CS 6240-001 **Software Engineering** - Fall 2016

ENGR (19419)

INSTRUCTORS: **Ray, Baishakhi (br8jr)**

Respondents: 8 / Enrollment: 22

Summary: CS 6240-001 Software Engineering - Fall 2016 (19419)

Overall Course Rating

CS-6240-001 Mean 4.46
CS-6240-001 Std Dev 0.65
CS-6240-001 Response Count 40

SEAS, 6000-level courses Mean 4.36
SEAS, 6000-level courses Std Dev 0.86
SEAS, 6000-level courses Response Count 3678

Overall Instructor Rating

INSTRUCTOR: Ray, Baishakhi
Mean 4.48
Std Dev 0.74
Response Count 56

SEAS, 6000-level courses Mean 4.47
SEAS, 6000-level courses Std Dev 0.77
SEAS, 6000-level courses Response Count 5176

~ QUESTIONS AND DETAILS ~	*~ ANSWER MATRICES ~*

1. 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-6240-001

Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)
8	4.38	0.52	3 (37.50%)	5 (62.50%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)

Results for SEAS, 6000-level courses

Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)
734	4.60	0.62	479 (65.26%)	218 (29.70%)	24 (3.27%)	6 (0.82%)	2 (0.27%)	5 (0.68%)

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.
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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-6240-001, Ray, Baishakhi

Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)
8	4.25	1.04	4 (50.00%)	3 (37.50%)	0 (0.00%)	1 (12.50%)	0 (0.00%)	0 (0.00%)

Results for SEAS, 6000-level courses

Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)
737	4.29	0.94	390 (52.92%)	218 (29.58%)	71 (9.63%)	41 (5.56%)	9 (1.22%)	8 (1.09%)

3. 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-6240-001

Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)
8	4.50	0.53	4 (50.00%)	4 (50.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)

Results for SEAS, 6000-level courses

Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)
736	4.43	0.80	414 (56.25%)	248 (33.70%)	42 (5.71%)	17 (2.31%)	8 (1.09%)	7 (0.95%)

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

~ QUESTIONS AND DETAILS ~	~ ANSWER MATRICES ~

4. 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-6240-001

Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)
8	4.00	1.00	2 (25.00%)	1 (12.50%)	2 (25.00%)	0 (0.00%)	0 (0.00%)	3 (37.50%)

Results for SEAS, 6000-level courses

Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)
736	4.44	0.79	412 (55.98%)	219 (29.76%)	51 (6.93%)	19 (2.58%)	4 (0.54%)	31 (4.21%)

5. 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-6240-001

Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)
8	5.00	NA	1 (12.50%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	7 (87.50%)

Results for SEAS, 6000-level courses

Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)
737	4.14	0.99	283 (38.40%)	202 (27.41%)	98 (13.30%)	29 (3.93%)	14 (1.90%)	111 (15.06%)

6. 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-6240-001, Ray, Baishakhi

Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)
8	4.00	0.93	3 (37.50%)	2 (25.00%)	3 (37.50%)	0 (0.00%)	0 (0.00%)	0 (0.00%)

Results for SEAS, 6000-level courses

Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)
740	4.31	0.88	373 (50.41%)	255 (34.46%)	63 (8.51%)	30 (4.05%)	9 (1.22%)	10 (1.35%)

7. The instructor was knowledgeable about 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-6240-001, Ray, Baishakhi

Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)
8	5.00	0.00	8 (100.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)

Results for SEAS, 6000-level courses

Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)
742	4.70	0.53	540 (72.78%)	171 (23.05%)	21 (2.83%)	0 (0.00%)	1 (0.13%)	9 (1.21%)

8. 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-6240-001, Ray, Baishakhi

Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)
8	4.38	0.74	4 (50.00%)	3 (37.50%)	1 (12.50%)	0 (0.00%)	0 (0.00%)	0 (0.00%)

Results for SEAS, 6000-level courses

Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)
738	4.59	0.65	478 (64.77%)	210 (28.46%)	34 (4.61%)	4 (0.54%)	3 (0.41%)	9 (1.22%)

~ QUESTIONS AND DETAILS ~	~ ANSWER MATRICES ~

9. 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-6240-001

Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)
8	5.00	0.00	4 (50.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	4 (50.00%)

Results for SEAS, 6000-level courses

Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)
735	4.13	1.01	292 (39.73%)	219 (29.80%)	93 (12.65%)	33 (4.49%)	17 (2.31%)	81 (11.02%)

10. The grading policy was fair.
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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-6240-001, Ray, Baishakhi

Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)
8	4.62	0.52	5 (62.50%)	3 (37.50%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)

Results for SEAS, 6000-level courses

Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)
740	4.38	0.81	393 (53.11%)	253 (34.19%)	56 (7.57%)	17 (2.30%)	8 (1.08%)	13 (1.76%)

11. 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-6240-001, Ray, Baishakhi

Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)
8	4.75	0.46	6 (75.00%)	2 (25.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)

Results for SEAS, 6000-level courses

Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)
739	4.61	0.64	489 (66.17%)	201 (27.20%)	30 (4.06%)	6 (0.81%)	2 (0.27%)	11 (1.49%)

12. The instructor effectively used technology in support of the learning goals for 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-6240-001, Ray, Baishakhi

Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)
8	4.38	0.74	4 (50.00%)	3 (37.50%)	1 (12.50%)	0 (0.00%)	0 (0.00%)	0 (0.00%)

Results for SEAS, 6000-level courses

Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)
740	4.44	0.78	423 (57.16%)	223 (30.14%)	60 (8.11%)	13 (1.76%)	5 (0.68%)	16 (2.16%)

13. 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
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contributed by Office of the Provost

Results for CS-6240-001

Total	Less than 1 (NA)	1 - 3 (NA)	4 - 6 (NA)	7 - 9 (NA)	10 or more (NA)
8	1 (12.50%)	6 (75.00%)	0 (0.00%)	1 (12.50%)	0 (0.00%)

Results for SEAS, 6000-level courses

Total	Less than 1 (NA)	1 - 3 (NA)	4 - 6 (NA)	7 - 9 (NA)	10 or more (NA)
738	42 (5.69%)	172 (23.31%)	274 (37.13%)	155 (21.00%)	95 (12.87%)

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~ QUESTIONS AND DETAILS ~	~ ANSWER MATRICES ~

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

Results for CS-6240-001

Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)
8	4.12	0.83	3 (37.50%)	3 (37.50%)	2 (25.00%)	0 (0.00%)	0 (0.00%)

Results for SEAS, 6000-level courses

Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)
731	4.40	0.78	400 (54.72%)	252 (34.47%)	56 (7.66%)	20 (2.74%)	3 (0.41%)

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

Results for CS-6240-001

Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)
8	4.12	1.13	4 (50.00%)	2 (25.00%)	1 (12.50%)	1 (12.50%)	0 (0.00%)

Results for SEAS, 6000-level courses

Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)
735	4.43	0.79	427 (58.10%)	225 (30.61%)	59 (8.03%)	21 (2.86%)	3 (0.41%)

16. 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-6240-001, Ray, Baishakhi

Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)
8	4.38	0.74	4 (50.00%)	3 (37.50%)	1 (12.50%)	0 (0.00%)	0 (0.00%)

Results for SEAS, 6000-level courses

Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)
737	4.49	0.72	439 (59.57%)	236 (32.02%)	45 (6.11%)	16 (2.17%)	1 (0.14%)

17. 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-6240-001, Ray, Baishakhi

Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)
8	4.50	0.53	4 (50.00%)	4 (50.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)

Results for SEAS, 6000-level courses

Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)
743	4.52	0.71	463 (62.31%)	221 (29.74%)	47 (6.33%)	9 (1.21%)	3 (0.40%)

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

Results for CS-6240-001, Ray, Baishakhi

Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)
8	4.50	0.53	4 (50.00%)	4 (50.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)

Results for SEAS, 6000-level courses

Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)
740	4.49	0.77	460 (62.16%)	209 (28.24%)	50 (6.76%)	17 (2.30%)	4 (0.54%)

~ QUESTIONS AND DETAILS ~	~ ANSWER MATRICES ~

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

Results for CS-6240-001

Total	Individual Answers
5	*See below for Individual Results*

I think this course is very useful and I have learned a lot of things. Professor Ray gives some lectures for fundamental knowledge, assigns us papers to read and present and also discusses questions with us, which are great.

I didn't know exactly what to expect from this class going in to it. My preconceived notion of software engineering was that bug detection was merely a single piece of the puzzle, and that you also had to consider project management and development frameworks, too. This course primarily focused on bug detection (~12 weeks) with a little bit of testing at the end (but still geared towards bug detection). Being new to software engineering, I thought picking a project was fairly difficult since I have no experience with testing tools or managing enterprise-size codebases. I think the project could be more narrowly drawn with more incremental deliverables to really increase enthusiasm and engagement from everyone in the class. Overall, learned a lot.

My main problem with the class was the the content. The title of the course was software engineering but we spent all of our time focused on a very small subset of software engineering which was finding bugs using static analysis and dynamic methods. This is fine for the topic of a class but this felt more like a special topics course than a software engineering course. I found the papers to be repetitive because they all pretty much talk about the same thing (this is partly due to the tiny scope the course is limited to). In particular the papers in the testing part of the class were extremely repetitive because KLEE, DART, and SAGE are all really the same thing. I think we should have only read one of them. I think the scope of the class should widen dramatically to encompass the entire software engineering spectrum which I know makes the instructor uncomfortable because she knows the parts we focused on the most but the limited scope of the class greatly diminished what I was able to take away from it.

I really enjoyed doing this course. I worked in software test automation before but was never aware of all the research that was going on and the available open source tools. Knowledge of these tools would have simplified my job then. I hope that my learnings over this course would aid me in building better software systems in future.