

# CS 2150-102 Program & Data Representation - Spring 2016

ENGR (17473)

INSTRUCTORS: Bloomfield, Aaron S. (asb2t)

Respondents: 30 / Enrollment: 45

Summary: CS 2150-102 Program & Data Representation - Spring 2016 (17473)	
<b>Overall Course Rating</b> CS-2150-102 Mean 4.18 CS-2150-102 Std Dev 1.17 CS-2150-102 Response Count 150	<b>Overall Instructor Rating</b> INSTRUCTOR: Bloomfield, Aaron S. Mean 4.62 Std Dev 0.62 Response Count 210
Difference from Category Mean, Expressed in Category Standard Deviations 	Difference from Category Mean, Expressed in Category Standard Deviations 
SEAS, 2000-level courses Mean 4.05 SEAS, 2000-level courses Std Dev 1.00 SEAS, 2000-level courses Response Count 16344	SEAS, 2000-level courses Mean 4.24 SEAS, 2000-level courses Std Dev 0.89 SEAS, 2000-level courses Response Count 23150

~ QUESTIONS AND DETAILS ~	~ ANSWER MATRICES ~																																																						
<p><b>1. The course addressed technically rigorous subject matter consistent with the course objectives.</b></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-2150-102</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>30</td> <td>4.90</td> <td>0.31</td> <td>27 (90.00%)</td> <td>3 (10.00%)</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>3272</td> <td>4.38</td> <td>0.72</td> <td>1590 (48.59%)</td> <td>1389 (42.45%)</td> <td>213 (6.51%)</td> <td>38 (1.16%)</td> <td>23 (0.70%)</td> <td>19 (0.58%)</td> </tr> </tbody> </table>	Results for CS-2150-102									Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)	30	4.90	0.31	27 (90.00%)	3 (10.00%)	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)	3272	4.38	0.72	1590 (48.59%)	1389 (42.45%)	213 (6.51%)	38 (1.16%)	23 (0.70%)	19 (0.58%)
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<p><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></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-2150-102, 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>30</td> <td>4.62</td> <td>0.68</td> <td>20 (66.67%)</td> <td>8 (26.67%)</td> <td>0 (0.00%)</td> <td>1 (3.33%)</td> <td>0 (0.00%)</td> <td>1 (3.33%)</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>3312</td> <td>4.06</td> <td>1.01</td> <td>1289 (38.92%)</td> <td>1237 (37.35%)</td> <td>411 (12.41%)</td> <td>213 (6.43%)</td> <td>83 (2.51%)</td> <td>79 (2.39%)</td> </tr> </tbody> </table>	Results for CS-2150-102, Bloomfield, Aaron S.									Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)	30	4.62	0.68	20 (66.67%)	8 (26.67%)	0 (0.00%)	1 (3.33%)	0 (0.00%)	1 (3.33%)	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)	3312	4.06	1.01	1289 (38.92%)	1237 (37.35%)	411 (12.41%)	213 (6.43%)	83 (2.51%)	79 (2.39%)
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<p><b>3. There was a reasonable level of effort expected for the credit hours received.</b></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-2150-102</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>30</td> <td>3.27</td> <td>1.53</td> <td>10 (33.33%)</td> <td>4 (13.33%)</td> <td>5 (16.67%)</td> <td>6 (20.00%)</td> <td>5 (16.67%)</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>4.09</td> <td>1.00</td> <td>1294 (39.61%)</td> <td>1392 (42.61%)</td> <td>265 (8.11%)</td> <td>204 (6.24%)</td> <td>104 (3.18%)</td> <td>8 (0.24%)</td> </tr> </tbody> </table>	Results for CS-2150-102									Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)	30	3.27	1.53	10 (33.33%)	4 (13.33%)	5 (16.67%)	6 (20.00%)	5 (16.67%)	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	4.09	1.00	1294 (39.61%)	1392 (42.61%)	265 (8.11%)	204 (6.24%)	104 (3.18%)	8 (0.24%)
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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-2150-102								
Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)
30	4.72	0.45	21 (70.00%)	8 (26.67%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (3.33%)

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)
3265	4.17	0.91	1286 (39.39%)	1278 (39.14%)	318 (9.74%)	136 (4.17%)	54 (1.65%)	193 (5.91%)

**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-2150-102								
Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)
30	4.25	1.16	5 (16.67%)	1 (3.33%)	1 (3.33%)	1 (3.33%)	0 (0.00%)	22 (73.33%)

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)
3268	3.55	1.15	487 (14.90%)	718 (21.97%)	548 (16.77%)	245 (7.50%)	138 (4.22%)	1132 (34.64%)

**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-2150-102, Bloomfield, Aaron S.								
Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)
30	4.66	0.48	19 (63.33%)	10 (33.33%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (3.33%)

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)
3310	4.03	1.01	1205 (36.40%)	1358 (41.03%)	379 (11.45%)	231 (6.98%)	89 (2.69%)	48 (1.45%)

**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-2150-102, Bloomfield, Aaron S.								
Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)
30	4.83	0.38	24 (80.00%)	5 (16.67%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (3.33%)

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)
3310	4.55	0.68	2032 (61.39%)	1025 (30.97%)	133 (4.02%)	30 (0.91%)	21 (0.63%)	69 (2.08%)

**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-2150-102, Bloomfield, Aaron S.								
Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)
30	4.79	0.41	23 (76.67%)	6 (20.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (3.33%)

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)
3305	4.35	0.83	1673 (50.62%)	1190 (36.01%)	257 (7.78%)	84 (2.54%)	41 (1.24%)	60 (1.82%)

~ 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-2150-102								
Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)
30	3.77	1.03	8 (26.67%)	7 (23.33%)	8 (26.67%)	3 (10.00%)	0 (0.00%)	4 (13.33%)

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)
3272	3.85	1.05	854 (26.10%)	1198 (36.61%)	490 (14.98%)	235 (7.18%)	104 (3.18%)	391 (11.95%)

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

Question Type: Likert

contributed by Dean of the School of Engineering and Applied Science

Results for CS-2150-102, Bloomfield, Aaron S.								
Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)
30	4.00	0.89	9 (30.00%)	13 (43.33%)	5 (16.67%)	2 (6.67%)	0 (0.00%)	1 (3.33%)

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)
3311	4.12	0.90	1224 (36.97%)	1466 (44.28%)	377 (11.39%)	158 (4.77%)	49 (1.48%)	37 (1.12%)

**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-2150-102, Bloomfield, Aaron S.								
Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)
30	4.62	0.56	19 (63.33%)	9 (30.00%)	1 (3.33%)	0 (0.00%)	0 (0.00%)	1 (3.33%)

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)
3303	4.36	0.78	1597 (48.35%)	1328 (40.21%)	199 (6.02%)	75 (2.27%)	29 (0.88%)	75 (2.27%)

**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-2150-102, Bloomfield, Aaron S.								
Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)
30	4.79	0.41	23 (76.67%)	6 (20.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (3.33%)

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)
3299	4.23	0.87	1417 (42.95%)	1290 (39.10%)	334 (10.12%)	119 (3.61%)	40 (1.21%)	99 (3.00%)

**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-2150-102					
Total	Less than 1 (NA)	1 - 3 (NA)	4 - 6 (NA)	7 - 9 (NA)	10 or more (NA)
30	0 (0.00%)	2 (6.67%)	4 (13.33%)	8 (26.67%)	16 (53.33%)

Results for SEAS, 2000-level courses					
Total	Less than 1 (NA)	1 - 3 (NA)	4 - 6 (NA)	7 - 9 (NA)	10 or more (NA)
3272	237 (7.24%)	1150 (35.15%)	1191 (36.40%)	413 (12.62%)	281 (8.59%)

~ QUESTIONS AND DETAILS ~	~ ANSWER MATRICES ~																
<p><b>14. I learned a great deal in this course.</b></p> <p>~ Question Type: Likert ~ contributed by Office of the Provost</p>	Results for CS-2150-102																
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	Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)									
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Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)										
3261	4.19	0.89	1379 (42.29%)	1349 (41.37%)	352 (10.79%)	134 (4.11%)	47 (1.44%)										
<p><b>15. Overall, this was a worthwhile course.</b></p> <p>~ Question Type: Likert ~ contributed by Office of the Provost</p>	Results for CS-2150-102																
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Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)										
3257	4.12	0.97	1341 (41.17%)	1271 (39.02%)	403 (12.37%)	169 (5.19%)	73 (2.24%)										
<p><b>16. The course's goals and requirements were defined and adhered to by the instructor.</b></p> <p>~ Question Type: Likert ~ contributed by Office of the Provost</p>	Results for CS-2150-102, Bloomfield, Aaron S.																
	<table border="1"> <thead> <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> </tr> </thead> <tbody> <tr> <td>30</td> <td>4.60</td> <td>0.56</td> <td>19 (63.33%)</td> <td>10 (33.33%)</td> <td>1 (3.33%)</td> <td>0 (0.00%)</td> <td>0 (0.00%)</td> </tr> </tbody> </table>	Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	30	4.60	0.56	19 (63.33%)	10 (33.33%)	1 (3.33%)	0 (0.00%)	0 (0.00%)
	Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)									
30	4.60	0.56	19 (63.33%)	10 (33.33%)	1 (3.33%)	0 (0.00%)	0 (0.00%)										
Results for SEAS, 2000-level courses																	
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Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)										
3300	4.29	0.78	1444 (43.76%)	1504 (45.58%)	248 (7.52%)	73 (2.21%)	31 (0.94%)										
<p><b>17. The instructor was approachable and made himself/herself available to students outside the classroom.</b></p> <p>~ Question Type: Likert ~ contributed by Office of the Provost</p>	Results for CS-2150-102, Bloomfield, Aaron S.																
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	Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)									
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Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)										
3303	4.28	0.81	1512 (45.78%)	1345 (40.72%)	336 (10.17%)	84 (2.54%)	26 (0.79%)										
<p><b>18. Overall, the instructor was an effective teacher.</b></p> <p>~ Question Type: Likert ~ contributed by Office of the Provost</p>	Results for CS-2150-102, Bloomfield, Aaron S.																
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~ 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-2150-102	
Total	Individual Answers
14	See below for Individual Results

so much learning! the level of documentation was fantastic, for example, the instructions on creating the linux image

An amazing class. One course eval where I actually mean it when I put "Strongly agree" for everything. Probably the best class I've taken at UVA. Aaron, you've truly done a great job with this course and I will definitely miss it next semester. Some parts of the course are frustrating like x86, but overall I learned so much and am glad I took this class.

Some of the labs were too long for a 3 credit course including lecture+lab. While I thoroughly enjoyed all the material I learned, this course should be at least a 4 credit course.

no additional ones

This class was the hardest class I have taken at the University. It's not that the material was difficult its that the work load was almost unbearable. The TA's were not as helpful as I would have liked. I would start the projects on my own and get as far as I could. Then I would ask the TA's during lab or office hours. After a while of trying to find the bug, they would leave me on my own without much suggestion. They're mentality seemed to be "If I can't figure it out in 5 seconds then I'm not gonna try."

Write-ups weren't as fun as coding, but there was a lot of neat material in this course

I took this course with Floryan

This lab needs to be 2 credits by itself.

Extremely time intensive and work heavy course, but worth it as you learn a lot from the material covered.

I felt like the amount of work and effort I spent for this course didn't match the amount of credits the course is worth. However I learned a lot from this course and generally it was a good course that helped me understand data structures more in depth.

The class should be more credits.

More availability for office hours from the professor. THIS CLASS SHOULD BE AT LEAST 4 CREDITS

This class was so much worked but it paid off.

The TAs were amazing. They were great. I lived at TA office hours and I love them. Some were less helpful than others but honestly over all just A+ TAs who made the class so much easier to understand and really helped me learn. A thing I really loved is how they helped you work towards the answer with little prompts that made me still feel like I was figuring it out. I really love the TAs. Like, they're great. I heard there was an anonymous feedback about how someone wished there's a way we could thank the TAs but I don't know all of their names and I couldn't agree more. I really do want to thank them. They work really hard.