

CS 2150-106 Program & Data Representation - Fall 2015

ENGR (20895)

INSTRUCTORS: Bloomfield, Aaron S. (asb2t)

Respondents: 20 / Enrollment: 34

Summary: CS 2150-106 Program & Data Representation - Fall 2015 (20895)	
Overall Course Rating CS-2150-106 Mean 3.97 CS-2150-106 Std Dev 1.38 CS-2150-106 Response Count 99 SEAS, 2000-level courses Mean 4.08 SEAS, 2000-level courses Std Dev 0.98 SEAS, 2000-level courses Response Count 16504	Overall Instructor Rating INSTRUCTOR: Bloomfield, Aaron S. Mean 4.47 Std Dev 0.72 Response Count 139 SEAS, 2000-level courses Mean 4.28 SEAS, 2000-level courses Std Dev 0.87 SEAS, 2000-level courses Response Count 24082

~ 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>20</td> <td>4.85</td> <td>0.37</td> <td>17 (85.00%)</td> <td>3 (15.00%)</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>3306</td> <td>4.38</td> <td>0.73</td> <td>1632 (49.36%)</td> <td>1375 (41.59%)</td> <td>216 (6.53%)</td> <td>55 (1.66%)</td> <td>17 (0.51%)</td> <td>11 (0.33%)</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)	20	4.85	0.37	17 (85.00%)	3 (15.00%)	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)	3306	4.38	0.73	1632 (49.36%)	1375 (41.59%)	216 (6.53%)	55 (1.66%)	17 (0.51%)	11 (0.33%)
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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>20</td> <td>4.20</td> <td>0.95</td> <td>9 (45.00%)</td> <td>8 (40.00%)</td> <td>1 (5.00%)</td> <td>2 (10.00%)</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>3456</td> <td>4.07</td> <td>1.01</td> <td>1361 (39.38%)</td> <td>1355 (39.21%)</td> <td>382 (11.05%)</td> <td>218 (6.31%)</td> <td>101 (2.92%)</td> <td>39 (1.13%)</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)	20	4.20	0.95	9 (45.00%)	8 (40.00%)	1 (5.00%)	2 (10.00%)	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)	3456	4.07	1.01	1361 (39.38%)	1355 (39.21%)	382 (11.05%)	218 (6.31%)	101 (2.92%)	39 (1.13%)
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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>20</td> <td>3.15</td> <td>1.63</td> <td>7 (35.00%)</td> <td>2 (10.00%)</td> <td>2 (10.00%)</td> <td>5 (25.00%)</td> <td>4 (20.00%)</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>3312</td> <td>4.14</td> <td>0.94</td> <td>1315 (39.70%)</td> <td>1478 (44.63%)</td> <td>250 (7.55%)</td> <td>179 (5.40%)</td> <td>79 (2.39%)</td> <td>11 (0.33%)</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)	20	3.15	1.63	7 (35.00%)	2 (10.00%)	2 (10.00%)	5 (25.00%)	4 (20.00%)	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)	3312	4.14	0.94	1315 (39.70%)	1478 (44.63%)	250 (7.55%)	179 (5.40%)	79 (2.39%)	11 (0.33%)
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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)
20	4.70	0.47	14 (70.00%)	6 (30.00%)	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)
3297	4.26	0.85	1442 (43.74%)	1324 (40.16%)	274 (8.31%)	106 (3.22%)	42 (1.27%)	109 (3.31%)

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)
19	2.83	1.83	2 (10.53%)	0 (0.00%)	1 (5.26%)	1 (5.26%)	2 (10.53%)	13 (68.42%)

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)
3296	3.54	1.20	655 (19.87%)	839 (25.46%)	638 (19.36%)	301 (9.13%)	206 (6.25%)	657 (19.93%)

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)
20	4.50	0.61	11 (55.00%)	8 (40.00%)	1 (5.00%)	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)
3431	4.17	0.91	1412 (41.15%)	1432 (41.74%)	349 (10.17%)	166 (4.84%)	53 (1.54%)	19 (0.55%)

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)
20	4.65	0.49	13 (65.00%)	7 (35.00%)	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)
3441	4.57	0.67	2186 (63.53%)	1039 (30.19%)	144 (4.18%)	30 (0.87%)	17 (0.49%)	25 (0.73%)

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)
20	4.80	0.41	16 (80.00%)	4 (20.00%)	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)
3446	4.43	0.76	1889 (54.82%)	1238 (35.93%)	197 (5.72%)	65 (1.89%)	31 (0.90%)	26 (0.75%)

~ 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)
20	3.50	1.40	6 (30.00%)	6 (30.00%)	2 (10.00%)	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)
3293	3.97	0.98	939 (28.52%)	1185 (35.99%)	454 (13.79%)	166 (5.04%)	75 (2.28%)	474 (14.39%)

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)
20	4.05	0.89	5 (25.00%)	13 (65.00%)	1 (5.00%)	0 (0.00%)	1 (5.00%)	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)
3443	4.19	0.88	1416 (41.13%)	1492 (43.33%)	322 (9.35%)	146 (4.24%)	52 (1.51%)	15 (0.44%)

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)
19	4.58	0.51	11 (57.89%)	8 (42.11%)	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)
3442	4.36	0.81	1743 (50.64%)	1317 (38.26%)	215 (6.25%)	96 (2.79%)	39 (1.13%)	32 (0.93%)

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)
20	4.53	0.77	13 (65.00%)	3 (15.00%)	3 (15.00%)	0 (0.00%)	0 (0.00%)	1 (5.00%)

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)
3423	4.21	0.88	1448 (42.30%)	1379 (40.29%)	358 (10.46%)	114 (3.33%)	54 (1.58%)	70 (2.04%)

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)
20	0 (0.00%)	1 (5.00%)	2 (10.00%)	5 (25.00%)	12 (60.00%)

Results for SEAS, 2000-level courses					
Total	Less than 1 (NA)	1 - 3 (NA)	4 - 6 (NA)	7 - 9 (NA)	10 or more (NA)
3303	208 (6.30%)	1182 (35.79%)	1240 (37.54%)	414 (12.53%)	259 (7.84%)

~ 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)
20	4.75	0.44	15 (75.00%)	5 (25.00%)	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)
3290	4.25	0.88	1529 (46.47%)	1262 (38.36%)	336 (10.21%)	115 (3.50%)	48 (1.46%)

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)
20	4.60	0.75	14 (70.00%)	5 (25.00%)	0 (0.00%)	1 (5.00%)	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)
3299	4.18	0.95	1491 (45.20%)	1203 (36.47%)	377 (11.43%)	162 (4.91%)	66 (2.00%)

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)
20	4.60	0.50	12 (60.00%)	8 (40.00%)	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)
3436	4.38	0.71	1651 (48.05%)	1525 (44.38%)	195 (5.68%)	44 (1.28%)	21 (0.61%)

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)
20	4.35	0.81	11 (55.00%)	5 (25.00%)	4 (20.00%)	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)
3445	4.30	0.81	1630 (47.31%)	1350 (39.19%)	348 (10.10%)	90 (2.61%)	27 (0.78%)

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)
20	4.65	0.49	13 (65.00%)	7 (35.00%)	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)
3455	4.21	0.95	1632 (47.24%)	1232 (35.66%)	355 (10.27%)	166 (4.80%)	70 (2.03%)

~ 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-2150-106	
Total	Individual Answers
9	See below for Individual Results

Although I understand that students are supposed to have the entire weekend to work on the prelab, and therefore they should be able to complete more work than for the rest of the lab, some students have all day commitments on the weekends and the amount of work required for the prelab could often have been a whole lab in and of itself. I have trouble understanding why the tests cover different subject matter than the students are prepared for in the labs as well. There seems to be a disconnect between the instructor's ideals and the student's actualities. For example Bloomfield does not seem to understand how much work some of the labs take for students who are newly encountering these subjects. In addition, he does not understand what they are actually taking away from the labs and lectures and ends up testing on things that he does not realize he hasn't fully communicated to students.

Thank you!

Not enough resources to get help from

Way too much work. Give some to 2110. It's not even funny.

Great course. Bloomfield really knows his stuff and you learn a ton from the labs. Definitely a worthwhile course if you're willing to put in the work.

Very methodical and clear in his teachings. Teaches what we need to know and doesn't dwell on random things that aren't valuable. Pretty clear with everything. You can tell how much work he puts into this class compared to some of the other classes I've taken where lectures were all over the place.

Great class, thank you.

I already filled this shizz out.... what the heck is this one...

While one of the most difficult courses I have taken so far, CS2150 has been one of the more valuable ones as well. I learned more in this one semester of class than I have in all of my other CS classes combined. That being said, this should either be a 4 credit class, broken into two semesters, or have slightly less labs. There were times where the workload was extremely overwhelming with other classes. Additionally I have a suggestion about the labs. While labs are crucial for solidifying the information learned in lecture, I found myself spending more time working on the "extra" parts of the lab rather than the key bits of information. I wish things such as input were introduced in a lab earlier than hashlab, because that is one of the reasons that it was so difficult.