#### CS 2110-001 Software Development Methods - Fall 2013

ENGR (17669)

INSTRUCTORS: Tychonievich, Luther (lat7h)

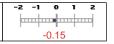
Respondents: 84 / Enrollment: 118

#### Summary: CS 2110-001 Software Development Methods - Fall 2013 (17669)

#### **Overall Course Rating**

CS-2110-001 Mean 3.94 CS-2110-001 Std Dev 1.01 CS-2110-001 Response Count 416

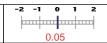
Difference from Category Mean, Expressed in Category Standard Deviations



#### **Overall Instructor Rating**

INSTRUCTOR: Tychonievich, Luther Mean 4.29 Std Dev 0.81 Response Count 587

Difference from Category Mean, Expressed in Category Standard Deviations



SEAS, 2000-level courses Mean 4.09 SEAS, 2000-level courses Std Dev 0.96

SEAS, 2000-level courses Response Count 14500

SEAS, 2000-level courses Mean 4.25 SEAS, 2000-level courses Std Dev 0.89

SEAS, 2000-level courses Response Count 22800

#### ~ QUESTIONS AND DETAILS ~

#### ~ ANSWER MATRICES ~

# 1. 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-2110-001											
Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)			
81	4.32	0.69	34 (41.98%)	41 (50.62%)	4 (4.94%)	2 (2.47%)	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)			
2902	4.41	0.67	1432 (49.35%)	1271 (43.80%)	145 (5.00%)	35 (1.21%)	7 (0.24%)	12 (0.41%)			

# 2. The instructor used methods other than/in addition to traditional lectures (for example, active learning, in-class problems, collaborative learning, inclass discussion) effectively in this course.

Question Type: Likert

contributed by Dean of the School of Engineering and Applied Science

Results for CS-2110-001, Tychonievich, Luther										
Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)		
84	4.12	0.90	33 (39.29%)	32 (38.10%)	14 (16.67%)	3 (3.57%)	1 (1.19%)	1 (1.19%)		

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)		
3264	4.06	1.04	1244 (38.11%)	1161 (35.57%)	357 (10.94%)	196 (6.00%)	104 (3.19%)	202 (6.19%)		

### 3. 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-2110-001												
Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)				
84	4.07	0.93	29 (34.52%)	40 (47.62%)	9 (10.71%)	4 (4.76%)	2 (2.38%)	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)	
2904	4.20	0.90	1229 (42.32%)	1263 (43.49%)	213 (7.33%)	136 (4.68%)	55 (1.89%)	8 (0.28%)	

Not

Applicable

(NA)

(0.00%)

Not

Applicable

(NA)

92

(3.17%)

Not

Applicable

(NA)

(0.00%)

Not Applicable

(NA)

430

(14.84%)

Not

Applicable

(NA)

(0.00%)

Not

Applicable

(NA)

189

(5.80%)

Not

Applicable

(NA)

(0.00%)

Applicable (NA)

173

(5.31%)

#### ~ QUESTIONS AND DETAILS ~ ~ ANSWER MATRICES ~ 4. The homework assignments helped Results for CS-2110-001 me learn the subject matter. Disagree (2) Agree (4) Total Mean Std Dev Strongly Neutral Strongly Agree (5) Disagree (3)Question Type: Likert <u>(1)</u> 84 4.04 0.88 26 42 10 5 contributed by Dean of the School of Engineering (30.95%) (50.00%) (11.90%)(5.95%)(1.19%)and Applied Science Results for SEAS, 2000-level courses Disagree (2) Agree (4) Mean Std Dev Strongly Total Neutral Strongly Disagree (1) Agree (5) (3) 2900 4.24 0.86 1237 1170 269 40 92 (40.34%) (3.17%)(42.66%)(9.28%)(1.38%)5. The textbook increased my Results for CS-2110-001 understanding of the material. Agree (4) Total Mean Std Dev Strongly Neutral Disagree Strongly Agree (5) Disagree (1) (3) Question Type: Likert 84 3.35 1.11 25 contributed by Dean of the School of Engineering (15.48%)(32.14%) (29.76%)(16.67%) (5.95%) and Applied Science Results for SEAS, 2000-level courses Strongly Agree (5) Disagree (2) Mean Std Dev Agree (4) Strongly Disagree Total Neutral (3)(1) 2897 3.54 626 149 1.14 551 833 308 (19.02%) (28.75%) (21.61%)(10.63%)(5.14%)6. The course material was well Results for CS-2110-001, Tychonievich, Luther organized and developed. Total Mean Std Dev Strongly Agree (4) Neutral Disagree (2) Strongly Disagree (1) Agree (5) (3) Question Type: Likert 84 3.96 0.88 24 39 16 contributed by Dean of the School of Engineering (4.76%) (28.57%) (46.43%) (19.05%) (1.19%) and Applied Science Results for SEAS, 2000-level courses Agree (4) Std Dev Total Mean Strongly Neutral Disagree Strongly Agree (5) (3) Disagree (1) 3259 0.93 1271 1236 365 140 58 (39.00%)(37.93%)(11.20%)(4.30%)(1.78%)7. The instructor was knowledgeable Results for CS-2110-001, Tychonievich, Luther about the subject matter. Strongly Std Dev Disagree (2) Strongly Mean Neutral Total Agree (4) Disagree (1) Agree (5) (3) Question Type: Likert 84 4 71 0.45 24 n n 60 contributed by Dean of the School of Engineering (28.57%) (0.00%)(0.00%) (71.43%)(0.00%)and Applied Science Results for SEAS, 2000-level courses Disagree (2) Agree (4) Total Mean Std Dev Strongly Neutral Strongly Agree (5) Disagree (1) (3) 3255 4.54 0.75 2017 829 155 31 (0.95%)(25.47%)(61.97%)(4.76%)(1.54%)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-2110-001, Tychonievich, Luther									
Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)	
83	4.41	0.63	40 (48.19%)	37 (44.58%)	6 (7.23%)	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)	
	3254	4.39	0.81	1668 (51.26%)	1061 (32.61%)	237 (7.28%)	66 (2.03%)	33 (1.01%)	189 (5.81%)	

#### ~ 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-2110-001										
Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)		
83	3.93	1.11	24 (28.92%)	38 (45.78%)	4 (4.82%)	5 (6.02%)	5 (6.02%)	7 (8.43%)		

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)		
2897	3.95	0.97	787 (27.17%)	1095 (37.80%)	443 (15.29%)	141 (4.87%)	66 (2.28%)	365 (12.60%)		

#### 10. The grading policy was fair.

Question Type: Likert

contributed by Dean of the School of Engineering and Applied Science

Results for CS-2110-001, Tychonievich, Luther										
	Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)	
	84	4.12	0.75	26 (30.95%)	45 (53.57%)	10 (11.90%)	3 (3.57%)	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)		
3261	4.10	0.89	1122 (34.41%)	1352 (41.46%)	424 (13.00%)	123 (3.77%)	48 (1.47%)	192 (5.89%)		

### 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-2110-001, Tychonievich, Luther									
Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)	
84	4.40	0.79	45 (53.57%)	32 (38.10%)	4 (4.76%)	2 (2.38%)	1 (1.19%)	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)	
3255	4.29	0.85	1481 (45.50%)	1159 (35.61%)	284 (8.73%)	90 (2.76%)	40 (1.23%)	201 (6.18%)	

# 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	Results for CS-2110-001, Tychonievich, Luther								
Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)	
84	4.30	0.93	43 (51.19%)	30 (35.71%)	6 (7.14%)	3 (3.57%)	2 (2.38%)	0 (0.00%)	

Results for	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)	
3252	4.18	0.86	1264 (38.87%)	1263 (38.84%)	389 (11.96%)	109 (3.35%)	31 (0.95%)	196 (6.03%)	

# 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-2	110-001				
Total	Less than 1 (NA)	1 - 3 (NA)	4 - 6 (NA)	7 - 9 (NA)	10 or more (NA)
84	1 (1.19%)	26 (30.95%)	34 (40.48%)	15 (17.86%)	8 (9.52%)

Results for SEAS, 2000-level courses								
Total	Less than 1	1 - 3	4 - 6	7 - 9	10 or more			
	(NA)	(NA)	(NA)	(NA)	(NA)			
2907	163	898	1236	420	190			
	(5.61%)	(30.89%)	(42.52%)	(14.45%)	(6.54%)			

~ QUESTIONS AND DETAILS ~				~ ANSWER	MATRICES ~				
14. I learned a great deal in this course.	Results for	CS-2110-001							
Question Type: Likert	Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	
contributed by Office of the Provost	84	4.06	0.81	27 (32.14%)	38 (45.24%)	16 (19.05%)	3 (3.57%)	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)	
	2897	4.24	0.86	1291 (44.56%)	1171 (40.42%)	307 (10.60%)	87 (3.00%)	41 (1.42%)	
15. Overall, this was a worthwhile	Results for	CS-2110-001							
<b>course.</b> Question Type: Likert	Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	
contributed by Office of the Provost	84	4.11	0.91	33 (39.29%)	33 (39.29%)	12 (14.29%)	6 (7.14%)	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)	
	2899	4.19	0.94	1306 (45.05%)	1084 (37.39%)	324 (11.18%)	126 (4.35%)	59 (2.04%)	
16. The course's goals and requirements	Results for	CS-2110-001	, Tychonievic	h. Luther					
were defined and adhered to by the instructor.	Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	
Question Type: Likert  contributed by Office of the Provost	84	4.26	0.76	33 (39.29%)	44 (52.38%)	4 (4.76%)	2 (2.38%)	1 (1.19%)	
	Results for SEAS, 2000-level courses								
	Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	
	3241	4.24	0.85	1408 (43.44%)	1373 (42.36%)	350 (10.80%)	47 (1.45%)	63 (1.94%)	
17. The instructor was approachable	Results for	CS-2110-001	, Tychonievic	h. Luther					
and made himself/herself available to students outside the classroom.	Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	
Question Type: Likert  contributed by Office of the Provost	84	4.04	0.87	28 (33.33%)	35 (41.67%)	18 (21.43%)	2 (2.38%)	1 (1.19%)	
	Results for	SEAS, 2000-	level courses						
	Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	
	3247	4.20	0.92	1482 (45.64%)	1159 (35.69%)	456 (14.04%)	86 (2.65%)	64 (1.97%)	
18. Overall, the instructor was an	Results for	CS-2110-001	, Tychonievic	h Luther -					
effective teacher.  Question Type: Likert	Total	Mean	Std Dev	Strongly Agree	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree	
contributed by Office of the Provost	84	4.30	0.79	(5) 38 (45.24%)	36 (42.86%)	8 (9.52%)	1 (1.19%)	(1) 1 (1.19%)	
	Results for	SEAS 2000	level courses						
	Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	
	3260	4.16	0.99	1488 (45.64%)	1110 (34.05%)	437 (13.40%)	134 (4.11%)	91 (2.79%)	

		CS 2110-001 Software Developmen				
~ QUESTIONS AND DETAILS ~		~ ANSWER MATRICES ~				
19. Please make any overall comments	Results for CS-2	110-001				
or observations about this course:	Total	Individual Answers				
Question Type: Short Answer	36	See below for Individual Results				
contributed by Office of the Provost						
	Good					
	Prof. Tychonievich is very knowledgeable and is very helpful durin follow him during the class.					
	It was a progra	mming class.				
	I think more time should be spent teaching Android before students are expect the felt like we were just thrown into it.					

ful during office hour. But I really can't

students are expected to develop an app. It felt like we were just thrown into it

Good course.

Mr. T is pretty awesome.

Professor was great, the course was not

Professor Tychonievich is a great and engaging teacher. I really enjoyed this course and a big reason for why I enjoyed it was Professor Tychonievich's attitude and charisma. Also, the android programming part was really awesome!

Bro T is enthusiastic about the subject matter which makes a huge difference. Class is fun to attend.

luther is a great teacher, its unfortunate that he wont be teaching 2110 next semester.

I enjoyed the random music at the beginning of class

I hated the blatherer project because it made absolutely no sense and the project I did my groups entire code which was extremely frustrating. The blatherer project was not well explained. Also I would like the homework projects to stay with the course better. Also the fact that there were so many spelling mistakes in the homework assignments really pissed me off.

The only thing that I didn't like so much about this course were the exams and how much time was given to us during the exam. Also, the professor didn't let us use the restroom during the exam. It's not that I wanted to use the restroom, but the fact that we couldn't if we had to was a little disturbing to me. It was kind of like high school all over again.

I really enjoyed this course. It taught skills that I very much wanted to learn (Android development and Swing, for example), but probably would have been unable to teach myself. I felt prepared for the material most of the time, and this course made me look forward to (and feel prepared for) further CS courses

It should be important course for CS major since we have so many imporant topics covered....However, I don't really really enjoy this course except the android part........ Some topic like Container/GUI/ are really comprehensive. If we really want to implement them smoothly, probaly we'd better go through the complete system of them. (eg, AWT is prerequisite for learning Swing...) The course turns to be kind of disintegrated for me...... Our instructor is nice and he do does his

Instructor was helpful, amusing, and effective, but learning objectives and applications in homework assignments weren't always clear. I would prefer greater preparation in class and in homework assignments for material on tests. The main fault in his teaching methods was the lack of student reaction and participation, and you can't exactly blame Prof. Tychonievich for the high percentage of lackadaisical CS students. Note: I was told to take 1120 as a college student interested in CS, and the follow-up class was cut when I needed to take it, so I was sent to this class. It was made incredibly difficult by the fact that I didn't know any Java or much about object oriented programming as a whole, and Java knowledge was assumed. Try not to misdirect students in the future.

Android was the best part because it was the most useful skill we learned.

This class needs more structure. Every lecture just seemed like a lot of random information and it didn't flow within what was needed for the course. I was confused the majority of the time and almost every time I went to talk to the professor I felt like coming to get help was worthless because I either left more clueless than I was before or was told to go look at the textbook which I already had done. The Android project was way beyond my ability and, as a result, I was not able to contribute much to the technical coding no matter how much I tried to learn and understand it.

This was a good course, and Professor Tychonievich is a great professor. Some students might disagree because the homeworks required more thought than they were willing to give. I thought the homeworks were fair. So much enthusiasm!

Occasionally dismissive of student questions in class but overall very effective teacher who helped explain even challenging material in an approachable way. Entertaining and energetic in class.

N/A

#### ~ QUESTIONS AND DETAILS ~

#### ~ ANSWER MATRICES ~

Use power point slides, not the sketchpad

The only criticisms I have about the course were 1) we didn't cover enough examples of android programming to do the project. Most of the work we were able to do on it came from several group members having prior experience. However, I was really happy to get a chance to implement SCRUM. As an engineer, I learn about development methodologies all the time, but rarely do instructors give enough time on a project to actually implement them. 2) Homework 4 was confusing because of how the assignment was written, and because, unlike the MP3 player assignments, it was not intuitive.

I thought Prof. Tychonievich did a very good job with this course. He is extremely knowledgeable and is excellent at communicating this knowledge with students, an unfortunately rare quality in the E-School. His lectures are well structured and thorough, and really cover a lot of material. I think he slightly overestimated other people's excitement with computer science. There were a few times where I felt like I was watching Dora the Explorer, because Prof. T's questions to the class were met with silence. The homeworks seemed longer than I would have liked. Each one felt more like a project than a homework assignment. Also, WebCat isn't the greatest, but I guess it's the best you guys have. As for the actual semester project, I feel like I could have used more practice with Android than a few lectures and a lab before being loaded down with a huge project. I noticed that Prof. T is scheduled to teach Intro to CS next semester, and I think this is an excellent choice and that he is perfectly suited for this course.

The textbook was not helpful and the homework assignments were very poorly written.

Luther keeps his lectures interesting and interactive despite the fact the class might not be paying attention and or half asleep.

The drawings in class are fine for in class, but they are hard to follow when reviewing for assessments. It would be much more helpful to have actual PPoint slides.

Luther Tychonievich is the best.

I want to acknowledge the instructor's great knowledge for this course, indeed he knew what he is teaching. My few Concerns though, the instructor should've followed the textbook and lecture by its slides like the other section taught by a different professor did. For all quizzes and homework, I had to go back to notes from the other section for preparation and review. Also, I had to read notes from the other section for preparation of final exam; I wished Luther taught by these slides, it could've been a little easier for me. Also, I thought that the pace a fast especially for me and those who have little experience in programming. I found myself battling to do homework, and overall, I felt like I was learning at all. to this point, I finish the class, but I feel like I didn't learn programming.

Great course, although project was a lot more work than you'd expect for the portion of the grade it was. Only twice the worth of a single homework assignment but 10-20 times the effort. Interesting but should either be scaled back a bit (or a lot) or given more weight.

Needs more TAs during office hours

android sucks, wait until theres a good developement platform like iOS to teach it. had to "learn" (copy and paste) android on the fly and it wasn't very fufilling

Webwork is awful

This course was great, except the fact that it did not teach students how to code in Andorid ADT but asked to do self-teaching and finish the project, which was not a good choice.

I liked the intro to Java review that we did at the beginning of the course

This was a fantastic course, easily my favorite this semester. Professor Tychonievich did a great job teaching it.