)	1403 (43.00%)	185 (5.67%)	56 (1.72%)	19 (0.58%)	22 (0.67%)
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<p>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.</p> <p style="text-align: center;">~ Question Type: Likert ~ <i>contributed by Dean of the School of Engineering and Applied Science</i></p>	<table border="1"> <thead> <tr> <th colspan="9">Results for CS-2150-106, Bloomfield, Aaron S.</th> </tr> <tr> <th>Total</th> <th>Mean</th> <th>Std Dev</th> <th>Strongly Agree (5)</th> <th>Agree (4)</th> <th>Neutral (3)</th> <th>Disagree (2)</th> <th>Strongly Disagree (1)</th> <th>Not Applicable (NA)</th> </tr> </thead> <tbody> <tr> <td>32</td> <td>4.40</td> <td>0.62</td> <td>14 (43.75%)</td> <td>14 (43.75%)</td> <td>2 (6.25%)</td> <td>0 (0.00%)</td> <td>0 (0.00%)</td> <td>2 (6.25%)</td> </tr> </tbody> </table> <table border="1"> <thead> <tr> <th colspan="9">Results for SEAS, 2000-level courses</th> </tr> <tr> <th>Total</th> <th>Mean</th> <th>Std Dev</th> <th>Strongly Agree (5)</th> <th>Agree (4)</th> <th>Neutral (3)</th> <th>Disagree (2)</th> <th>Strongly Disagree (1)</th> <th>Not Applicable (NA)</th> </tr> </thead> <tbody> <tr> <td>3328</td> <td>4.08</td> <td>1.03</td> <td>1337 (40.17%)</td> <td>1229 (36.93%)</td> <td>373 (11.21%)</td> <td>184 (5.53%)</td> <td>108 (3.25%)</td> <td>97 (2.91%)</td> </tr> </tbody> </table>	Results for CS-2150-106, Bloomfield, Aaron S.									Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)	32	4.40	0.62	14 (43.75%)	14 (43.75%)	2 (6.25%)	0 (0.00%)	0 (0.00%)	2 (6.25%)	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)	3328	4.08	1.03	1337 (40.17%)	1229 (36.93%)	373 (11.21%)	184 (5.53%)	108 (3.25%)	97 (2.91%)
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<p>3. There was a reasonable level of effort expected for the credit hours received.</p> <p style="text-align: center;">~ Question Type: Likert ~ <i>contributed by Dean of the School of Engineering and Applied Science</i></p>	<table border="1"> <thead> <tr> <th colspan="9">Results for CS-2150-106</th> </tr> <tr> <th>Total</th> <th>Mean</th> <th>Std Dev</th> <th>Strongly Agree (5)</th> <th>Agree (4)</th> <th>Neutral (3)</th> <th>Disagree (2)</th> <th>Strongly Disagree (1)</th> <th>Not Applicable (NA)</th> </tr> </thead> <tbody> <tr> <td>32</td> <td>3.41</td> <td>1.68</td> <td>14 (43.75%)</td> <td>4 (12.50%)</td> <td>2 (6.25%)</td> <td>5 (15.62%)</td> <td>7 (21.88%)</td> <td>0 (0.00%)</td> </tr> </tbody> </table> <table border="1"> <thead> <tr> <th colspan="9">Results for SEAS, 2000-level courses</th> </tr> <tr> <th>Total</th> <th>Mean</th> <th>Std Dev</th> <th>Strongly Agree (5)</th> <th>Agree (4)</th> <th>Neutral (3)</th> <th>Disagree (2)</th> <th>Strongly Disagree (1)</th> <th>Not Applicable (NA)</th> </tr> </thead> <tbody> <tr> <td>3267</td> <td>4.11</td> <td>1.02</td> <td>1332 (40.77%)</td> <td>1365 (41.78%)</td> <td>237 (7.25%)</td> <td>202 (6.18%)</td> <td>116 (3.55%)</td> <td>15 (0.46%)</td> </tr> </tbody> </table>	Results for CS-2150-106									Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)	32	3.41	1.68	14 (43.75%)	4 (12.50%)	2 (6.25%)	5 (15.62%)	7 (21.88%)	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)	3267	4.11	1.02	1332 (40.77%)	1365 (41.78%)	237 (7.25%)	202 (6.18%)	116 (3.55%)	15 (0.46%)
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~ 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-2150-106								
Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)
32	4.66	0.48	21 (65.62%)	11 (34.38%)	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)
3260	4.25	0.86	1394 (42.76%)	1239 (38.01%)	304 (9.33%)	112 (3.44%)	36 (1.10%)	175 (5.37%)

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-2150-106								
Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)
32	3.33	0.89	1 (3.12%)	4 (12.50%)	5 (15.62%)	2 (6.25%)	0 (0.00%)	20 (62.50%)

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	3.52	1.13	567 (17.37%)	928 (28.43%)	689 (21.11%)	343 (10.51%)	156 (4.78%)	581 (17.80%)

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-2150-106, Bloomfield, Aaron S.								
Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)
32	4.73	0.52	23 (71.88%)	6 (18.75%)	1 (3.12%)	0 (0.00%)	0 (0.00%)	2 (6.25%)

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)
3317	4.10	0.96	1307 (39.40%)	1315 (39.64%)	373 (11.25%)	206 (6.21%)	60 (1.81%)	56 (1.69%)

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-2150-106, Bloomfield, Aaron S.								
Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)
32	4.80	0.41	24 (75.00%)	6 (18.75%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	2 (6.25%)

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)
3324	4.57	0.65	2044 (61.49%)	1025 (30.84%)	115 (3.46%)	32 (0.96%)	13 (0.39%)	95 (2.86%)

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-2150-106, Bloomfield, Aaron S.								
Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)
32	4.73	0.45	22 (68.75%)	8 (25.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	2 (6.25%)

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)
3325	4.41	0.76	1713 (51.52%)	1238 (37.23%)	194 (5.83%)	60 (1.80%)	27 (0.81%)	93 (2.80%)

~ 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-2150-106								
Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)
32	3.58	1.20	7 (21.88%)	14 (43.75%)	1 (3.12%)	8 (25.00%)	1 (3.12%)	1 (3.12%)

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)
3262	3.81	1.09	813 (24.92%)	1066 (32.68%)	481 (14.75%)	254 (7.79%)	115 (3.53%)	533 (16.34%)

10. The grading policy was fair.

Question Type: Likert

contributed by Dean of the School of Engineering and Applied Science

Results for CS-2150-106, Bloomfield, Aaron S.								
Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)
32	4.00	0.97	8 (25.00%)	19 (59.38%)	2 (6.25%)	0 (0.00%)	2 (6.25%)	1 (3.12%)

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)
3326	4.10	0.91	1217 (36.59%)	1455 (43.75%)	385 (11.58%)	168 (5.05%)	54 (1.62%)	47 (1.41%)

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-2150-106, Bloomfield, Aaron S.								
Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)
32	4.60	0.50	18 (56.25%)	12 (37.50%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	2 (6.25%)

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)
3328	4.34	0.82	1626 (48.86%)	1246 (37.44%)	227 (6.82%)	93 (2.79%)	37 (1.11%)	99 (2.97%)

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-2150-106, Bloomfield, Aaron S.								
Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)
32	4.70	0.47	21 (65.62%)	9 (28.12%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	2 (6.25%)

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)
3321	4.23	0.88	1437 (43.27%)	1293 (38.93%)	334 (10.06%)	99 (2.98%)	54 (1.63%)	104 (3.13%)

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-2150-106					
Total	Less than 1 (NA)	1 - 3 (NA)	4 - 6 (NA)	7 - 9 (NA)	10 or more (NA)
32	0 (0.00%)	4 (12.50%)	2 (6.25%)	10 (31.25%)	16 (50.00%)

Results for SEAS, 2000-level courses					
Total	Less than 1 (NA)	1 - 3 (NA)	4 - 6 (NA)	7 - 9 (NA)	10 or more (NA)
3270	202 (6.18%)	850 (25.99%)	1360 (41.59%)	545 (16.67%)	313 (9.57%)

~ 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-2150-106							
Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)
32	4.66	0.55	22 (68.75%)	9 (28.12%)	1 (3.12%)	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)
3257	4.22	0.89	1459 (44.80%)	1290 (39.61%)	320 (9.82%)	144 (4.42%)	44 (1.35%)

15. Overall, this was a worthwhile course.

Question Type: Likert
 ~
 contributed by Office of the Provost

Results for CS-2150-106							
Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)
32	4.72	0.46	23 (71.88%)	9 (28.12%)	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)
3257	4.12	0.98	1391 (42.71%)	1201 (36.87%)	411 (12.62%)	177 (5.43%)	77 (2.36%)

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-2150-106, Bloomfield, Aaron S.							
Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)
32	4.53	0.84	21 (65.62%)	9 (28.12%)	1 (3.12%)	0 (0.00%)	1 (3.12%)

Results for SEAS, 2000-level courses							
Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)
3314	4.33	0.72	1491 (44.99%)	1519 (45.84%)	238 (7.18%)	48 (1.45%)	18 (0.54%)

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-2150-106, Bloomfield, Aaron S.							
Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)
32	4.06	0.95	12 (37.50%)	12 (37.50%)	7 (21.88%)	0 (0.00%)	1 (3.12%)

Results for SEAS, 2000-level courses							
Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)
3316	4.29	0.85	1609 (48.52%)	1221 (36.82%)	361 (10.89%)	89 (2.68%)	36 (1.09%)

18. Overall, the instructor was an effective teacher.

Question Type: Likert
 ~
 contributed by Office of the Provost

Results for CS-2150-106, Bloomfield, Aaron S.							
Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)
32	4.50	0.88	21 (65.62%)	8 (25.00%)	2 (6.25%)	0 (0.00%)	1 (3.12%)

Results for SEAS, 2000-level courses							
Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)
3324	4.17	0.98	1494 (44.95%)	1214 (36.52%)	388 (11.67%)	136 (4.09%)	92 (2.77%)

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

~
Question Type: Short Answer

~
contributed by Office of the Provost

Results for CS-2150-106	
Total	Individual Answers
13	See below for Individual Results

I never interacted with Aaron Bloomfield, so the questions regarding him I mainly kept at neutral or not applicable. His name is on the lab, but the TAs are the one's that lead it.

The lab was conducted well, my only complaint is that some of the lab computers were unreliable and some of the peripherals (mice and keyboards) had various problems.

Same as other CS 2150 evaluation.

This class should either give you 6 credits or a bigger dick, diploma, house in Hawaii, a Tesla model S and a stable job paying several million a year.

Rework assembly labs

Great course. Very hard but worthwhile.

I wrote this in the last in-lab but i will put it here again: I really loved the material in this class, however the amount of work given per week was almost unreasonable sometimes. For some of the labs, we are expected to write in a whole different language without being given much information or material. Some labs parts had too much work (considering it was just a prelab). So rather than ditching some of the material in this course, I wish we had more resources provided to us in order to complete the lab. There was always a shortage of TAs no matter how early the labs were started, so many times I felt completely helpless or would be stranded on one small issue for hours. I also wish we had the option to drop one or two labs. Many of these labs are extremely difficult, and sometimes the difficult ones are back to back. We have other classes to attend to and sometime we students fall sick and are not able to physically do that labs. One or two lab drops would be extremely helpful, and considering there are 12 labs, you would still have 10 labs in the gradebook. Many engineering classes have this system of dropping the lowest two labs, and it would be especially helpful for a class of such high caliber. In summary, please provide more source code, more helpful resources (because TAs are almost never available), and two lab drops. Thank you. This class has made me much more confident with my coding skills so do not remove any material from it because it was great. Just make it easier to learn and implement all the material in so little time because there is a lot of it and you can't expect us to learn it completely on our own. Also this class is worth 4 to 5 credits, not 3.

I'm not sure if this evaluation is for Bloomfield's lecture or in-lab. I had Floryan for lecture but overall both professors have been helpful whenever I needed any help.

Should be second CS course in CS curriculum. Starting with python is lazy and a waste of time in my opinion.

Already made a long list of comments in the other survey!

The labs were too difficult without enough information about how to complete them. In order to complete them, we needed to use the internet and talk to our classmates, but you scared us to use these resources---so we just spent so many hours getting nothing done. Take the massive number of students always on the queue as an indication of how overly difficult these assignments are! And right when you finish one assignment at 3 AM, there's another one the next day, then almost the next day...it's killer. Also, lab10 over Thanksgiving break was despicable. I know you would not want your children up until 5 AM attempting to do the lab (and not even end up getting it!!!) while home with family for the holidays. As I said before, the format of the assignments (how difficult and how little helpful guidelines are given) make it so we can't do it without TA office hours. So making that lab over thanksgiving break, without having TA office hours was so difficult. Don't make the excuse of "there was technically class on Tuesday." Be real. Care about the well-being of your students. Listen all of these comments. This class needs to be changed. Yes, everyone says we learned a lot from this class- and we surely did, but theres a better way to go about it. The fact that we all learned a lot does not give an excuse for the negativity we all experienced during this semester. Make a change.

This class was hard, try to do something to reward the effort your students put into this class...

Bloomfield is by far one of the best teachers I've ever had. I've learned so much more in this course CS-wise than any previous class. He is remarkably knowledgeable about everything and I think there was rarely if ever a time that he couldn't answer a student's question right away. The curriculum was obviously very well developed and the tests I felt were very fair. I enjoyed that this class allowed you to put in more time to get a better grade if you wanted to (providing all previous tests allowed you to theoretically study all 20+ and would lead to a higher score). This class taught me things that I literally would turn around and answer questions about on internship interviews the next day (this actually happened multiple times this semester). Very time-consuming class, but confirmed to me that I'm definitely in the right major. As a side note - CS 2110 does not prepare you at all for this class, that class was worthless.