

# CS 2150-103 Program & Data Representation - Spring 2017

ENGR (17535)

INSTRUCTORS: Bloomfield, Aaron S. (asb2t)

Respondents: 26 / Enrollment: 42

Summary: CS 2150-103 Program & Data Representation - Spring 2017 (17535)	
<b>Overall Course Rating</b> CS-2150-103 Mean 3.96 CS-2150-103 Std Dev 1.24 CS-2150-103 Response Count 125  SEAS, 2000-level courses Mean 4.01 SEAS, 2000-level courses Std Dev 1.04 SEAS, 2000-level courses Response Count 20529	<b>Overall Instructor Rating</b> INSTRUCTOR: Bloomfield, Aaron S. Mean 4.47 Std Dev 0.82 Response Count 174  SEAS, 2000-level courses Mean 4.29 SEAS, 2000-level courses Std Dev 0.86 SEAS, 2000-level courses Response Count 31834

~ 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"> <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>25</td> <td>4.68</td> <td>0.56</td> <td>18 (72.00%)</td> <td>6 (24.00%)</td> <td>1 (4.00%)</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>4105</td> <td>4.37</td> <td>0.74</td> <td>1992 (48.53%)</td> <td>1723 (41.97%)</td> <td>262 (6.38%)</td> <td>77 (1.88%)</td> <td>23 (0.56%)</td> <td>28 (0.68%)</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)	25	4.68	0.56	18 (72.00%)	6 (24.00%)	1 (4.00%)	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)	4105	4.37	0.74	1992 (48.53%)	1723 (41.97%)	262 (6.38%)	77 (1.88%)	23 (0.56%)	28 (0.68%)
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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"> <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>25</td> <td>4.35</td> <td>0.83</td> <td>12 (48.00%)</td> <td>8 (32.00%)</td> <td>2 (8.00%)</td> <td>1 (4.00%)</td> <td>0 (0.00%)</td> <td>2 (8.00%)</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>4561</td> <td>4.16</td> <td>0.96</td> <td>1912 (41.92%)</td> <td>1735 (38.04%)</td> <td>447 (9.80%)</td> <td>241 (5.28%)</td> <td>96 (2.10%)</td> <td>130 (2.85%)</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)	25	4.35	0.83	12 (48.00%)	8 (32.00%)	2 (8.00%)	1 (4.00%)	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)	4561	4.16	0.96	1912 (41.92%)	1735 (38.04%)	447 (9.80%)	241 (5.28%)	96 (2.10%)	130 (2.85%)
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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"> <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>25</td> <td>3.40</td> <td>1.66</td> <td>10 (40.00%)</td> <td>5 (20.00%)</td> <td>0 (0.00%)</td> <td>5 (20.00%)</td> <td>5 (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>4114</td> <td>4.10</td> <td>1.01</td> <td>1658 (40.30%)</td> <td>1707 (41.49%)</td> <td>322 (7.83%)</td> <td>280 (6.81%)</td> <td>128 (3.11%)</td> <td>19 (0.46%)</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)	25	3.40	1.66	10 (40.00%)	5 (20.00%)	0 (0.00%)	5 (20.00%)	5 (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)	4114	4.10	1.01	1658 (40.30%)	1707 (41.49%)	322 (7.83%)	280 (6.81%)	128 (3.11%)	19 (0.46%)
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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)
25	4.48	0.77	15 (60.00%)	8 (32.00%)	1 (4.00%)	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)
4102	4.13	0.95	1611 (39.27%)	1555 (37.91%)	457 (11.14%)	202 (4.92%)	80 (1.95%)	197 (4.80%)

**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)
25	3.25	1.06	2 (8.00%)	4 (16.00%)	7 (28.00%)	2 (8.00%)	1 (4.00%)	9 (36.00%)

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)
4109	3.49	1.20	650 (15.82%)	894 (21.76%)	684 (16.65%)	374 (9.10%)	221 (5.38%)	1286 (31.30%)

**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)
24	4.42	0.78	13 (54.17%)	9 (37.50%)	1 (4.17%)	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)	Not Applicable (NA)
4535	4.09	0.96	1730 (38.15%)	1866 (41.15%)	500 (11.03%)	254 (5.60%)	103 (2.27%)	82 (1.81%)

**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)
25	4.77	0.43	17 (68.00%)	5 (20.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	3 (12.00%)

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)
4551	4.56	0.67	2836 (62.32%)	1365 (29.99%)	176 (3.87%)	37 (0.81%)	26 (0.57%)	111 (2.44%)

**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)
25	4.77	0.43	17 (68.00%)	5 (20.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	3 (12.00%)

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)
4550	4.42	0.77	2416 (53.10%)	1620 (35.60%)	273 (6.00%)	86 (1.89%)	42 (0.92%)	113 (2.48%)

~ 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)
25	3.72	1.21	7 (28.00%)	10 (40.00%)	4 (16.00%)	2 (8.00%)	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)	Not Applicable (NA)
4099	3.80	1.09	1041 (25.40%)	1389 (33.89%)	648 (15.81%)	314 (7.66%)	154 (3.76%)	553 (13.49%)

**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)
25	3.72	1.28	9 (36.00%)	6 (24.00%)	6 (24.00%)	2 (8.00%)	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)	Not Applicable (NA)
4551	4.15	0.89	1755 (38.56%)	1949 (42.83%)	504 (11.07%)	192 (4.22%)	66 (1.45%)	85 (1.87%)

**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)
25	4.73	0.46	16 (64.00%)	6 (24.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	3 (12.00%)

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)
4550	4.38	0.77	2272 (49.93%)	1759 (38.66%)	272 (5.98%)	84 (1.85%)	47 (1.03%)	116 (2.55%)

**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)
25	4.65	0.57	16 (64.00%)	6 (24.00%)	1 (4.00%)	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)
4536	4.27	0.84	2019 (44.51%)	1799 (39.66%)	387 (8.53%)	136 (3.00%)	53 (1.17%)	142 (3.13%)

**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)
25	0 (0.00%)	2 (8.00%)	1 (4.00%)	3 (12.00%)	19 (76.00%)

Results for SEAS, 2000-level courses					
Total	Less than 1 (NA)	1 - 3 (NA)	4 - 6 (NA)	7 - 9 (NA)	10 or more (NA)
4111	350 (8.51%)	1186 (28.85%)	1536 (37.36%)	614 (14.94%)	425 (10.34%)

~ QUESTIONS AND DETAILS ~	~ ANSWER MATRICES ~																
<p><b>14. I learned a great deal in this course.</b></p> <p style="text-align: center;">~ Question Type: Likert ~ contributed by Office of the Provost</p>	<p><b>Results for CS-2150-103</b></p> <table border="1"> <thead> <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> </tr> </thead> <tbody> <tr> <td>24</td> <td>4.54</td> <td>0.72</td> <td>15 (62.50%)</td> <td>8 (33.33%)</td> <td>0 (0.00%)</td> <td>1 (4.17%)</td> <td>0 (0.00%)</td> </tr> </tbody> </table>	Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	24	4.54	0.72	15 (62.50%)	8 (33.33%)	0 (0.00%)	1 (4.17%)	0 (0.00%)
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4103	4.18	0.91	1750 (42.65%)	1673 (40.78%)	423 (10.31%)	188 (4.58%)	69 (1.68%)										
<p><b>15. Overall, this was a worthwhile course.</b></p> <p style="text-align: center;">~ Question Type: Likert ~ contributed by Office of the Provost</p>	<p><b>Results for CS-2150-103</b></p> <table border="1"> <thead> <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> </tr> </thead> <tbody> <tr> <td>25</td> <td>4.44</td> <td>0.82</td> <td>15 (60.00%)</td> <td>7 (28.00%)</td> <td>2 (8.00%)</td> <td>1 (4.00%)</td> <td>0 (0.00%)</td> </tr> </tbody> </table>	Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	25	4.44	0.82	15 (60.00%)	7 (28.00%)	2 (8.00%)	1 (4.00%)	0 (0.00%)
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4103	4.13	0.97	1727 (42.09%)	1575 (38.39%)	492 (11.99%)	216 (5.26%)	93 (2.27%)										
<p><b>16. The course's goals and requirements were defined and adhered to by the instructor.</b></p> <p style="text-align: center;">~ Question Type: Likert ~ contributed by Office of the Provost</p>	<p><b>Results for CS-2150-103, Bloomfield, Aaron S.</b></p> <table border="1"> <thead> <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> </tr> </thead> <tbody> <tr> <td>25</td> <td>4.48</td> <td>0.51</td> <td>12 (48.00%)</td> <td>13 (52.00%)</td> <td>0 (0.00%)</td> <td>0 (0.00%)</td> <td>0 (0.00%)</td> </tr> </tbody> </table>	Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	25	4.48	0.51	12 (48.00%)	13 (52.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)
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<p><b>17. The instructor was approachable and made himself/herself available to students outside the classroom.</b></p> <p style="text-align: center;">~ Question Type: Likert ~ contributed by Office of the Provost</p>	<p><b>Results for CS-2150-103, Bloomfield, Aaron S.</b></p> <table border="1"> <thead> <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> </tr> </thead> <tbody> <tr> <td>25</td> <td>4.28</td> <td>0.84</td> <td>12 (48.00%)</td> <td>9 (36.00%)</td> <td>3 (12.00%)</td> <td>1 (4.00%)</td> <td>0 (0.00%)</td> </tr> </tbody> </table>	Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	25	4.28	0.84	12 (48.00%)	9 (36.00%)	3 (12.00%)	1 (4.00%)	0 (0.00%)
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<p><b>18. Overall, the instructor was an effective teacher.</b></p> <p style="text-align: center;">~ Question Type: Likert ~ contributed by Office of the Provost</p>	<p><b>Results for CS-2150-103, Bloomfield, Aaron S.</b></p> <table border="1"> <thead> <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> </tr> </thead> <tbody> <tr> <td>25</td> <td>4.48</td> <td>0.59</td> <td>13 (52.00%)</td> <td>11 (44.00%)</td> <td>1 (4.00%)</td> <td>0 (0.00%)</td> <td>0 (0.00%)</td> </tr> </tbody> </table>	Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	25	4.48	0.59	13 (52.00%)	11 (44.00%)	1 (4.00%)	0 (0.00%)	0 (0.00%)
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~ 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

I did the other survey about Floryan. I didn't have Bloomfield.

I have the strangest feeling of Deja Vu... didn't I already do this? It's kind of annoying that there's two course evaluations... Regardless, this was a really good class. 10/10, would recommend.

This class was super hard! The assignments could seem very daunting but they weren't impossible. Bloomfield was an exceptional professor and was very helpful and patient during office hours. He's probably the best professor I've had since Professor Morris (from the APMA department). **\*\*OUR LAB TAs WERE AMAZING!!!!!!!!!!!!\*\***

The TAs for my lab section (12:30-1:45) were great! I cannot thank them enough for all of the help they have given me throughout the semester.

I didn't like how harshly the exams were graded. Being a transfer student, I felt as if it wasn't done in the UVA way then it was considered wrong, even if it was valid

I have never met Bloomfield cause I had Floryan. But the labs were good as far as teaching me the subject. I do however think they were over the top and sometimes unfair in their length. Why did we need to do a DoxyFile? That tutorial was not specific and as a student with a Mac it was almost impossible.

not having a textbook for this class was a good move. many of the tutorials were very poorly written.

I was running into personal difficulties midway through the semester. Professor Bloomfield worked with me to keep me on track with my work for the class and was very understanding. Thank you!

Very helpful in office hours. Always makes sure students understand what he means before they leave.

Solution keys to the practice exams. Add color to the lab documents to make them more readable. Break down paragraphs into bullet points.

Need more credit for work load for this course.

I think this course should definitely be worth more credits. The labs each week took a ton of time but definitely helped me learn the material much better.

Do away with IBCM, it isn't useful after college and we could just spend more time on x86

The course is full of knowledge and worthy to learn!

Probably the most I've learned out of any class I've taken so far (rising 3rd year), but also one of the most difficult classes. Grading policy was rather tight on the tests and the spike in difficulty on some of the labs was enormous. All in all, a great class, but could be done with a little more leeway in places.