

# CS 2150-103 Program & Data Representation - Spring 2015

ENGR (17220)

INSTRUCTORS: Bloomfield, Aaron S. (asb2t)

Respondents: 27 / Enrollment: 43

Summary: CS 2150-103 Program & Data Representation - Spring 2015 (17220)	
<b>Overall Course Rating</b> CS-2150-103 Mean 3.98 CS-2150-103 Std Dev 1.23 CS-2150-103 Response Count 134	<b>Overall Instructor Rating</b> INSTRUCTOR: Bloomfield, Aaron S. Mean 4.57 Std Dev 0.66 Response Count 187
Difference from Category Mean, Expressed in Category Standard Deviations 	Difference from Category Mean, Expressed in Category Standard Deviations 
SEAS, 2000-level courses Mean 4.02 SEAS, 2000-level courses Std Dev 1.01 SEAS, 2000-level courses Response Count 14909	SEAS, 2000-level courses Mean 4.21 SEAS, 2000-level courses Std Dev 0.93 SEAS, 2000-level courses Response Count 21524

~ 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-2150-103</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>27</td> <td>4.70</td> <td>0.54</td> <td>20 (74.07%)</td> <td>6 (22.22%)</td> <td>1 (3.70%)</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>2981</td> <td>4.34</td> <td>0.76</td> <td>1417 (47.53%)</td> <td>1267 (42.50%)</td> <td>201 (6.74%)</td> <td>60 (2.01%)</td> <td>25 (0.84%)</td> <td>11 (0.37%)</td> </tr> </tbody> </table>	Results for CS-2150-103									Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)	27	4.70	0.54	20 (74.07%)	6 (22.22%)	1 (3.70%)	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)	2981	4.34	0.76	1417 (47.53%)	1267 (42.50%)	201 (6.74%)	60 (2.01%)	25 (0.84%)	11 (0.37%)
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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-2150-103, 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>27</td> <td>4.19</td> <td>0.96</td> <td>13 (48.15%)</td> <td>8 (29.63%)</td> <td>4 (14.81%)</td> <td>2 (7.41%)</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>3088</td> <td>3.97</td> <td>1.09</td> <td>1149 (37.21%)</td> <td>1147 (37.14%)</td> <td>380 (12.31%)</td> <td>231 (7.48%)</td> <td>130 (4.21%)</td> <td>51 (1.65%)</td> </tr> </tbody> </table>	Results for CS-2150-103, Bloomfield, Aaron S.									Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)	27	4.19	0.96	13 (48.15%)	8 (29.63%)	4 (14.81%)	2 (7.41%)	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)	3088	3.97	1.09	1149 (37.21%)	1147 (37.14%)	380 (12.31%)	231 (7.48%)	130 (4.21%)	51 (1.65%)
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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-2150-103</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>27</td> <td>2.96</td> <td>1.58</td> <td>7 (25.93%)</td> <td>4 (14.81%)</td> <td>4 (14.81%)</td> <td>5 (18.52%)</td> <td>7 (25.93%)</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>2983</td> <td>4.06</td> <td>1.03</td> <td>1146 (38.42%)</td> <td>1277 (42.81%)</td> <td>248 (8.31%)</td> <td>197 (6.60%)</td> <td>109 (3.65%)</td> <td>6 (0.20%)</td> </tr> </tbody> </table>	Results for CS-2150-103									Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)	27	2.96	1.58	7 (25.93%)	4 (14.81%)	4 (14.81%)	5 (18.52%)	7 (25.93%)	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)	2983	4.06	1.03	1146 (38.42%)	1277 (42.81%)	248 (8.31%)	197 (6.60%)	109 (3.65%)	6 (0.20%)
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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-2150-103								
Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)
27	4.70	0.54	20 (74.07%)	6 (22.22%)	1 (3.70%)	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)
2981	4.17	0.92	1163 (39.01%)	1115 (37.40%)	272 (9.12%)	140 (4.70%)	46 (1.54%)	245 (8.22%)

**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-2150-103								
Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)
27	3.36	0.93	2 (7.41%)	3 (11.11%)	7 (25.93%)	2 (7.41%)	0 (0.00%)	13 (48.15%)

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)
2986	3.45	1.19	425 (14.23%)	670 (22.44%)	508 (17.01%)	273 (9.14%)	167 (5.59%)	943 (31.58%)

**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-2150-103, Bloomfield, Aaron S.								
Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)
26	4.65	0.56	18 (69.23%)	7 (26.92%)	1 (3.85%)	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)
3062	4.03	1.03	1129 (36.87%)	1244 (40.63%)	368 (12.02%)	177 (5.78%)	110 (3.59%)	34 (1.11%)

**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-2150-103, Bloomfield, Aaron S.								
Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)
27	4.81	0.48	23 (85.19%)	3 (11.11%)	1 (3.70%)	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)
3077	4.54	0.71	1927 (62.63%)	920 (29.90%)	135 (4.39%)	38 (1.23%)	22 (0.71%)	35 (1.14%)

**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-2150-103, Bloomfield, Aaron S.								
Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)
26	4.69	0.55	19 (73.08%)	6 (23.08%)	1 (3.85%)	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)
3077	4.39	0.79	1605 (52.16%)	1122 (36.46%)	214 (6.95%)	63 (2.05%)	30 (0.97%)	43 (1.40%)

~ 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-2150-103								
Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)
26	3.84	1.07	8 (30.77%)	9 (34.62%)	4 (15.38%)	4 (15.38%)	0 (0.00%)	1 (3.85%)

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)
2978	3.88	0.97	721 (24.21%)	1192 (40.03%)	484 (16.25%)	175 (5.88%)	66 (2.22%)	340 (11.42%)

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

Question Type: Likert

contributed by Dean of the School of Engineering and Applied Science

Results for CS-2150-103, Bloomfield, Aaron S.								
Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)
27	4.44	0.64	14 (51.85%)	11 (40.74%)	2 (7.41%)	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)
3079	4.12	0.91	1149 (37.32%)	1354 (43.98%)	352 (11.43%)	132 (4.29%)	60 (1.95%)	32 (1.04%)

**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-2150-103, Bloomfield, Aaron S.								
Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)
27	4.67	0.55	19 (70.37%)	7 (25.93%)	1 (3.70%)	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)
3072	4.29	0.85	1421 (46.26%)	1223 (39.81%)	242 (7.88%)	89 (2.90%)	46 (1.50%)	51 (1.66%)

**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-2150-103, Bloomfield, Aaron S.								
Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)
27	4.52	0.64	16 (59.26%)	9 (33.33%)	2 (7.41%)	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)
3069	4.16	0.91	1240 (40.40%)	1227 (39.98%)	365 (11.89%)	105 (3.42%)	62 (2.02%)	70 (2.28%)

**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-2150-103					
Total	Less than 1 (NA)	1 - 3 (NA)	4 - 6 (NA)	7 - 9 (NA)	10 or more (NA)
27	0 (0.00%)	0 (0.00%)	7 (25.93%)	7 (25.93%)	13 (48.15%)

Results for SEAS, 2000-level courses					
Total	Less than 1 (NA)	1 - 3 (NA)	4 - 6 (NA)	7 - 9 (NA)	10 or more (NA)
2988	203 (6.79%)	996 (33.33%)	1158 (38.76%)	365 (12.22%)	266 (8.90%)

~ 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-2150-103							
Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)
27	4.85	0.46	24 (88.89%)	2 (7.41%)	1 (3.70%)	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)
2964	4.17	0.92	1262 (42.58%)	1180 (39.81%)	333 (11.23%)	139 (4.69%)	50 (1.69%)

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

Question Type: Likert  
 ~  
 contributed by Office of the Provost

Results for CS-2150-103							
Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)
26	4.62	0.57	17 (65.38%)	8 (30.77%)	1 (3.85%)	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)
2980	4.12	0.98	1250 (41.95%)	1141 (38.29%)	354 (11.88%)	158 (5.30%)	77 (2.58%)

**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-2150-103, Bloomfield, Aaron S.							
Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)
27	4.59	0.57	17 (62.96%)	9 (33.33%)	1 (3.70%)	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)
3066	4.27	0.78	1316 (42.92%)	1402 (45.73%)	238 (7.76%)	86 (2.80%)	24 (0.78%)

**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-2150-103, Bloomfield, Aaron S.							
Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)
27	4.26	0.86	13 (48.15%)	9 (33.33%)	4 (14.81%)	1 (3.70%)	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)
3072	4.25	0.84	1373 (44.69%)	1252 (40.76%)	322 (10.48%)	91 (2.96%)	34 (1.11%)

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

Question Type: Likert  
 ~  
 contributed by Office of the Provost

Results for CS-2150-103, Bloomfield, Aaron S.							
Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)
27	4.59	0.57	17 (62.96%)	9 (33.33%)	1 (3.70%)	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)
3085	4.15	1.01	1383 (44.83%)	1137 (36.86%)	303 (9.82%)	164 (5.32%)	98 (3.18%)

~ 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-2150-103	
Total	Individual Answers
15	See below for Individual Results

It's my second time.... QQ

There was a lot of materials, but Professor Bloomfield taught those materials well in a short period of time.

I know it's a great feat trying to convince the CS department to provide you with more TAs, but hopefully a request like this one for more TAs at office hours will help you convince them to provide you with more resources.

Same as before, this class was great, but the prior courses should have their difficulty increased.

Most work I've ever done for a course and the most I've ever learned in a course.

<3 Bloomfield. Fuck Hashes.

This class was not easy, and its consistently large workload was tough to keep up with. Every single time I started one part of a lab late, I regretted it. That being said, I have learned so much, and have realized that I still have so much to learn from hereon. There were several times where I wanted to call it a day forever while working on some labs, and I'm not lying when I say I'm unbelievably relieved to only have one more week of lab left, but I'm also not lying when I say I really felt it was worth it. A lot of the course material was almost completely new to me: so much of it was stuff that I had heard about but never bothered learning on my own (i.e. memory management, efficiency, Linux environments) and after being forced to learn it, I now want to learn more. Seriously, such a great class. I'd recommend it to anyone and everyone who's even mildly interested in taking CS seriously.

Difficult but I learned a great deal

This lab section was incredibly helpful in solidifying my knowledge of the material, although it did take a lot of time each week. I found the information both interesting and rewarding and felt I learned a lot. The TA's were also incredibly helpful/available throughout the semester through their office hours. Thank you to the TA's for doing a great job and helping me understand this material.

Rigorous and worthwhile course. Could use some revamping in terms of more applicable? material. Learned a lot but I feel like it drew from too many different corners of CS for one class.

The labs are pretty hard and sometimes they ruin my entire weeks and health. So it would be better to have some extra credits opportunity to make up for some mistakes we accidentally make. Because for most of the time we spent twenty hours or so working labs that are worth 10 points. But a simple mistake would deduct 2-3 points from 10 points and make the entire effort seems useless. (Not useless, but it's just frustrating)

The labs that involved coding were, in nearly every way, better than the labs the involved writing a report. Answering questions about computational complexity is one thing, but to fully and thoroughly answer all of the questions and prompts of the "write a report" labs took an inordinate amount of time and spanned many more pages than suggested.

The labs helped with getting a better understanding of the material reviewed in lecture and gave much needed practice with the topics. Definitely an important part of the course experience.

This class should be a 4 credit class. I really did not have the time that it required of me to spend over 10 hours a week in office hours.

This class is worth may more than 3 credits!