CS 4970-001 **Capstone Practicum I** - Fall 2016

ENGR (17615)

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

Respondents: 41 / Enrollment: 95

Summary: CS 4970-001 Capstone Practicum I - Fall 2016 (17615)

Overall Course Rating

CS-4970-001 Mean 4.30
CS-4970-001 Std Dev 0.71
CS-4970-001 Response Count 205

SEAS, 4000-level courses Mean 4.15
SEAS, 4000-level courses Std Dev 0.91
SEAS, 4000-level courses Response Count 10631

Overall Instructor Rating

INSTRUCTOR: Bloomfield, Aaron S.
 Mean 4.59
 Std Dev 0.57
 Response Count 287

 SEAS, 4000-level courses Mean 4.30
 SEAS, 4000-level courses Std Dev 0.84
 SEAS, 4000-level courses Response Count 15765

~ QUESTIONS AND DETAILS ~	*~ ANSWER MATRICES ~*

1. Please list any comments (pro or con) about the graduate teaching assistant here. These results will be passed onto the grad TA so that s/he will have some feedback from the course evaluations.
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Question Type: Short Answer
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contributed by Bloomfield, Aaron S. (asb2t)

Results for CS-4970-001, Bloomfield, Aaron S.	
Total	Individual Answers
22	See below for Individual Results

(answers to this question redacted since they are not about the primary instructor)

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

~ QUESTIONS AND DETAILS ~	~ ANSWER MATRICES ~
	(answers to this question redacted since they are not about the primary instructor)

2. 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-4970-001

Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)
41	4.32	0.66	16 (39.02%)	22 (53.66%)	1 (2.44%)	1 (2.44%)	0 (0.00%)	1 (2.44%)

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)
2125	4.36	0.75	1012 (47.62%)	903 (42.49%)	129 (6.07%)	38 (1.79%)	17 (0.80%)	26 (1.22%)

3. 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
~
contributed by Dean of the School of Engineering and Applied Science

Results for CS-4970-001, Bloomfield, Aaron S.

Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)
41	4.42	0.73	19 (46.34%)	14 (34.15%)	2 (4.88%)	1 (2.44%)	0 (0.00%)	5 (12.20%)

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)
2252	4.22	0.93	1004 (44.58%)	788 (34.99%)	228 (10.12%)	103 (4.57%)	35 (1.55%)	94 (4.17%)

4. There was a reasonable level of effort expected for the credit hours received.
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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-4970-001

Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)
41	4.51	0.55	22 (53.66%)	18 (43.90%)	1 (2.44%)	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)
2124	4.26	0.84	922 (43.41%)	956 (45.01%)	136 (6.40%)	63 (2.97%)	35 (1.65%)	12 (0.56%)

5. The homework assignments helped me learn 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-4970-001

Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)
41	4.11	0.86	12 (29.27%)	21 (51.22%)	3 (7.32%)	1 (2.44%)	1 (2.44%)	3 (7.32%)

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)
2129	4.18	0.90	831 (39.03%)	789 (37.06%)	222 (10.43%)	85 (3.99%)	28 (1.32%)	174 (8.17%)

~ QUESTIONS AND DETAILS ~	~ ANSWER MATRICES ~

6. 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-4970-001

Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)
41	4.00	0.89	2 (4.88%)	2 (4.88%)	2 (4.88%)	0 (0.00%)	0 (0.00%)	35 (85.37%)

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)
2125	3.68	1.08	258 (12.14%)	356 (16.75%)	287 (13.51%)	74 (3.48%)	52 (2.45%)	1098 (51.67%)

7. 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-4970-001, Bloomfield, Aaron S.

Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)
41	4.65	0.53	27 (65.85%)	12 (29.27%)	1 (2.44%)	0 (0.00%)	0 (0.00%)	1 (2.44%)

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)
2250	4.08	0.93	790 (35.11%)	957 (42.53%)	267 (11.87%)	121 (5.38%)	37 (1.64%)	78 (3.47%)

8. The instructor was knowledgeable about the subject matter.
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Question Type: Likert
~
contributed by Dean of the School of Engineering and Applied Science

Results for CS-4970-001, Bloomfield, Aaron S.

Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)
41	4.73	0.50	31 (75.61%)	9 (21.95%)	1 (2.44%)	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)
2257	4.59	0.64	1481 (65.62%)	647 (28.67%)	93 (4.12%)	13 (0.58%)	10 (0.44%)	13 (0.58%)

9. 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-4970-001, Bloomfield, Aaron S.

Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)
41	4.71	0.60	31 (75.61%)	9 (21.95%)	0 (0.00%)	1 (2.44%)	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)
2256	4.38	0.76	1124 (49.82%)	872 (38.65%)	155 (6.87%)	48 (2.13%)	12 (0.53%)	45 (1.99%)

10. 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-4970-001

Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)
41	4.30	0.69	17 (41.46%)	18 (43.90%)	5 (12.20%)	0 (0.00%)	0 (0.00%)	1 (2.44%)

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)
2128	4.04	0.93	704 (33.08%)	922 (43.33%)	288 (13.53%)	111 (5.22%)	38 (1.79%)	65 (3.05%)

~ QUESTIONS AND DETAILS ~	~ ANSWER MATRICES ~

11. The grading policy was fair.
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Question Type: Likert
~
contributed by Dean of the School of Engineering and Applied Science

Results for CS-4970-001, Bloomfield, Aaron S.

Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)
41	4.41	0.59	19 (46.34%)	20 (48.78%)	2 (4.88%)	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)
2254	4.16	0.89	876 (38.86%)	966 (42.86%)	215 (9.54%)	94 (4.17%)	38 (1.69%)	65 (2.88%)

12. 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-4970-001, Bloomfield, Aaron S.

Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)
41	4.63	0.49	26 (63.41%)	15 (36.59%)	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)
2250	4.38	0.78	1134 (50.40%)	868 (38.58%)	142 (6.31%)	38 (1.69%)	25 (1.11%)	43 (1.91%)

13. The instructor effectively used technology in support of the learning goals for this course.
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Question Type: Likert
~
contributed by Dean of the School of Engineering and Applied Science

Results for CS-4970-001, Bloomfield, Aaron S.

Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)
41	4.56	0.50	23 (56.10%)	18 (43.90%)	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)
2246	4.28	0.81	962 (42.83%)	931 (41.45%)	183 (8.15%)	55 (2.45%)	24 (1.07%)	91 (4.05%)

14. 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
~
contributed by Office of the Provost

Results for CS-4970-001

Total	Less than 1 (NA)	1 - 3 (NA)	4 - 6 (NA)	7 - 9 (NA)	10 or more (NA)
41	0 (0.00%)	9 (21.95%)	26 (63.41%)	5 (12.20%)	1 (2.44%)

Results for SEAS, 4000-level courses

Total	Less than 1 (NA)	1 - 3 (NA)	4 - 6 (NA)	7 - 9 (NA)	10 or more (NA)
2131	85 (3.99%)	746 (35.01%)	904 (42.42%)	263 (12.34%)	133 (6.24%)

15. I learned a great deal in this course.
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Question Type: Likert
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contributed by Office of the Provost

Results for CS-4970-001

Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)
41	4.20	0.81	16 (39.02%)	19 (46.34%)	4 (9.76%)	2 (4.88%)	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)
2121	4.14	0.90	839 (39.56%)	895 (42.20%)	262 (12.35%)	92 (4.34%)	33 (1.56%)

~ QUESTIONS AND DETAILS ~	~ ANSWER MATRICES ~

16. Overall, this was a worthwhile course.
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Question Type: Likert
~
contributed by Office of the Provost

Results for CS-4970-001

Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)
40	4.48	0.82	24 (60.00%)	13 (32.50%)	2 (5.00%)	0 (0.00%)	1 (2.50%)

Results for SEAS, 4000-level courses

Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)
2124	4.18	0.95	940 (44.26%)	818 (38.51%)	223 (10.50%)	90 (4.24%)	53 (2.50%)

17. 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-4970-001, Bloomfield, Aaron S.

Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)
41	4.61	0.49	25 (60.98%)	16 (39.02%)	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)
2244	4.32	0.74	1001 (44.61%)	1021 (45.50%)	168 (7.49%)	38 (1.69%)	16 (0.71%)

18. 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-4970-001, Bloomfield, Aaron S.

Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)
41	4.39	0.67	20 (48.78%)	17 (41.46%)	4 (9.76%)	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)
2251	4.32	0.85	1141 (50.69%)	794 (35.27%)	224 (9.95%)	70 (3.11%)	22 (0.98%)

19. Overall, the instructor was an effective teacher.
~
Question Type: Likert
~
contributed by Office of the Provost

Results for CS-4970-001, Bloomfield, Aaron S.

Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)
41	4.54	0.55	23 (56.10%)	17 (41.46%)	1 (2.44%)	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)
2261	4.29	0.87	1097 (48.52%)	857 (37.90%)	205 (9.07%)	66 (2.92%)	36 (1.59%)

20. Please make any overall comments or observations about this course:
~
Question Type: Short Answer
~
contributed by Office of the Provost

Results for CS-4970-001

Total	Individual Answers
20	See below for Individual Results

The first iteration goals were changed in the middle of the iteration and my group received a poor eval because we did not complete these new goals by our TA meeting, which was about a day after the goals were changed. Perhaps better preparation for the first few iterations would be useful. Also, evals based on story points is a poor way of evaluating progress because these points and their values are highly subjective.

The course is organized and structured very well, which I very much appreciate. There isn't really any confusion on when something is due, and the work is hard but fun to do.

~ QUESTIONS AND DETAILS ~	~ ANSWER MATRICES ~
	Would have been a lot more enjoyable (less stressful) if not for an unlucky draw on team members for the year-long project.

Would have been a lot more enjoyable (less stressful) if not for an unlucky draw on team members for the year-long project.

I don't feel like this is a worth-while course. I don't think that the project I am working on will be of use to anyone. I feel like when the projects were being chosen it should have been apparent that our customer had a system in place that already did what was expected of us. I don't think I learned anything from this class and did not feel motivated to care about it.

Professor Bloomfield is great at running the capstone.

I've tended to dislike the required courses in the CS curriculum, and courses that rely heavily on group work, but this course was vastly different. It is so satisfying and rewarding to know that a project I work on is actually going to be used and will help people in the community. This course also helped me farther realize what specific areas of CS I might want to go into after graduation. My positive experiences in this course are largely thanks to how well my group works together, so I deeply appreciate the intensive survey that was used to match us to our groups and projects.

I think this is an excellent way to expose CS students to the real world environment. Also, we are doing good for non-profits which is even more satisfying! I do think people (including myself) had trouble learning the framework used in the group. Although the homework assignments in the beginning were great at helping students gauge which framework they would like to work with, I don't think they helped the students learn. I understand that this was expected alone. I think a great idea to help hold students accountable for learning the framework would to have a quiz of some sort testing their knowledge on the framework after iteration 2. It would have forced us to learn more earlier on instead of slacking off a little in the beginning of the group project.

Great course

I kind of wish I didn't have to take this, but it's low stress and I like working for non-profits so Â¯_(ã)_/Â¯

N/A

If you slid by to this point without really understanding software engineering principles, you'll learn them here.

It is a lot of fun and it seems a very good use of my time to help make a difference in the community, than working on some research project or doing a project for some for profit company.

Really enjoyed the course, highly recommend as a capstone!

A lecture on good collaboration practices and using GitHub effectively would've been helpful -- this seemed like a bit of a stumbling block early in the semester.

Great class, Professor Bloomfield is awesome as usual. Not as rigid as CS 2150 (which was akin to strolling through Hell), but the experience really depends on your group. My group members were fantastic so my experience may be biased. Course is interesting and a good learning experience.

Professor Bloomfield is one of the best CS professors at UVA. SLP doesn't involve an extensive amount of lecture, but he was always available during office hours and willing to set up additional meetings if necessary.   This course (along with next semester's course, I presume) is and will continue to be a good introduction into the software development lifecycle from start to finish. Additionally, the course allows students to put as much work as they would like into the project; it's a good indicator of whether software development might be something students would like to continue doing.

I think it would be more useful to put the information in one place. I.e. have one massive slide that links to important/relevant information (like TPS reports, weekly reports, etc.). Also, I think being more flexible on iteration evaluations would be nice. Besides these two major issues, I found it to be well-organized.

The slides were helpful for organizing the many different time sensitive tasks we had throughout the semester.

At times it can be difficult to remember the various reports, hours logs, etc. that need to be turned in. That said, Prof. Bloomfield reviews upcoming due dates at the beginning of each class to help students remember what to submit.

This is probably the best CS course I have ever taken, it is well designed and executed, along with real world implications. This course should really be more expanded so that more students can take it.