

CS 4610-001 Programming Languages - Spring 2012

ENGR (20424)

INSTRUCTORS: Weimer, Westley (wrw6y)

Respondents: 14 / Enrollment: 36

Summary: CS 4610-001 Programming Languages - Spring 2012 (20424)	
Overall Course Rating CS-4610-001 Mean 4.19 CS-4610-001 Std Dev 1.12 CS-4610-001 Response Count 70	Overall Instructor Rating INSTRUCTOR: Weimer, Westley Mean 4.85 Std Dev 0.39 Response Count 98
Difference from Category Mean, Expressed in Category Standard Deviations 	Difference from Category Mean, Expressed in Category Standard Deviations
SEAS, 4000-level courses Mean 4.16 SEAS, 4000-level courses Std Dev 0.84 SEAS, 4000-level courses Response Count 6632	SEAS, 4000-level courses Mean 4.37 SEAS, 4000-level courses Std Dev 0.79 SEAS, 4000-level courses Response Count 10048

~ 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</p> <p style="text-align: center;"><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-4610-001</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>14</td> <td>4.93</td> <td>0.27</td> <td>13 (92.86%)</td> <td>1 (7.14%)</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, 4000-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>1324</td> <td>4.31</td> <td>0.71</td> <td>549 (41.47%)</td> <td>645 (48.72%)</td> <td>81 (6.12%)</td> <td>23 (1.74%)</td> <td>6 (0.45%)</td> <td>20 (1.51%)</td> </tr> </tbody> </table>	Results for CS-4610-001									Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)	14	4.93	0.27	13 (92.86%)	1 (7.14%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	Results for SEAS, 4000-level courses									Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)	1324	4.31	0.71	549 (41.47%)	645 (48.72%)	81 (6.12%)	23 (1.74%)	6 (0.45%)	20 (1.51%)
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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</p> <p style="text-align: center;"><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-4610-001, Weimer, Westley</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>14</td> <td>4.86</td> <td>0.36</td> <td>12 (85.71%)</td> <td>2 (14.29%)</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, 4000-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>1442</td> <td>4.30</td> <td>0.88</td> <td>672 (46.60%)</td> <td>492 (34.12%)</td> <td>113 (7.84%)</td> <td>44 (3.05%)</td> <td>23 (1.60%)</td> <td>98 (6.80%)</td> </tr> </tbody> </table>	Results for CS-4610-001, Weimer, Westley									Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)	14	4.86	0.36	12 (85.71%)	2 (14.29%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	Results for SEAS, 4000-level courses									Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)	1442	4.30	0.88	672 (46.60%)	492 (34.12%)	113 (7.84%)	44 (3.05%)	23 (1.60%)	98 (6.80%)
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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</p> <p style="text-align: center;"><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-4610-001</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>14</td> <td>3.57</td> <td>1.45</td> <td>6 (42.86%)</td> <td>1 (7.14%)</td> <td>3 (21.43%)</td> <td>3 (21.43%)</td> <td>1 (7.14%)</td> <td>0 (0.00%)</td> </tr> </tbody> </table> <table border="1"> <thead> <tr> <th colspan="9">Results for SEAS, 4000-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>1329</td> <td>4.31</td> <td>0.74</td> <td>567 (42.66%)</td> <td>647 (48.68%)</td> <td>70 (5.27%)</td> <td>31 (2.33%)</td> <td>10 (0.75%)</td> <td>4 (0.30%)</td> </tr> </tbody> </table>	Results for CS-4610-001									Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)	14	3.57	1.45	6 (42.86%)	1 (7.14%)	3 (21.43%)	3 (21.43%)	1 (7.14%)	0 (0.00%)	Results for SEAS, 4000-level courses									Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)	1329	4.31	0.74	567 (42.66%)	647 (48.68%)	70 (5.27%)	31 (2.33%)	10 (0.75%)	4 (0.30%)
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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-4610-001								
Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)
14	4.79	0.43	11 (78.57%)	3 (21.43%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)

Results for SEAS, 4000-level courses								
Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)
1326	4.19	0.80	457 (34.46%)	561 (42.31%)	147 (11.09%)	24 (1.81%)	13 (0.98%)	124 (9.35%)

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-4610-001								
Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)
14	3.62	1.12	4 (28.57%)	2 (14.29%)	5 (35.71%)	2 (14.29%)	0 (0.00%)	1 (7.14%)

Results for SEAS, 4000-level courses								
Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)
1325	3.77	1.04	243 (18.34%)	351 (26.49%)	207 (15.62%)	69 (5.21%)	34 (2.57%)	421 (31.77%)

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-4610-001, Weimer, Westley								
Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)
14	4.86	0.36	12 (85.71%)	2 (14.29%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)

Results for SEAS, 4000-level courses								
Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)
1430	4.22	0.90	590 (41.26%)	560 (39.16%)	113 (7.90%)	57 (3.99%)	24 (1.68%)	86 (6.01%)

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-4610-001, Weimer, Westley								
Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)
14	5.00	0.00	14 (100.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)

Results for SEAS, 4000-level courses								
Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)
1434	4.61	0.62	903 (62.97%)	404 (28.17%)	43 (3.00%)	11 (0.77%)	4 (0.28%)	69 (4.81%)

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-4610-001, Weimer, Westley								
Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)
14	4.93	0.27	13 (92.86%)	1 (7.14%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)

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Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)
1439	4.44	0.72	734 (51.01%)	508 (35.30%)	76 (5.28%)	21 (1.46%)	7 (0.49%)	93 (6.46%)

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<p>9. I received adequate preparation from the prior courses in the curriculum to be successful in this course.</p> <p style="text-align: center;">~ Question Type: Likert ~</p> <p style="text-align: center;"><i>contributed by Dean of the School of Engineering and Applied Science</i></p>	<table border="1"> <thead> <tr> <th colspan="9" style="background-color: #4f81bd; color: white;">Results for CS-4610-001</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>14</td> <td>4.00</td> <td>1.15</td> <td>5 (35.71%)</td> <td>5 (35.71%)</td> <td>2 (14.29%)</td> <td>0 (0.00%)</td> <td>1 (7.14%)</td> <td>1 (7.14%)</td> </tr> </tbody> </table> <table border="1"> <thead> <tr> <th colspan="9" style="background-color: #d9d9d9;">Results for SEAS, 4000-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>1328</td> <td>4.12</td> <td>0.86</td> <td>452 (34.04%)</td> <td>625 (47.06%)</td> <td>136 (10.24%)</td> <td>58 (4.37%)</td> <td>17 (1.28%)</td> <td>40 (3.01%)</td> </tr> </tbody> </table>	Results for CS-4610-001									Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)	14	4.00	1.15	5 (35.71%)	5 (35.71%)	2 (14.29%)	0 (0.00%)	1 (7.14%)	1 (7.14%)	Results for SEAS, 4000-level courses									Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)	1328	4.12	0.86	452 (34.04%)	625 (47.06%)	136 (10.24%)	58 (4.37%)	17 (1.28%)	40 (3.01%)
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<p>11. The instructor responded adequately to in-class questions.</p> <p style="text-align: center;">~ Question Type: Likert ~</p> <p style="text-align: center;"><i>contributed by Dean of the School of Engineering and Applied Science</i></p>	<table border="1"> <thead> <tr> <th colspan="9" style="background-color: #4f81bd; color: white;">Results for CS-4610-001, Weimer, Westley</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>14</td> <td>4.86</td> <td>0.53</td> <td>13 (92.86%)</td> <td>0 (0.00%)</td> <td>1 (7.14%)</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" style="background-color: #d9d9d9;">Results for SEAS, 4000-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>1432</td> <td>4.46</td> <td>0.70</td> <td>733 (51.19%)</td> <td>544 (37.99%)</td> <td>45 (3.14%)</td> <td>14 (0.98%)</td> <td>13 (0.91%)</td> <td>83 (5.80%)</td> </tr> </tbody> </table>	Results for CS-4610-001, Weimer, Westley									Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)	14	4.86	0.53	13 (92.86%)	0 (0.00%)	1 (7.14%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	Results for SEAS, 4000-level courses									Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)	1432	4.46	0.70	733 (51.19%)	544 (37.99%)	45 (3.14%)	14 (0.98%)	13 (0.91%)	83 (5.80%)
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<p>12. The instructor effectively used technology in support of the learning goals for this course.</p> <p style="text-align: center;">~ Question Type: Likert ~</p> <p style="text-align: center;"><i>contributed by Dean of the School of Engineering and Applied Science</i></p>	<table border="1"> <thead> <tr> <th colspan="9" style="background-color: #4f81bd; color: white;">Results for CS-4610-001, Weimer, Westley</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>14</td> <td>4.79</td> <td>0.43</td> <td>11 (78.57%)</td> <td>3 (21.43%)</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" style="background-color: #d9d9d9;">Results for SEAS, 4000-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>1432</td> <td>4.25</td> <td>0.79</td> <td>550 (38.41%)</td> <td>609 (42.53%)</td> <td>125 (8.73%)</td> <td>23 (1.61%)</td> <td>16 (1.12%)</td> <td>109 (7.61%)</td> </tr> </tbody> </table>	Results for CS-4610-001, Weimer, Westley									Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)	14	4.79	0.43	11 (78.57%)	3 (21.43%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	Results for SEAS, 4000-level courses									Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)	1432	4.25	0.79	550 (38.41%)	609 (42.53%)	125 (8.73%)	23 (1.61%)	16 (1.12%)	109 (7.61%)
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<p>13. The average number of hours per week I spent outside of class preparing for this course was:</p> <p style="text-align: center;">~ Question Type: Multiple Choice ~</p> <p style="text-align: center;"><i>contributed by Office of the Provost</i></p>	<table border="1"> <thead> <tr> <th colspan="6" style="background-color: #4f81bd; color: white;">Results for CS-4610-001</th> </tr> <tr> <th>Total</th> <th>Less than 1 (NA)</th> <th>1 - 3 (NA)</th> <th>4 - 6 (NA)</th> <th>7 - 9 (NA)</th> <th>10 or more (NA)</th> </tr> </thead> <tbody> <tr> <td>14</td> <td>0 (0.00%)</td> <td>0 (0.00%)</td> <td>4 (28.57%)</td> <td>2 (14.29%)</td> <td>8 (57.14%)</td> </tr> </tbody> </table> <table border="1"> <thead> <tr> <th colspan="6" style="background-color: #d9d9d9;">Results for SEAS, 4000-level courses</th> </tr> <tr> <th>Total</th> <th>Less than 1 (NA)</th> <th>1 - 3 (NA)</th> <th>4 - 6 (NA)</th> <th>7 - 9 (NA)</th> <th>10 or more (NA)</th> </tr> </thead> <tbody> <tr> <td>1329</td> <td>51 (3.84%)</td> <td>555 (41.76%)</td> <td>468 (35.21%)</td> <td>151 (11.36%)</td> <td>104 (7.83%)</td> </tr> </tbody> </table>	Results for CS-4610-001						Total	Less than 1 (NA)	1 - 3 (NA)	4 - 6 (NA)	7 - 9 (NA)	10 or more (NA)	14	0 (0.00%)	0 (0.00%)	4 (28.57%)	2 (14.29%)	8 (57.14%)	Results for SEAS, 4000-level courses						Total	Less than 1 (NA)	1 - 3 (NA)	4 - 6 (NA)	7 - 9 (NA)	10 or more (NA)	1329	51 (3.84%)	555 (41.76%)	468 (35.21%)	151 (11.36%)	104 (7.83%)																		
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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-4610-001	
Total	Individual Answers
12	See below for Individual Results

My most difficult course by far, but also my favorite course and the one that taught me the most.

First point: This is the most difficult class I have taken at UVA. It was time-consuming, difficult, and mildly demoralizing at times. It really shouldn't be taken with a very heavy course load. Second point: It was one of the best courses I've taken at UVA, and definitely the best CS course. The material is interesting and challenging. I have learned more about the guts of software between my source code and the electrons in the machine from this class than from any other. Furthermore, Prof. Weimer is engaging, knowledgeable, and a great teacher. Everyone should take this class. Just, you know, without taking any others at the same time.

Rigorous. Wes knows his stuff.

The best professor I have ever had. Lectures were both entertaining and valuable. A ton of work, I wish whoever takes this class much luck.

nothing more

Professor Weimer is one of the best professors I have ever had. While challenging, the course provides an excellent summary of undergraduate computer science, and I would definitely recommend this course for serious computer science students.

GREAT CLASS! Makes such a great impact on being a good programmer/software developer by being able to understand how these things work. Also the knowledge is very practical and applicable to the real world. Well organized and fantastic lectures that were both entertaining and very informative.

Best course I've taken at UVA. Don't take the Compilers practicum, though.

This is the hardest CS course offered at the undergraduate level, or so Professor Weimer told us on the first day of class, and I believe him. The class is insanely difficult and equally rewarding. Professor Weimer is an excellent teacher and I honestly learned more in this class than in any other that I have yet taken. The warnings of difficulty were more than adequate, however I still cannot help but feel the prerequisites of the class should perhaps be expanded, as I felt at a distinct disadvantage compared to many other students given my lack of experience. Overall, I do not regret taking the course even though I did not do very well: I learned a huge amount and gained a lot of experience.

I say there wasn't a reasonable amount of effort for the credit hours received because I worked much more for these credit hours than any other class. Though a lot of work, the material was made very interesting and taught very well. Taking this class was one of the best decisions of my undergrad experience. I would prefer it if Weimer could teach me every technical course.

One of the most challenging, yet rewarding classes I have taken at UVA. Really gets to the meat of CS and while it required lots of work, I feel like the all of the work that I put in helped me learn. Professor Weimer's lectures were typically clear and energetic. I never had any problems paying attention in class and was strongly encouraged to participate.

Absolutely absurd amount of work. However, this is definitely one of the best classes I have taken at this University, so I'm not bitter :) I wish we could have used OCaml for everything.