

CS 2150-104 Program & Data Representation - Fall 2016

ENGR (17566)

INSTRUCTORS: Bloomfield, Aaron S. (asb2t)

Respondents: 25 / Enrollment: 43

Summary: CS 2150-104 Program & Data Representation - Fall 2016 (17566)	
Overall Course Rating CS-2150-104 Mean 4.05 CS-2150-104 Std Dev 1.06 CS-2150-104 Response Count 119 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 4.45 Std Dev 0.83 Response Count 167 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 ~</p> <p style="text-align: center;"><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-2150-104</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>23</td> <td>4.57</td> <td>0.66</td> <td>15 (65.22%)</td> <td>6 (26.09%)</td> <td>2 (8.70%)</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-2150-104									Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)	23	4.57	0.66	15 (65.22%)	6 (26.09%)	2 (8.70%)	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 ~</p> <p style="text-align: center;"><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-2150-104, 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>24</td> <td>4.10</td> <td>1.00</td> <td>10 (41.67%)</td> <td>4 (16.67%)</td> <td>6 (25.00%)</td> <td>1 (4.17%)</td> <td>0 (0.00%)</td> <td>3 (12.50%)</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-2150-104, Bloomfield, Aaron S.									Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)	24	4.10	1.00	10 (41.67%)	4 (16.67%)	6 (25.00%)	1 (4.17%)	0 (0.00%)	3 (12.50%)	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)	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 ~</p> <p style="text-align: center;"><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-2150-104</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>24</td> <td>3.54</td> <td>1.28</td> <td>6 (25.00%)</td> <td>9 (37.50%)</td> <td>3 (12.50%)</td> <td>4 (16.67%)</td> <td>2 (8.33%)</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-2150-104									Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)	24	3.54	1.28	6 (25.00%)	9 (37.50%)	3 (12.50%)	4 (16.67%)	2 (8.33%)	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-2150-104								
Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)
24	4.48	0.73	14 (58.33%)	6 (25.00%)	3 (12.50%)	0 (0.00%)	0 (0.00%)	1 (4.17%)

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-2150-104								
Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)
24	3.18	0.98	1 (4.17%)	3 (12.50%)	4 (16.67%)	3 (12.50%)	0 (0.00%)	13 (54.17%)

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-2150-104, Bloomfield, Aaron S.								
Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)
24	4.64	0.58	15 (62.50%)	6 (25.00%)	1 (4.17%)	0 (0.00%)	0 (0.00%)	2 (8.33%)

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-2150-104, Bloomfield, Aaron S.								
Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)
23	4.80	0.52	17 (73.91%)	2 (8.70%)	1 (4.35%)	0 (0.00%)	0 (0.00%)	3 (13.04%)

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-2150-104, Bloomfield, Aaron S.								
Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)
24	4.75	0.55	16 (66.67%)	3 (12.50%)	1 (4.17%)	0 (0.00%)	0 (0.00%)	4 (16.67%)

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-2150-104								
Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)
24	4.04	1.00	9 (37.50%)	10 (41.67%)	2 (8.33%)	3 (12.50%)	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)
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-2150-104, Bloomfield, Aaron S.								
Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)
24	3.78	1.09	8 (33.33%)	5 (20.83%)	7 (29.17%)	3 (12.50%)	0 (0.00%)	1 (4.17%)

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-2150-104, Bloomfield, Aaron S.								
Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)
24	4.65	0.59	14 (58.33%)	5 (20.83%)	1 (4.17%)	0 (0.00%)	0 (0.00%)	4 (16.67%)

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-2150-104, Bloomfield, Aaron S.								
Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)
24	4.50	0.74	14 (58.33%)	5 (20.83%)	3 (12.50%)	0 (0.00%)	0 (0.00%)	2 (8.33%)

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-2150-104					
Total	Less than 1 (NA)	1 - 3 (NA)	4 - 6 (NA)	7 - 9 (NA)	10 or more (NA)
24	0 (0.00%)	3 (12.50%)	1 (4.17%)	9 (37.50%)	11 (45.83%)

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-2150-104							
Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)
24	4.58	0.65	16 (66.67%)	6 (25.00%)	2 (8.33%)	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-2150-104							
Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)
24	4.42	0.78	14 (58.33%)	6 (25.00%)	4 (16.67%)	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-2150-104, Bloomfield, Aaron S.							
Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)
24	4.58	0.58	15 (62.50%)	8 (33.33%)	1 (4.17%)	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)
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-2150-104, Bloomfield, Aaron S.							
Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)
24	4.25	0.68	9 (37.50%)	12 (50.00%)	3 (12.50%)	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)
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-2150-104, Bloomfield, Aaron S.							
Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)
24	4.50	0.66	14 (58.33%)	8 (33.33%)	2 (8.33%)	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)
3324	4.17	0.98	1494 (44.95%)	1214 (36.52%)	388 (11.67%)	136 (4.09%)	92 (2.77%)

~ 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-2150-104	
Total	Individual Answers
16	See below for Individual Results

Overall I felt the inlab section should have been more optional than it was. For students who did not need the help of TAs I think going to the lab section should be optional. There were a number of students who went in and immediately submit a lab extension to comply with the proper ip address submission requirement. In all it seemed to be a waste of time since the tas did not at times know how to interpret ambiguity in instructions.

I was in Floryan's section... a lot of N/A's here

Overall it is a worthwhile class!

Definitely one of the best classes I have ever taken at this University! I have learned so much over one semester that it's unbelievable. The class gave us a lot of experience by having us code C++ and Assembly in a UNIX Environment. Most of the assignments pushed my boundaries and I really appreciate it!! It was a ton of work, but I got a lot out of it. I would strongly recommend this class to every CS Major!!

N/A

I didn't like how we had to write lab reports on certain topics. I felt like implementing the code was sufficient for demonstrating that we understood the topic. At the very least, the reports should have been somewhat short and not so vague (I know how it was mentioned that they are supposed to be vague, but I disagree with this. I believe that the homework should always be a contract between the teacher and the student; the teacher specifies exactly what needs to be done, and the student delivers exactly that. Actual research does have open ended questions, but they aren't in the form of homeworks that should have regular, short deadlines.)

This class was the most frustrating and time-consuming class I have ever taken at this school. However, to this point, it has also been the most rewarding. Yes it takes anywhere from 10-20 hours a week, but it also provided me with a solid basis in CS, and allowed me to feel confident as a programmer as I enter the upper level elective courses.

I apparently put my full review in the lab section but basically. This class was great and actually felt like I was doing something worthwhile with my time. Prof. Bloomfield is an entertaining and effective lecturer. I really enjoyed this course.

You should have a trick question on the exam that asks students to write a program in whitespace but all the answer actually requires is to leave the space blank (i.e. you wrote it out in whitespace) and then just write the output.

Lecture was great and the homeworks, albeit arduous, were formative

Really a quite well done class, my favorite CS at UVA thus far.

The course was very structured and required a significant amount of time, more so than any other course I have taken. The amount of time invested in the course varied from student to student but I found that I was spending so much time on the assignments that I wasn't spending time on other classes because of frustration. The difficulty of this class was not what I had initially expected, even while lowering the amount of credit hours. The lectures were informative, but not as helpful to me as I thought they would be.

Duplicate course eval?

Difficult, but worthwhile course.

I didn't have Bloomfield.

This course took lot of time and energy but every long hour spent working on this class was well worth it in the end. I have learned an incredible amount in this class and think it is planned out very well.