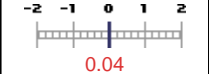
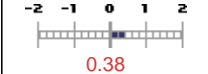


# CS 2150-101 Program & Data Representation - Spring 2015

ENGR (17218)

INSTRUCTORS: Bloomfield, Aaron S. (asb2t)

Respondents: 25 / Enrollment: 43

Summary: CS 2150-101 Program & Data Representation - Spring 2015 (17218)	
<p><b>Overall Course Rating</b></p> <p>CS-2150-101 Mean 4.06                  CS-2150-101 Std Dev 1.10                  CS-2150-101 Response Count 124</p>	<p><b>Overall Instructor Rating</b></p> <p>INSTRUCTOR: Bloomfield, Aaron S.                  Mean 4.56                  Std Dev 0.60                  Response Count 173</p>
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 2.01 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                      ~  <i>contributed by Dean of the School of Engineering and Applied Science</i></p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr style="background-color: #1a3a7a; color: white;"> <th colspan="9">Results for CS-2150-101</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> <tr> <td>25</td> <td>4.76</td> <td>0.44</td> <td>19 (76.00%)</td> <td>6 (24.00%)</td> <td>0 (0.00%)</td> <td>0 (0.00%)</td> <td>0 (0.00%)</td> <td>0 (0.00%)</td> </tr> </table> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr style="background-color: #d9d9d9;"> <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> <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> </table>	Results for CS-2150-101									Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)	25	4.76	0.44	19 (76.00%)	6 (24.00%)	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)	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                      ~  <i>contributed by Dean of the School of Engineering and Applied Science</i></p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr style="background-color: #1a3a7a; color: white;"> <th colspan="9">Results for CS-2150-101, 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> <tr> <td>24</td> <td>4.45</td> <td>0.60</td> <td>11 (45.83%)</td> <td>10 (41.67%)</td> <td>1 (4.17%)</td> <td>0 (0.00%)</td> <td>0 (0.00%)</td> <td>2 (8.33%)</td> </tr> </table> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr style="background-color: #d9d9d9;"> <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> <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> </table>	Results for CS-2150-101, Bloomfield, Aaron S.									Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)	24	4.45	0.60	11 (45.83%)	10 (41.67%)	1 (4.17%)	0 (0.00%)	0 (0.00%)	2 (8.33%)	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                      ~  <i>contributed by Dean of the School of Engineering and Applied Science</i></p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr style="background-color: #1a3a7a; color: white;"> <th colspan="9">Results for CS-2150-101</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> <tr> <td>24</td> <td>3.46</td> <td>1.35</td> <td>7 (29.17%)</td> <td>6 (25.00%)</td> <td>4 (16.67%)</td> <td>5 (20.83%)</td> <td>2 (8.33%)</td> <td>0 (0.00%)</td> </tr> </table> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr style="background-color: #d9d9d9;"> <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> <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> </table>	Results for CS-2150-101									Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)	24	3.46	1.35	7 (29.17%)	6 (25.00%)	4 (16.67%)	5 (20.83%)	2 (8.33%)	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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2983	4.06	1.03	1146 (38.42%)	1277 (42.81%)	248 (8.31%)	197 (6.60%)	109 (3.65%)	6 (0.20%)																																															

~ 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-2150-101								
Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)
25	4.64	0.49	16 (64.00%)	9 (36.00%)	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)
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-2150-101								
Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)
25	3.23	0.93	2 (8.00%)	1 (4.00%)	8 (32.00%)	2 (8.00%)	0 (0.00%)	12 (48.00%)

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)
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-2150-101, Bloomfield, Aaron S.								
Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)
25	4.57	0.51	13 (52.00%)	10 (40.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	2 (8.00%)

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-2150-101, Bloomfield, Aaron S.								
Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)
25	4.79	0.41	19 (76.00%)	5 (20.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (4.00%)

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-2150-101, Bloomfield, Aaron S.								
Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)
24	4.78	0.42	18 (75.00%)	5 (20.83%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	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)
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-2150-101								
Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)
25	3.80	1.15	8 (32.00%)	9 (36.00%)	4 (16.00%)	3 (12.00%)	1 (4.00%)	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)
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-2150-101, Bloomfield, Aaron S.								
Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)
25	4.16	0.85	10 (40.00%)	10 (40.00%)	4 (16.00%)	1 (4.00%)	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-2150-101, Bloomfield, Aaron S.								
Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)
25	4.54	0.59	14 (56.00%)	9 (36.00%)	1 (4.00%)	0 (0.00%)	0 (0.00%)	1 (4.00%)

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-2150-101, Bloomfield, Aaron S.								
Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)
25	4.67	0.48	16 (64.00%)	8 (32.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (4.00%)

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-2150-101					
Total	Less than 1 (NA)	1 - 3 (NA)	4 - 6 (NA)	7 - 9 (NA)	10 or more (NA)
25	0 (0.00%)	1 (4.00%)	5 (20.00%)	6 (24.00%)	13 (52.00%)

Results for SEAS, 2000-level courses					
Total	Less than 1 (NA)	1 - 3 (NA)	4 - 6 (NA)	7 - 9 (NA)	10 or more (NA)
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-2150-101							
Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)
25	4.80	0.41	20 (80.00%)	5 (20.00%)	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)
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-2150-101							
Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)
25	4.76	0.44	19 (76.00%)	6 (24.00%)	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)
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-2150-101, Bloomfield, Aaron S.							
Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)
25	4.68	0.48	17 (68.00%)	8 (32.00%)	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)
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-2150-101, Bloomfield, Aaron S.							
Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)
25	4.08	0.91	9 (36.00%)	11 (44.00%)	3 (12.00%)	2 (8.00%)	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.**

Question Type: Likert  
 ~  
 contributed by Office of the Provost

Results for CS-2150-101, Bloomfield, Aaron S.							
Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)
24	4.67	0.48	16 (66.67%)	8 (33.33%)	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)
3085	4.15	1.01	1383 (44.83%)	1137 (36.86%)	303 (9.82%)	164 (5.32%)	98 (3.18%)

**19. Please make any overall comments or observations about this course:**

~  
Question Type: Short Answer

~  
contributed by Office of the Provost

Results for CS-2150-101	
Total	Individual Answers
12	See below for Individual Results

One of the best teachers I have had here. One of the classes in which i learned the most.

although very rigorous and challenging, this course was extremely helpful to introducing computer science as a whole! I think I learned a lot from it and it will help me in my future tremendously.

The in-lab sessions were very useful when I needed help with the lab material. I didn't stay the entire time very often, because the extension option was very convenient. I like that we could continue on our own computers for 24 hours because it helped me maintain a more flexible schedule.

See my comments for the lecture.

I said this in the other evaluation so I'll be brief: class was great, I think test questions could have been written more clearly in several cases (ex. tables).

This class has been one of the worst but best experiences of this year. There were many times it made me want to rip all the hair off my head. There were also many times it made me want to cry tears of joy because my program finally, finally worked. I definitely learned a lot. My only suggestion is that there is more clarifications for some labs. I just finished Lab11 and that lab was one of the more unclear ones. I want to say decrease the workload, but I also want everyone after me to go through just as much work as well.

This course was the hardest I've ever taken. It made me question my life decisions thus far and broke me down to a shell of a man that I once was... BUT .. this was my favorite course I've taken so far in the CS department (sorry, Drawing 1 still takes the cake overall)... DUH DUH DUUUH seriously I've never done so crappily in a class, meaning I've never been so rigorously challenged in my life. More than anything it taught me the value of collaboration and not being afraid to ask for help, something I wish I learned way earlier on. My grade probably will be (definitely will be) the worst I've ever gotten in my life, but with great failure comes the most knowledge gained. Confucius would agree, I gained the most knowledge in the entire department. The difference in the caliber of my coding before and after the course is night and day. How I think in general about computing and processing data to perform a task has been foreva changed. I hated every second of it, but thank you for everything. This class.. it gives ya a little something called GRIT.

This should be a 4 credit class with all the hours people spend on this every week.

The c++ code should be provided for the x86 in lab and post lab. The x86 analysis should be our part. Writing a bunch of tiny programs was not helpful, took a lot of time, and did not guarantee we saw what we were supposed to be understanding. An "expected difficulty level" for each lab would be cool for time budgeting. There was a stretch where we didn't use C++ for so long we forgot how. Maybe something in-class to follow along with, just to stay fresh. Better Makefile description? I was reusing a lot of my own code, and didn't really understand it until late in the semester. In response to being lacking on TAs and TA resources--- Add project-based for credit TAing? Projects like building/improving OO queue, designing a system that makes sure people passing the class know how to code, building interactive tutorials, building the autograder. This would allow more people to take the positions, and the draw would be graded credits and projects that are job-interview worthy.

I enjoyed this course so much! I learned a great deal from all the challenging coursework. My only problem is that I felt as if the professor wasn't very polite and he seemed very impatient or irritated with me when I asked questions. He wasn't as approachable as I would have liked, so I had to depend on the TA's, but most of them do not know certain specifics about grading.

I learned a lot in this class! Professor Bloomfield is very knowledgeable and passionate about CS. I spent a lot of time doing the labs but they were worthwhile. I just have one suggestion: offer solutions for some labs (like x86), because I am still uneasy about the research we did in some of those topics.

I loved learning in this class, but the exams were unreasonably difficult.