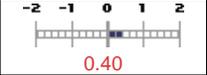
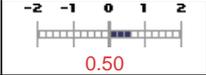


CS 4501-001 Spec Top: Computer Science - Fall 2012

ENGR (18685)

INSTRUCTORS: Bloomfield, Aaron S. (asb2t)

Respondents: 26 / Enrollment: 39

Summary: CS 4501-001 Spec Top: Computer Science - Fall 2012 (18685)	
Overall Course Rating CS-4501-001 Mean 4.46 CS-4501-001 Std Dev 0.89 CS-4501-001 Response Count 127	Overall Instructor Rating INSTRUCTOR: Bloomfield, Aaron S. Mean 4.61 Std Dev 0.63 Response Count 182
Difference from Category Mean, Expressed in Category Standard Deviations 	Difference from Category Mean, Expressed in Category Standard Deviations 
SEAS, 4000-level courses Mean 4.10 SEAS, 4000-level courses Std Dev 0.88 SEAS, 4000-level courses Response Count 8350	SEAS, 4000-level courses Mean 4.18 SEAS, 4000-level courses Std Dev 0.87 SEAS, 4000-level courses Response Count 19935

~ QUESTIONS AND DETAILS ~	~ ANSWER MATRICES ~						
<p>1. This course was a prototype this semester, and we are making it into a permanent fall course. The hope is that it will become the BS CS capstone. How can we improve it? What can we add, change, etc., in order to make this course either more worthwhile, more helpful, or more enjoyable?</p> <p style="text-align: center;">~ Question Type: Short Answer ~ contributed by Bloomfield, Aaron S. (asb2t)</p>	<table border="1"> <thead> <tr> <th colspan="2">Results for CS-4501-001, Bloomfield, Aaron S.</th> </tr> <tr> <th>Total</th> <th>Individual Answers</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">22</td> <td style="text-align: center;">See below for Individual Results</td> </tr> </tbody> </table>	Results for CS-4501-001, Bloomfield, Aaron S.		Total	Individual Answers	22	See below for Individual Results
Results for CS-4501-001, Bloomfield, Aaron S.							
Total	Individual Answers						
22	See below for Individual Results						
	<p>Although it is easier said than done, students should be dissuaded from having senioritis in this course due to the team-based nature of the class. If student engagement can be incentivized more, this course will be a better permanent addition to the curriculum.</p> <p>I think we need to have more hard deadlines which is really difficult but it is easy to put off work when there are no hard deadlines.</p> <p>I really like the idea of making this the CS capstone. Something that could improve the course would be to have more milestones for iterations. I know that teams work at different paces and have different objectives, but some sort of method to make sure progress is being made outside of customer meetings. Additionally, it might be helpful to see where other teams are at besides at the final presentations. Making some sort of recap email or digest from the weekly reports could be sent out.</p> <p>The lectures are by in large useless or too late to be useful for most groups that make good progress. The class lectures are more or less a bearable Adv Software Dev's lectures, and not much makes the class too special in the classroom.</p> <p>The class was very enjoyable. It had a nice pace and I felt as though the learning curve for starting the project was not unreasonable.</p> <p>I think it was a great idea to have the CS capstone be one where we are dealing with real-world clients, especially with NGOs. Professor Bloomfield is an excellent technical adviser for a CS capstone. My biggest challenge was learning about the technology (CakePHP, git) by myself, and I think having more technically-oriented classes and small assignments in CakePHP during the beginning of the semester would have sped this learning process.</p> <p>seemed well done</p> <p>Not really what to say here..one thing I would say is there was big learning curve to learn new technologies. If this can be improved somehow, that would be great. If you ahead of time kind of projects and technology for particular projects, may be have some pre-class work (before semester starts) for introduction to that technology. For example, people who have not taken web and mobile / have not done web development before, have really hard time contributing to group when others have done so.</p> <p>I think the current set-up is great. I initially thought the group sizes would be too big, but I think that it turned out to be a good size. Also, the class meeting/lecture dates were good: I like the way that we had lectures on Monday, customer meetings on Wednesday, and free time on Friday.</p> <p>It seemed to take forever to get the ball rolling; not sure how much of this is avoidable. It would be nice to have more regular communication since the class only meets 1 time per week.</p>						

This course is a great capstone project, and much more organized than some of the formal capstone courses! It was nice that we were given the foundations to build a working system by the end of the semester (especially helped a lot with STS assignments); however, I feel that some of the groups were rushed during the last few weeks to meet the minimum requirements. There was obviously a learning curve with CakePHP, especially since a lot of students didn't have exposure to PHP or databases. Having more tutorials/ required homework assignments would have helped. I appreciate the time that Professor Bloomfield took time to create each of the groups so that students were not only working on a project of their interest, but that at least some people in the group had the core technical skills (PHP, databases). Lectures were good, but had redundant information from our past CS courses. I liked having group meeting time during lecture in the last few weeks, but maybe it could start towards the middle of the semester in the future. Overall, though, I thought this was a great course and should definitely become a formalized CS capstone in the future.

I enjoyed it a lot this year already. As for improvements, they have already been implemented (tutorials for setting up CakePHP and a variety of other topics).

The course was pretty great as is. More guest speakers would probably be useful. Code reviews would also add a lot of value if there was a good way to implement them.

Class is very good as it is right now. Perhaps discuss more with the customers to firmly define project ahead of time.

There should be some way to encourage group members to do their fair share of the work. Even if they get penalized at the end of the course, it doesn't seem to help much. I also feel that since a lot of the projects now and in the future will focus a lot of web development that there should be more emphasis on this in the CS curriculum. Also, maybe a little more guidance in the projects would help. And last, I feel that this class, especially if it becomes required, is very susceptible to there being a high contrast in how much each group member puts into the project, and I think this should be more strongly added. It's too easy for some of the group members to just sit back while those with more experience or drive do the work and not get involved.

This class is awesome. NEVER CHANGE.

Prerequisites for this course are not enough. There were so many topics I need to learn on my own (Cakephp, general web development, version controls, other external libraries.)

I loved this class. I thought the range of projects was unique and all seemed very interesting. I really enjoyed having the mentors as resources throughout the semester. They have been fantastic and have really helped our development along. I think that maybe having the customers come every two weeks may be a little much. Oftentimes the demos go great, but there aren't too many questions in either direction after them so our customer meetings don't really go very long, which sometimes makes me feel like we are wasting the customer's time. If there were slightly longer periods of time between customer meetings, I feel like there would be more to talk about and discuss during those meetings.

1) More class meetings, since most of us are lazy about group meetings. In cs3240, we typically have at least two meetings every week, and I found that very helpful (for clarifications+incentive to work). In SLP, most members would rather meet just once every week to discuss logistics. 2) More guest speakers. 3) Organization + ask teams to set milestones and schedule to be on track. My group is just programming through the requirement document without a plan (turned out okay though). 4) Clearer standard about grading. Haven't received grades for past two iterations (due to proseptii?)
Mark C

The course was very successful already imo. All the troubles encountered in the course are just realistic problems that are encountered in software development, so I would not change anything.

Move the lectures to a later time in the day

Learning cake should be enforced more before projects are assigned. My team quickly specialized and I feel that there are huge parts of cake that I am not familiar with.

2. The course addressed technically rigorous subject matter consistent with the course objectives.

Question Type: Likert

contributed by Dean of the School of Engineering and Applied Science

Results for CS-4501-001								
Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)
26	4.65	0.49	17 (65.38%)	9 (34.62%)	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)
1668	4.26	0.75	660 (39.57%)	809 (48.50%)	138 (8.27%)	29 (1.74%)	14 (0.84%)	18 (1.08%)

~ QUESTIONS AND DETAILS ~

~ ANSWER MATRICES ~

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.

Question Type: Likert

contributed by Dean of the School of Engineering and Applied Science

Results for CS-4501-001, Bloomfield, Aaron S.								
Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)
26	4.56	0.71	16 (61.54%)	8 (30.77%)	0 (0.00%)	1 (3.85%)	0 (0.00%)	1 (3.85%)

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)
2849	4.11	0.95	924 (32.43%)	858 (30.12%)	340 (11.93%)	104 (3.65%)	42 (1.47%)	581 (20.39%)

4. 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

Results for CS-4501-001								
Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)
25	4.60	0.76	18 (72.00%)	5 (20.00%)	1 (4.00%)	1 (4.00%)	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)
1674	4.22	0.83	666 (39.78%)	788 (47.07%)	120 (7.17%)	67 (4.00%)	18 (1.08%)	15 (0.90%)

5. 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-4501-001								
Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)
26	4.48	0.73	13 (50.00%)	9 (34.62%)	0 (0.00%)	1 (3.85%)	0 (0.00%)	3 (11.54%)

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)
1673	4.18	0.83	580 (34.67%)	702 (41.96%)	163 (9.74%)	52 (3.11%)	16 (0.96%)	160 (9.56%)

6. 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-4501-001								
Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)
25	3.00	0.00	0 (0.00%)	0 (0.00%)	2 (8.00%)	0 (0.00%)	0 (0.00%)	23 (92.00%)

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)
1671	3.70	1.06	254 (15.20%)	407 (24.36%)	255 (15.26%)	89 (5.33%)	44 (2.63%)	622 (37.22%)

7. 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-4501-001, Bloomfield, Aaron S.								
Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)
26	4.42	0.86	16 (61.54%)	6 (23.08%)	3 (11.54%)	1 (3.85%)	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)
2843	4.03	0.92	755 (26.56%)	1015 (35.70%)	333 (11.71%)	110 (3.87%)	44 (1.55%)	586 (20.61%)

~ QUESTIONS AND DETAILS ~

~ ANSWER MATRICES ~

8. 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-4501-001, Bloomfield, Aaron S.								
Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)
26	4.77	0.43	20 (76.92%)	6 (23.08%)	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)
2852	4.41	0.77	1280 (44.88%)	801 (28.09%)	209 (7.33%)	27 (0.95%)	19 (0.67%)	516 (18.09%)

9. The instructor was well prepared for class.

Question Type: Likert

contributed by Dean of the School of Engineering and Applied Science

Results for CS-4501-001, Bloomfield, Aaron S.								
Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)
26	4.77	0.43	20 (76.92%)	6 (23.08%)	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)
2852	4.25	0.83	1013 (35.52%)	924 (32.40%)	258 (9.05%)	50 (1.75%)	28 (0.98%)	579 (20.30%)

10. 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-4501-001								
Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)
25	4.20	1.29	15 (60.00%)	6 (24.00%)	0 (0.00%)	2 (8.00%)	2 (8.00%)	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)
1664	4.03	0.88	494 (29.69%)	811 (48.74%)	203 (12.20%)	79 (4.75%)	28 (1.68%)	49 (2.94%)

11. The grading policy was fair.

Question Type: Likert

contributed by Dean of the School of Engineering and Applied Science

Results for CS-4501-001, Bloomfield, Aaron S.								
Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)
26	4.38	0.75	14 (53.85%)	8 (30.77%)	4 (15.38%)	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)
2849	4.04	0.89	767 (26.92%)	1046 (36.71%)	372 (13.06%)	95 (3.33%)	35 (1.23%)	534 (18.74%)

12. 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-4501-001, Bloomfield, Aaron S.								
Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)
26	4.69	0.47	18 (69.23%)	8 (30.77%)	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)
2848	4.26	0.82	1009 (35.43%)	966 (33.92%)	226 (7.94%)	49 (1.72%)	28 (0.98%)	570 (20.01%)

~ QUESTIONS AND DETAILS ~

~ ANSWER MATRICES ~

13. 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-4501-001, Bloomfield, Aaron S.								
Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)
26	4.69	0.55	19 (73.08%)	6 (23.08%)	1 (3.85%)	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)
2842	4.12	0.85	805 (28.33%)	978 (34.41%)	335 (11.79%)	65 (2.29%)	27 (0.95%)	632 (22.24%)

14. 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-4501-001					
Total	Less than 1 (NA)	1 - 3 (NA)	4 - 6 (NA)	7 - 9 (NA)	10 or more (NA)
26	0 (0.00%)	1 (3.85%)	15 (57.69%)	9 (34.62%)	1 (3.85%)

Results for SEAS, 4000-level courses					
Total	Less than 1 (NA)	1 - 3 (NA)	4 - 6 (NA)	7 - 9 (NA)	10 or more (NA)
1674	100 (5.97%)	609 (36.38%)	664 (39.67%)	213 (12.72%)	88 (5.26%)

15. I learned a great deal in this course.

Question Type: Likert

contributed by Office of the Provost

Results for CS-4501-001							
Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)
26	4.42	0.86	15 (57.69%)	9 (34.62%)	0 (0.00%)	2 (7.69%)	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)
1661	4.15	0.88	641 (38.59%)	744 (44.79%)	179 (10.78%)	77 (4.64%)	20 (1.20%)

16. Overall, this was a worthwhile course.

Question Type: Likert

contributed by Office of the Provost

Results for CS-4501-001							
Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)
26	4.65	0.69	19 (73.08%)	6 (23.08%)	0 (0.00%)	1 (3.85%)	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)
1671	4.18	0.93	712 (42.61%)	693 (41.47%)	157 (9.40%)	69 (4.13%)	40 (2.39%)

17. 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-4501-001, Bloomfield, Aaron S.							
Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)
26	4.65	0.56	18 (69.23%)	7 (26.92%)	1 (3.85%)	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)
2830	3.91	1.02	891 (31.48%)	1135 (40.11%)	617 (21.80%)	43 (1.52%)	144 (5.09%)

~ QUESTIONS AND DETAILS ~

~ ANSWER MATRICES ~

18. 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-4501-001, Bloomfield, Aaron S.							
Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)
26	4.73	0.53	20 (76.92%)	5 (19.23%)	1 (3.85%)	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)
2836	3.99	1.00	1050 (37.02%)	976 (34.41%)	653 (23.03%)	58 (2.05%)	99 (3.49%)

19. Overall, the instructor was an effective teacher.

Question Type: Likert

contributed by Office of the Provost

Results for CS-4501-001, Bloomfield, Aaron S.							
Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)
26	4.65	0.63	19 (73.08%)	5 (19.23%)	2 (7.69%)	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)
2844	3.97	0.98	999 (35.13%)	1006 (35.37%)	688 (24.19%)	65 (2.29%)	86 (3.02%)

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

Question Type: Short Answer

contributed by Office of the Provost

Results for CS-4501-001	
Total	Individual Answers
15	See below for Individual Results

Great course. One of my most favorite courses @ UVA.

I think this class is a very good idea. Not only does it allow students to explore the connection of academics to real-life CS work, but also help the local nonprofits around this area. Mark C.

Bloomfield taught this class brilliantly, just as he does all his classes. I'm glad it was him teaching this.

It is a great class that I hope to see become a required course for CS majors. The experiences I have had from interacting with the customer and working on a real project has proven to be invaluable when interviewing for jobs.

This is an effective and worthwhile course; if student engagement is incentivized, it will be a good capstone course in the future.

Glad that this course was available as a capstone this year.

Best class ever. Recommend to all.

See you next semester, looking forward to it.

Great learning experience and I definitely feel like this course will become an excellent capstone course.

This a phenomenal course. We are truly learning valuable software engineering and development skills that will help us in our professional lives after school. I find that I learn best when I am truly interested and involved with a meaningful project, and SLP has provided that for me. I think this class is by far the best CS course we have at the University. I have learned more this semester and enjoyed my work more than any other course during my time at UVA. We need more courses like this in the CS department. I can't overstate enough how good Professor Bloomfield is as a teacher. He is one of the best resources I have had at UVA and does a great job of helping you understand the material. He truly cares about his students and that is so nice to see. This class should become the CS capstone and I really hope to see more introductory level CS classes begin to follow the semester-long project framework.

Course was one of the most useful and worthwhile cs experiences I have had. Bloomfield is an incredible professor.

This class has been such a great and unique experience -- looking forward to taking it again next semester!

Course was great! Everything went fairly well. One thing I would like next versions to have is better instructions on how to accurately deal with story points and not overestimate.

*~ QUESTIONS AND DETAILS ~**~ ANSWER MATRICES ~*

It's really hard to tell if you're doing things correctly with this course, and you don't get much feedback on how you're doing either. It's unclear to me if I'm doing well in this class or not.

Very worthwhile class, whether you take it as your CS senior thesis project or as an elective. Having an NGO as a real-world client made the students more technically proficient as software engineers, and also provided a way to give back to the community using the skills they have as programmers. Bloomfield is a great professor and technical adviser, and is very open about the various changes in requirements, deadlines, software issues, etc. that come up during development. This course is a must-take.