

# CS 2150-105 Program & Data Representation - Spring 2016

ENGR (18267)

INSTRUCTORS: Bloomfield, Aaron S. (asb2t)

Respondents: 22 / Enrollment: 40

Summary: CS 2150-105 Program & Data Representation - Spring 2016 (18267)	
<b>Overall Course Rating</b> CS-2150-105 Mean 4.10 CS-2150-105 Std Dev 1.03 CS-2150-105 Response Count 105	<b>Overall Instructor Rating</b> INSTRUCTOR: Bloomfield, Aaron S. Mean 4.32 Std Dev 0.65 Response Count 147
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-2150-105</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>22</td> <td>4.55</td> <td>0.51</td> <td>12 (54.55%)</td> <td>10 (45.45%)</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-2150-105									Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)	22	4.55	0.51	12 (54.55%)	10 (45.45%)	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-2150-105, 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>21</td> <td>4.30</td> <td>0.66</td> <td>8 (38.10%)</td> <td>10 (47.62%)</td> <td>2 (9.52%)</td> <td>0 (0.00%)</td> <td>0 (0.00%)</td> <td>1 (4.76%)</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-2150-105, Bloomfield, Aaron S.									Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)	21	4.30	0.66	8 (38.10%)	10 (47.62%)	2 (9.52%)	0 (0.00%)	0 (0.00%)	1 (4.76%)	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-2150-105</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>20</td> <td>3.55</td> <td>1.39</td> <td>6 (30.00%)</td> <td>7 (35.00%)</td> <td>1 (5.00%)</td> <td>4 (20.00%)</td> <td>2 (10.00%)</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>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-2150-105									Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)	20	3.55	1.39	6 (30.00%)	7 (35.00%)	1 (5.00%)	4 (20.00%)	2 (10.00%)	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)	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-2150-105								
Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)
21	4.62	0.59	14 (66.67%)	6 (28.57%)	1 (4.76%)	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)
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-2150-105								
Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)
21	3.45	1.13	2 (9.52%)	3 (14.29%)	5 (23.81%)	0 (0.00%)	1 (4.76%)	10 (47.62%)

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-2150-105, Bloomfield, Aaron S.								
Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)
21	4.25	0.64	7 (33.33%)	11 (52.38%)	2 (9.52%)	0 (0.00%)	0 (0.00%)	1 (4.76%)

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-2150-105, Bloomfield, Aaron S.								
Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)
21	4.42	0.61	9 (42.86%)	9 (42.86%)	1 (4.76%)	0 (0.00%)	0 (0.00%)	2 (9.52%)

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-2150-105, Bloomfield, Aaron S.								
Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)
21	4.42	0.61	9 (42.86%)	9 (42.86%)	1 (4.76%)	0 (0.00%)	0 (0.00%)	2 (9.52%)

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-2150-105								
Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)
21	3.95	0.89	4 (19.05%)	13 (61.90%)	2 (9.52%)	0 (0.00%)	1 (4.76%)	1 (4.76%)

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-2150-105, Bloomfield, Aaron S.								
Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)
21	4.10	0.83	7 (33.33%)	10 (47.62%)	3 (14.29%)	1 (4.76%)	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)
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-2150-105, Bloomfield, Aaron S.								
Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)
21	4.37	0.60	8 (38.10%)	10 (47.62%)	1 (4.76%)	0 (0.00%)	0 (0.00%)	2 (9.52%)

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-2150-105, Bloomfield, Aaron S.								
Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)
21	4.42	0.61	9 (42.86%)	9 (42.86%)	1 (4.76%)	0 (0.00%)	0 (0.00%)	2 (9.52%)

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-2150-105					
Total	Less than 1 (NA)	1 - 3 (NA)	4 - 6 (NA)	7 - 9 (NA)	10 or more (NA)
21	0 (0.00%)	1 (4.76%)	4 (19.05%)	6 (28.57%)	10 (47.62%)

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 ~

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

Question Type: Likert  
 ~  
 contributed by Office of the Provost

Results for CS-2150-105							
Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)
21	4.67	0.58	15 (71.43%)	5 (23.81%)	1 (4.76%)	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)
3261	4.19	0.89	1379 (42.29%)	1349 (41.37%)	352 (10.79%)	134 (4.11%)	47 (1.44%)

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

Question Type: Likert  
 ~  
 contributed by Office of the Provost

Results for CS-2150-105							
Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)
20	4.40	0.60	9 (45.00%)	10 (50.00%)	1 (5.00%)	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	0.97	1341 (41.17%)	1271 (39.02%)	403 (12.37%)	169 (5.19%)	73 (2.24%)

**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-2150-105, Bloomfield, Aaron S.							
Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)
21	4.33	0.58	8 (38.10%)	12 (57.14%)	1 (4.76%)	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)
3300	4.29	0.78	1444 (43.76%)	1504 (45.58%)	248 (7.52%)	73 (2.21%)	31 (0.94%)

**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-2150-105, Bloomfield, Aaron S.							
Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)
21	3.90	0.89	6 (28.57%)	8 (38.10%)	6 (28.57%)	1 (4.76%)	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)
3303	4.28	0.81	1512 (45.78%)	1345 (40.72%)	336 (10.17%)	84 (2.54%)	26 (0.79%)

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

Question Type: Likert  
 ~  
 contributed by Office of the Provost

Results for CS-2150-105, Bloomfield, Aaron S.							
Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)
21	4.14	0.73	7 (33.33%)	10 (47.62%)	4 (19.05%)	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)
3317	4.18	0.96	1481 (44.65%)	1257 (37.90%)	348 (10.49%)	148 (4.46%)	83 (2.50%)

~ 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-2150-105	
Total	Individual Answers
11	See below for Individual Results

This is an incredibly difficult lab that doesn't have any credits directly associated with it. It is linked to CS 2150 lecture so overall there are 3 credits but I believe that 2150 should be 4 credits for its sheer workload. Also, I learned a ton so I feel reducing its content instead would be a very poor choice.

ok lab

When TAs looked up from their phones and scanned the room for questions, they magically never saw my hand.

The regular in-lab TAs were pretty good and seemed to know what they were talking about. One week a different TA came in and I'm not sure what her name was but she was kind of confusing.

The labs were some of the most difficult, time-consuming assignments that I have completed here at UVA. Although I do feel as if they aided my learning, I also felt as if they affected my studies, not only for other classes but for this class also. After spending around 12 hours, for the prelab, 4 hours for the inlab and 5 for the postlab, I find it hard to study. Especially since the labs are scheduled for the week before each midterm. Overall, this course was fair -- in grading and on tests -- however some of the labs were unnecessary (such as Lab 12).

none

This class is so hard. One bug can lead to a 2-hour long process of debugging. Unlike a career, though, I have 12 other credits I have to deal with, and that 2-hour debugging session just tanks my morale for the class completely. But that has nothing to do with the effectiveness of the class. The class itself is great. I just hope I pass it with a C-!!!! HELP!!!

I have no huge issues with the labs. I enjoyed the programming parts as little puzzles to solve. The write-ups were irritating because they were time consuming, but I understand what they were trying to do, and I don't know how they would make them better. I will say that the lab submission system should be changed to allow for multiple files to be uploaded on a single push of the "upload" button (instead of needing to click each subsequent button to upload another file), and to keep the uploaded files even when there's a compilation error (so we can simply re-upload the broken file, and not have to go through and re-select the entire list of files).

N/A

I really liked the online lectures

Bloomfield is AWESOME!!