CS 2150-102 **Program & Data Representation** - Spring 2015

ENGR (17219)

INSTRUCTORS: **Bloomfield, Aaron S. (asb2t)**

Respondents: 24 / Enrollment: 44

Summary: CS 2150-102 Program & Data Representation - Spring 2015 (17219)

Overall Course Rating

CS-2150-102 Mean 4.22
CS-2150-102 Std Dev 1.04
CS-2150-102 Response Count 119

Difference from Category Mean, Expressed in Category Standard Deviations	
	0.20

SEAS, 2000-level courses Mean 4.02
SEAS, 2000-level courses Std Dev 1.01
SEAS, 2000-level courses Response Count 14909

Overall Instructor Rating

INSTRUCTOR: Bloomfield, Aaron S.
  Mean 4.45
  Std Dev 0.81
  Response Count 167

Difference from Category Mean, Expressed in Category Standard Deviations	
	0.26

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 ~*

1. The course addressed technically rigorous subject matter consistent with the course objectives.
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Question Type: Likert
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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)
24	4.71	0.46	17 (70.83%)	7 (29.17%)	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)
2981	4.34	0.76	1417 (47.53%)	1267 (42.50%)	201 (6.74%)	60 (2.01%)	25 (0.84%)	11 (0.37%)

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.
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Question Type: Likert
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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)
24	3.91	1.08	8 (33.33%)	8 (33.33%)	5 (20.83%)	1 (4.17%)	1 (4.17%)	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)
3088	3.97	1.09	1149 (37.21%)	1147 (37.14%)	380 (12.31%)	231 (7.48%)	130 (4.21%)	51 (1.65%)

3. There was a reasonable level of effort expected for the credit hours received.
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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)
24	3.70	1.46	9 (37.50%)	7 (29.17%)	1 (4.17%)	3 (12.50%)	3 (12.50%)	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)
2983	4.06	1.03	1146 (38.42%)	1277 (42.81%)	248 (8.31%)	197 (6.60%)	109 (3.65%)	6 (0.20%)

The information in this document is private and confidential. Please handle accordingly.

~ QUESTIONS AND DETAILS ~	~ ANSWER MATRICES ~

4. The homework assignments helped me learn the subject matter.
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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)
23	4.70	0.47	16 (69.57%)	7 (30.43%)	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)
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.
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Question Type: Likert
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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)
24	3.88	0.83	2 (8.33%)	3 (12.50%)	3 (12.50%)	0 (0.00%)	0 (0.00%)	16 (66.67%)

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)
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.
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Question Type: Likert
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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)
23	4.48	0.67	13 (56.52%)	8 (34.78%)	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)
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.
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Question Type: Likert
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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)
24	4.83	0.38	20 (83.33%)	4 (16.67%)	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)
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.
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Question Type: Likert
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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)
24	4.75	0.44	18 (75.00%)	6 (25.00%)	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)
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.
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Question Type: Likert
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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)
24	3.87	1.06	5 (20.83%)	14 (58.33%)	2 (8.33%)	0 (0.00%)	2 (8.33%)	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)
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.
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Question Type: Likert
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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)
24	3.92	1.06	7 (29.17%)	12 (50.00%)	2 (8.33%)	2 (8.33%)	1 (4.17%)	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.
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Question Type: Likert
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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)
24	4.71	0.55	18 (75.00%)	5 (20.83%)	1 (4.17%)	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.
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Question Type: Likert
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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)
24	4.54	0.66	15 (62.50%)	7 (29.17%)	2 (8.33%)	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:
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Question Type: Multiple Choice
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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)
24	0 (0.00%)	0 (0.00%)	4 (16.67%)	7 (29.17%)	13 (54.17%)

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.
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Question Type: Likert
~
contributed by Office of the Provost

Results for CS-2150-102

Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)
23	4.70	0.47	16 (69.57%)	7 (30.43%)	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)
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.
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Question Type: Likert
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contributed by Office of the Provost

Results for CS-2150-102

Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)
24	4.62	0.49	15 (62.50%)	9 (37.50%)	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)
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.
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Question Type: Likert
~
contributed by Office of the Provost

Results for CS-2150-102, Bloomfield, Aaron S.

Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)
24	4.54	0.59	14 (58.33%)	9 (37.50%)	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)
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.
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Question Type: Likert
~
contributed by Office of the Provost

Results for CS-2150-102, 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)
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.
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Question Type: Likert
~
contributed by Office of the Provost

Results for CS-2150-102, Bloomfield, Aaron S.

Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)
24	4.71	0.55	18 (75.00%)	5 (20.83%)	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)
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:
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Question Type: Short Answer
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contributed by Office of the Provost

Results for CS-2150-102	
Total	Individual Answers
11	*See below for Individual Results*

This is the lab, i.e. about 50% of your grade. A lot to worry about considering the three lab assignments a week to keep you on your toes. Difficult, but important for understanding the material taught in this course.

The test questions seem to pull far too much from the lectures, and very little from the labs. Also, a number of the lecture slides are not complete, i.e. they have empty tables, so that Professor Bloomfield can fill them in during lecture. However, this is incredibly unhelpful when trying to study, as the empty tables don't get anything across to me, and I can't always go watch the recordings to figure out what goes in the tables.

The only major discrepancy I had with this class was the subject matter covered between the labs and the tests. So far, I have done exceeding well in the labs while always falling below the average on tests. If the labs were reconstrued to implement more of the knowledge portion of the tests or some separate activity accomplished the same tasks, I would be really happy with this course. Otherwise, it feels as though I'm remembering random information about data structures with no real payoff (yes, I understand that all this knowledge is necessary, but without immediate application there is little incentive to learn it).

Toughest class I've ever taken in my entire life but the sense of accomplishment I got when I finished an assignment was unbelievable. This class caused me to have countless mental breakdowns, made me want to rip all my hair out, cost me my entire weekend on top of at least 15 hours a week, shot my self esteem to the ground, and made me want to quit CS and become a homeless beggar, but I guess I would say this class was worthwhile.

If my lab shows up as a different course on SIS, WHY IS IT NOT ANOTHER CREDIT?

learned a huge amount for the labs - but, sometimes the instructions were difficult to understand and ambiguous

This lab was way too much work to not be any extra credits: this is a 4 credit class disguised as a three credit.

The exams were not graded fairly. The questions were usually not clear and the grading guidelines allowed for very little flexibility in answers. It doesn't test for what you know, it tests if you can give a very specific answer and if you phrase it in even a slightly different way you get no credit.

A really intense course. The sheer amount of work made it hard to keep up.

Despite the insane amount of time spent on the Hash lab and Huffman encoding, they were still interesting and very helpful. Also, why does everyone say the hash lab is the hardest? The hash lab was difficult, yes, but Huffman encoding was much harder, in my opinion.

I left my comments in the lecture section's evaluation. The tl;dr version is: 1) Bloomfield is an awesome professor 2) The course materials that Bloomfield has made are in-depth and very helpful. 3) The course difficulty is in a perfect sweet-spot: not too hard, not too easy. Too many other CS courses make me feel like I'm back doing highschool-level work, while this one actually made me feel like I was in college. It could be made harder, though. :P