C S 216-0001 Program Data Representation - Spring 2008

School Of Engineering And Applied Science (102h0)

INSTRUCTORS: Bloomfield, Aaron S. (asb2t)

Respondents: 69 / Enrollment: 75

Summary: C S 216-0001 Program Data Representation - Spring 2008 (102h0)

Overall Course Rating

C S-216-0001 Mean 3.89 C S-216-0001 Std Dev 1.17 C S-216-0001 Response Count 343

Difference from Category Mean, Expressed in Category Standard Deviations

-0.12

Overall Instructor Rating

INSTRUCTOR: Bloomfield, Aaron S.

Mean 4.34 Std Dev 0.91 Response Count 481

Difference from Category Mean, Expressed in Category Standard Deviations

0.21

SEAS, 200-level courses Mean 4.00

SEAS, 200-level courses Std Dev 0.93 SEAS, 200-level courses Response Count 10574

SEAS, 200-level courses Mean 4.14 SEAS, 200-level courses Std Dev 0.93

SEAS, 200-level courses Response Count 15767

~ QUESTIONS AND DETAILS ~

~ ANSWER MATRICES ~

1. The subject matter was challenging.

Question Type: Likert

contributed by Dean of the School of Engineering and Applied Science

Results for C S-216-0001										
Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)		
69	4.30	0.85	34 (49.28%)	25 (36.23%)	8 (11.59%)	1 (1.45%)	1 (1.45%)	0 (0.00%)		

Results for SEAS, 200-level courses								
Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)
2120	4.10	0.83	685 (32.31%)	1081 (50.99%)	234 (11.04%)	89 (4.20%)	24 (1.13%)	7 (0.33%)

2. The objectives of the course were clearly stated and accomplished.

Question Type: Likert

contributed by Dean of the School of Engineering and Applied Science

Results for C S-216-0001										
Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)		
68	4.35	0.81	34 (50.00%)	27 (39.71%)	5 (7.35%)	1 (1.47%)	1 (1.47%)	0 (0.00%)		

Results for SEAS, 200-level courses									
	Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)
	2115	4.09	0.82	659 (31.16%)	1119 (52.91%)	218 (10.31%)	90 (4.26%)	23 (1.09%)	6 (0.28%)

3. There was a reasonable level of effort expected for the credit hours received.

Question Type: Likert

contributed by Dean of the School of Engineering and Applied Science

Resu	Results for C S-216-0001										
То	tal	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)		
6	9	3.58	1.40	24 (34.78%)	18 (26.09%)	9 (13.04%)	10 (14.49%)	8 (11.59%)	0 (0.00%)		

Results for SEAS, 200-level courses								
Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)
2115	4.02	0.90	613 (28.98%)	1114 (52.67%)	221 (10.45%)	99 (4.68%)	53 (2.51%)	15 (0.71%)

Not

Applicable

(NA)

(1.45%)

Not

Applicable

(NA)

180

(8.51%)

Not

Applicable

(NA)

(2.94%)

Not Applicable

(NA)

315

(14.94%)

Not

Applicable

(NA)

(0.00%)

Not

Applicable

(NA)

(0.49%)

Not

Applicable

(NA)

(0.00%)

Applicable (NA)

(0.84%)

Not Applicable

(NA)

(1.47%)

Not

~ QUESTIONS AND DETAILS ~ ~ ANSWER MATRICES ~ 4. The homework assignments helped Results for CS-216-0001 me learn the subject matter. Agree (4) Total Mean Std Dev Strongly Neutral Disagree Strongly Agree (5) (2)Disagree (3)Question Type: Likert (1) 69 4.19 0.92 29 28 8 contributed by Dean of the School of Engineering (42.03%) (40.58%) $(11.\overline{5}9\%)$ (1.45%)(2.90%)and Applied Science Results for SEAS, 200-level courses Disagree (2) Strongly Total Mean Std Dev Agree (4) Neutral Strongly Disagree (1) Agree (5) (3) 2116 4 13 0.87 874 231 78 27 726 (41.30%) (3.69%)(1.28%)(34.31%)(10.92%)5. The textbook increased my Results for C S-216-0001 understanding of the material. Agree (4) Total Mean Std Dev Strongly Neutral Disagree Strongly Agree (5) Disagree (1) (3) Question Type: Likert 68 2.97 1.15 22 contributed by Dean of the School of Engineering (7.35%)(26.47%)(32.35%)(17.65%) (13.24%)and Applied Science Results for SEAS, 200-level courses Strongly Agree (5) Agree (4) Disagree (2) Mean Std Dev Strongly Disagree Total Neutral (3)(1) 2108 376 370 112 3.60 1.12 745 190 (17.84%)(35.34%)(17.55%)(9.01%)(5.31%)6. The course material was well Results for CS-216-0001, Bloomfield, Aaron S organized and developed. Total Mean Std Dev Strongly Agree (4) Neutral Disagree (2) Strongly Disagree (1) Agree (5) (3) Question Type: Likert 4.34 68 0.89 36 24 4 3 contributed by Dean of the School of Engineering (52.94%) (35.29%) (5.88%)(4.41%)(1.47%) and Applied Science Results for SEAS, 200-level courses Agree (4) Std Dev Total Mean Strongly Neutral Disagree Strongly Agree (5) (3) Disagree (1) 2243 0.93 862 956 262 106 46 (4.73%)(38.43%)(42.62%)(11.68%)(2.05%)7. The instructor was knowledgeable Results for CS-216-0001, Bloomfield, Aaron S about the subject matter. Std Dev Strongly Disagree (2) Strongly Mean Neutral Total Agree (4) Disagree (1) Agree (5) (3) Question Type: Likert 4.64 0.71 15 3 n 69 50 contributed by Dean of the School of Engineering (72.46%) (21.74%) (4.35%)(0.00%) (1.45%)and Applied Science Results for SEAS, 200-level courses Disagree (2) Agree (4) Total Mean Std Dev Strongly Neutral Strongly Agree (5) Disagree (1) (3) 2254 4.52 0.69 1346 751 98 28 (0.53%)(59.72%)(33.32%) (4.35%)(1.24%)8. The instructor was well prepared for Results for C S-216-0001, Bloomfield, Aaron S class. Agree (4) Std Dev Total Mean Strongly Neutral Disagree Strongly Agree (3) (2)Disagree Question Type: Likert (5) (1)

Agree (4) Disagree (1) Agree (5) Applicable (3) (2) (NA) 2251 4.35 170 24 0.83 1144 823 24 (50.82%)(2.93%)(1.07%)(1.07%)(36.56%)(7.55%)

20

(29.41%)

2

(2.94%)

Neutral

0

(0.00%)

Disagree

(1.47%)

Strongly

0.70

Std Dev

44

(64.71%)

Strongly

4.58

Results for SEAS, 200-level courses

Mean

68

Total

contributed by Dean of the School of Engineering

and Applied Science

~ QUESTIONS AND DETAILS ~

~ ANSWER MATRICES ~

9. The instructor (not Teaching Assistants) was accessible for individual assistance.

Question Type: Likert

contributed by Dean of the School of Engineering and Applied Science

Results for C S-216-0001, Bloomfield, Aaron S.								
Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)
69	4.22	0.94	32 (46.38%)	19 (27.54%)	11 (15.94%)	2 (2.90%)	1 (1.45%)	4 (5.80%)

Results for SEAS, 200-level courses								
Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)
2254	4.05	0.89	728 (32.30%)	833 (36.96%)	416 (18.46%)	67 (2.97%)	25 (1.11%)	185 (8.21%)

10. The grading policy was fair.

Question Type: Likert

contributed by Dean of the School of Engineering and Applied Science

Results for C S-216-0001, Bloomfield, Aaron S.									
	Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)
	69	3.87	1.08	23 (33.33%)	25 (36.23%)	12 (17.39%)	7 (10.14%)	2 (2.90%)	0 (0.00%)

Results for SEAS, 200-level courses								
Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)
2256	3.94	0.97	682 (30.23%)	993 (44.02%)	352 (15.60%)	160 (7.09%)	50 (2.22%)	19 (0.84%)

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 C S-216-0001, Bloomfield, Aaron S.										
	Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)	
	69	4.46	0.85	42 (60.87%)	19 (27.54%)	4 (5.80%)	2 (2.90%)	1 (1.45%)	1 (1.45%)	

Results for SEAS, 200-level courses								
Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)
2255	4.24	0.86	975 (43.24%)	947 (42.00%)	191 (8.47%)	76 (3.37%)	35 (1.55%)	31 (1.37%)

12. As a teacher, this instructor was better than most others in this School.

Question Type: Likert

contributed by Dean of the School of Engineering and Applied Science

Results for C S-216-0001, Bloomfield, Aaron S.									
Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)	
69	4.28	0.94	35 (50.72%)	23 (33.33%)	8 (11.59%)	1 (1.45%)	2 (2.90%)	0 (0.00%)	

Results for SEAS, 200-level courses									
Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)	
2254	3.78	1.10	683 (30.30%)	749 (33.23%)	512 (22.72%)	185 (8.21%)	93 (4.13%)	32 (1.42%)	

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 C S-216-0001								
Total	Less than 1 (NA)	1 - 3 (NA)	4 - 6 (NA)	7 - 9 (NA)	10 or more (NA)			
69	1 (1.45%)	9 (13.04%)	20 (28.99%)	18 (26.09%)	21 (30.43%)			

Results for SEAS, 200-level courses							
Total	Less than 1	1 - 3	4 - 6	7 - 9	10 or more		
	(NA)	(NA)	(NA)	(NA)	(NA)		
2120	144	826	877	192	81		
	(6.79%)	(38.96%)	(41.37%)	(9.06%)	(3.82%)		

~ QUESTIONS AND DETAILS ~				~ ANSWER	MATRICES ~			
14. I learned a great deal in this course.	Results for	C S-216-000	1					
Question Type: Likert	Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)
contributed by Office of the Provost	68	4.25	0.85	30 (44.12%)	29 (42.65%)	6 (8.82%)	2 (2.94%)	1 (1.47%)
	Results for	SEAS, 200-le	evel courses					
	Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)
	2109	4.07	0.86	682 (32.34%)	1048 (49.69%)	258 (12.23%)	95 (4.50%)	26 (1.23%)
15. Overall, this was a worthwhile	Results for	C S-216-000	1					
course. ~ Question Type: Likert	Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)
contributed by Office of the Provost	69	4.23	0.86	32 (46.38%)	24 (34.78%)	10 (14.49%)	3 (4.35%)	0 (0.00%)
	Results for	SEAS, 200-le	evel courses					
	Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)
	2112	4.04	0.93	722 (34.19%)	948 (44.89%)	294 (13.92%)	102 (4.83%)	46 (2.18%)
6. The course's goals and requirements	Results for	C S-216-000	1, Bloomfield,	Aaron S.				
were defined and adhered to by the instructor.	Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)
Question Type: Likert	68	4.37	0.75	34 (50.00%)	27 (39.71%)	5 (7.35%)	2 (2.94%)	0 (0.00%)
contributed by Office of the Provost				(00.0070)	(00.7 170)	(1.0070)	(2.5470)	(0.0070)
		SEAS, 200-le						
	Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)
	2245	4.16	0.76	756 (33.67%)	1179 (52.52%)	238 (10.60%)	57 (2.54%)	15 (0.67%)
17. The instructor was approachable	Results for	C S-216-000	1, Bloomfield,					
and made himself/herself available to students outside the classroom.	Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)
Question Type: Likert contributed by Office of the Provost	68	4.38	0.75	36 (52.94%)	23 (33.82%)	8 (11.76%)	1 (1.47%)	0 (0.00%)
	Results for	SEAS, 200-le	evel courses					
	Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)
	2249	4.07	0.85	766 (34.06%)	987 (43.89%)	412 (18.32%)	60 (2.67%)	24 (1.07%)
18. Overall, the instructor was an	Results for	C S-216-000	1, Bloomfield,	Aaron S.				
effective teacher. Question Type: Likert	Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)
contributed by Office of the Provost	68	4.44	0.76	39 (57.35%)	22 (32.35%)	5 (7.35%)	2 (2.94%)	(0.00%)
	Results for	SEAS, 200-le	evel courses					
	Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)
	2258	4.09	0.96	870 (38.53%)	930 (41.19%)	294 (13.02%)	110 (4.87%)	54 (2.39%)

~ QUES	STIONS A	ND DETA	ILS ~
			comment

~ ANSWER MATRICES ~

1 ts or observations about this course:

Question Type: Short Answer contributed by Office of the Provost

Results for C S-216-0001						
Total	Individual Answers					
23	See below for Individual Results					

for a course introducing topics as difficult as those covered in this class, Professor Bloomfield did an outstanding job of making himself available and presenting the information in a way that made it easy to understand

Heinous amount of work required for this class.

Mandating the use of a UNIX-like environment for software development has help me tremendously. Through practical examples, humor, and in-class activities it is evident that Prof. Bloomfield considers the most effective way to present class material. He is clearly focused on helping the student learn with the minimal amount of frustration.

Course is hard but yo learn a lot

the lab assignments took way to long for the amount of credit hour... shorten the labs

Bloomfield is a bit of a procrastinator... he probably should not write the exams the night before the exam, and provide more specific timeframes for distribution of assignments (i.e. not "soon"). The lab instructions are occasionally riddled with leftovers from the previous semester. Sometimes, they are also ambiguous. He also likes to talk a lot (and likes to rant). Grading of labs/homeworks is rather slow, exams are graded quickly. Other than the above, he is an excellent, dynamic, professor.

Professor Bloomfield is absolutely awesome! I have had him for 3 courses now (CS 101, CS 202, CS 216) and I am taking his CS 451 class in the Fall. He is the best teacher I have ever had; he loves teaching, knows what he is talking about, and is always there if you need something answered or if you need help with something. Every time I have had him, he has always shown these qualities. I recommend him 110%!

Professor Bloomfield's lectures were very well organized and presented, but the amount of time that students had to spend outside of class time on the lab assignments was ridiculous. I had to easily devote 20 hours a week (outside of class and lab time) to this course just to complete the prelabs and postlabs (not necessarily getting them done correctly). The amount of work that we had to do for each lab should have spanned over a month instead of a week. There was simply too much material covered in one semester for students to grasp the information and fully understand it.

Very good lecturer! Uses very visual examples to illustrate abstract concepts. My favorite was his sorting of the class using various hashing functions.

The class was definitely meant for those who had already had some prior knowledge of C++. It was hard to get used to the new language and handle the complicated homework. The homework expected too much each week.

Labs could be made more specific and directed

This has been the most informative/difficult CS course I've taken so far, but definitely worth it. In general, however, some parts of the course felt a little rough around the edges (as to be expected, given that professor Bloomfield only began teaching it last semester). The x86 labs certainly need to be rewritten to provide more examples of what the professor wants. Also, I think more time should be spent on analyzing time and space complexity- not on theory, (because that part was taught well) but on complexity analysis in practice. On the applicable assignments, I wasn't sure if I was supposed to only analyze the general algorithm that my program used, or go through each part that was dynamically constructed to fit the input and measure its complexity. A little direction there would definitely help. As much as others may gripe about IBCM, the program itself is actually fairly easy to use, (I thought). The only problem I had with it was the clurky outdated interface. Maybe you should show next year's class Intercal before they even hear about IBCM, to keep them from whining. One lab that I thought was insanely difficult, and almost kicked my ass, was Lab 6, the Hash Lab. I quite literally spent every day and night of that week desperately coding, recoding, copying from the book, copying from the slides, and crying into my often useless C++ text. I'm not sure how many others would agree with me, but I think making that one just a teensy bit easier would help out future students. Overall, although I'm not so confident of getting an amazing grade in this class, it was definitely worth the time and effort, and I appreciate how much better a coder I am now.

This course was incredibly challenging, especially for me having not programmed in over a year. Professor Bloomfield made himself very available to all the students and it really helped me. This class changed my entire perspective on computer science, and is giving me an awesome foundation for the rest of my computer science education. I think that Professor Bloomfield is by far the best instructor I have ever had, and has a gift for relating to students. I think he is an incredible asset to the faculty here, and I will take every class he ever teaches if given the opportunity!

In the beginning of the course we had to do things in lab that we did not learn in lecture until the day after, but when that material was gone over, the professor did a very good job of it. Hope to have more classes with this instructor in upcoming semesters.

There is not enough help. Office hours are often over before you get help.

None.

~ QUESTIONS AND DETAILS ~

~ ANSWER MATRICES ~

The labs were a bit much. The bulk of the work was for the pre-lab and the Monday lab section lacked as many opportunities for TA help. In addition the labs often took a long time and were frustrating, making it hard to really seem like you were getting anything from them. I'll admit that we covered a lot of material and I'm impressed at the fact that I learned all of it and I'm certainly glad that I know all of this now.

Professor Bloomfield was an excellent professor. I could tell that he spent a great deal of time preparing each lecture. My one complaint with the course is that for the amount of time that I spent on the labs, I felt that it should have been a 4-credit course. Other than that, I would recommend Professor Bloomfield to any student without any reservations.

labs took way too long, and pretty much ate up all of my time. the material in the labs was good, they just need to be shorter so everyone doesn't get so frustrated and fail all of their other classes due to lack of time. otherwise good course.

Course was difficult, however I learned a lot.

Some of the labs seemed to be more tedious than they ought to have been, e.g. the x86 labs (writeup part of it) and the hash table lab.

The book didn't have very clear examples. The labs were ludicrously long sometimes. The Professor's willingness to give extensions for assignments offsetted that at least a little bit.

I really, really do not enjoy learning CS (especially code) through Powerpoint slides. I found easier to learn how to code when I was in high school because we worked in a computer lab (similar to how 101X is run). Also, there was WAY too much homework for a 200-level course (I've heard 340 gives far less). Although I'm a CS major, I do like to take other classes outside of the CS department (and e -school) as well. Unfortunately, I didn't really get a chance to give much attention to any of those because every single week of the semester I had to deal with a long and confusing lab (I'm not a genius that can understand new topics right away), so that was a little sad.