CS 2110-003 **Software Development Methods** - Fall 2013

ENGR (20204)

INSTRUCTORS: **Tychonievich, Luther (lat7h)**

Respondents: 92 / Enrollment: 116

Summary: CS 2110-003 Software Development Methods - Fall 2013 (20204)

Overall Course Rating

CS-2110-003 Mean 3.91
CS-2110-003 Std Dev 0.99
CS-2110-003 Response Count 457

Difference from Category Mean, Expressed in Category Standard Deviations	-2 -1 0 1 2
	-0.19

SEAS, 2000-level courses Mean 4.09
SEAS, 2000-level courses Std Dev 0.96
SEAS, 2000-level courses Response Count 14500

Overall Instructor Rating

INSTRUCTOR: Tychonievich, Luther
Mean 4.38
Std Dev 0.75
Response Count 641

Difference from Category Mean, Expressed in Category Standard Deviations	-2 -1 0 1 2
	0.15

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. How accurate is this statement for you: After taking this class, I am more likely to major or minor in CS.

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Question Type: Likert
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contributed by Tychonievich, Luther (lat7h)

Results for CS-2110-003, Tychonievich, Luther

Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)
92	3.54	1.35	28 (30.43%)	26 (28.26%)	18 (19.57%)	8 (8.70%)	12 (13.04%)

Results for SEAS, 2000-level courses

Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)
152	3.32	1.43	40 (26.32%)	40 (26.32%)	26 (17.11%)	20 (13.16%)	26 (17.11%)

2. How accurate is this statement for you: After taking this class, I have a better appreciation for Computer Science.

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Question Type: Likert
~
contributed by Tychonievich, Luther (lat7h)

Results for CS-2110-003, Tychonievich, Luther

Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)
92	4.13	1.00	40 (43.48%)	33 (35.87%)	13 (14.13%)	3 (3.26%)	3 (3.26%)

Results for SEAS, 2000-level courses

Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)
151	4.05	1.04	60 (39.74%)	58 (38.41%)	20 (13.25%)	7 (4.64%)	6 (3.97%)

3. Which topic/lecture in this course was your favorite and why?

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Question Type: Short Answer
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contributed by Tychonievich, Luther (lat7h)

Results for CS-2110-003, Tychonievich, Luther

Total	Individual Answers
84	*See below for Individual Results*

Algorithms because we did many class demonstrations.

The Android project was my favorite because it was a real world application that I could relate to.

Sets/maps Learning about it was fun

Android, immediate and obvious real world relavence

My favorite topics are binary trees and data structures because they form the basis for a lot of computer science (how data is stored, etc). Furthermore, this information will be explored more in 2150 and in the future, so I think that this information will be helpful to know about. I also thought that inheritance is quite powerful, and I like how it faciliates a lot of code reuse.

Algorithm analysis because I think it will be the most useful in terms of manipulation of large data sets

I like recursion because the logic is interesting

everything

~ QUESTIONS AND DETAILS ~	~ ANSWER MATRICES ~
	Android because it showed how to use the information talked about in the course in a real-world situation. Maps and Sets because of their analogues to Abstract Algebra made them easy for me (a math major in the college) to understand Software development models and methods, as that was the only topic I had not seen prior to this course. The android section was probably the most interesting because it was the most immediately applicable Android, because it was our first time doing "real world" programming that involved an external device running the application android; it taught me how to go out and learn things on my own Android. Learning something we can use practically for much of our programming life? We need more opportunities like this. none. I'm not a huge fan of CS but I realize it's use Runtime/learning ways to speed up program runtime because this interests me Anything talking about stack frames and pointers I really enjoyed learning about Android programming, because it's a very practical way to demonstrate just how much we've learned in two short semesters. Overall felt like the class was good. No real favorite. No particular preference Recursion. I like the topic. recursion I enjoyed learning about Android because of its practical value (I can actually program apps and make money now!) Android because it helped me learn things on my own while teaching me a skill that I actually think I might use later on. Although the android topics were difficult, it was new to me and I hope to be able to use it in the future the lectures about software engineering and OOD, because they were more applicable to real world applications of cs I enjoyed swing because we were building tangible windows that we could use. Maps because I thoroughly understood it. I liked recursion. Android. It was cool and new. i love the algorithm and tree part the most, really fun to study I really enjoyed the interface stuff Swing I'm interested in UI. Everything! Because Luther is awesome. Actually it was android because I have never coded android File reading Sets and Maps. They were fascinating. Sets: I felt like i learned the most during this Learning how methods are actually called by a computer -- we hadn't covered it in CS 1110 and I'd wondered how it worked. The part where learned android. Why? Because that's why I took this class.

~ QUESTIONS AND DETAILS ~	~ ANSWER MATRICES ~
	Wouldn't say there was a clear favorite, all topics were interesting. OO Design I guess, because of the process of thinking and then solving a problem
	The topic on software design was my favorite because it was applicable to the real-world and gave me insight into my past experience at my previous internship.
	Android, it had the most creativity and application.
	android
	Android Dev - fun to actually work on the big project.
	Android because I could actually apply it to my life. I have an Android phone.
	Unit testing and pair programming really gave insight into the reality of programming - a greater real-world picture of programming especially since much more coding and working with other people are often done in computer science fields in reality.
	Android, because it was fun to get out and do some self guided learning
	Android lectures
	data structures
	Android, most practical but wish we were instructed to greater detail
	Interfaces, because they seem very intuitive and were something I was hoping was possible in java.
	I really enjoyed algorithms.
	I liked the things we did with graphics near the end of the class.
	Inheritance. It gave me a deeper understanding of how many programs work.
	Android programming
	Swing and Android
	Recursion because it teaches logical thinking
	Inheritance and abstract classes, interesting and useful for programs using many similar objects
	Learning how Android works. I have been trying to do write apps for ages, but I have generally lacked the drive and resources necessary to learn how the system works.
	I loved when we talked about the Java Collections framework. Android was good, but we should have had more.
	Android project
	I enjoyed learning more about debugging because it made my homework and labs much more efficient.
	Interfaces, superclasses, etc: they allowed reusing of code in a predictable way (building things)
	none of the lectures stood out
	Algorithms. Professor T. got to put his personality into the lectures which made it more fun - also it is a more inherently interesting topic.
	Android because it was easy to see the various applications of the information and how it could be used in the future.
	Algorithm Analysis - It seemed to be actual computer science.
	TreeMaps, Coding Experience
	Android Development
	I enjoyed talking about the different development processes of coding like scrum.
	Android
	Android
	Android
	Android

~ QUESTIONS AND DETAILS ~	~ ANSWER MATRICES ~
	Android Android Android, most applicable Trees, as i felt very comfortable in coding for the concepts being taught, and it was interesting material to begin with Android - very useful and interesting. Fun to work with as well. The different software development processes lesson was my favorite because it factored in the bigger picture and management techniques. Inheritance and superclasses because they can simply coding. I thoroughly enjoyed the Android App development process because it gave me a opportunity to apply my learning to a group project with a set software development method towards production of an app product. This has been my most hands-on activity with regards to programming so far and has proven to me that I truly do enjoy computer science and want to major in it.
4. Which topic/lecture in this class do you think you will find the most useful in the future? ~ Question Type: Short Answer ~ *contributed by Tychonievich, Luther (lat7h)*	Results for CS-2110-003, Tychonievich, Luther Total: 83 — Individual Answers: *See below for Individual Results*
	OO Design Inheritance and Recursion Unsure The topic that was most useful was the Android content because I will most likely be required to design and program applications in the future. The android project was the most useful, however, I wish there was a longer period of time designated to this topic as it could be improved significantly. Algorithms Sets, Lists, Maps, Data Structures. The android project Android and Inheritance Android development and software engineering. Search algorithms android project Topics regarding algorithms and data structures Android, because its pretty awesome to be able to write an app. Unfortunately, none were particularly useful. I know you want me to say that silly Android exercise was useful, but I hated it. Android because it introduced me to a new way of coding. recursion andoird; the IT field with the highest expected income growth in the next 5 years is mobile app development. The topic which I liked the least will probably be the most useful: The software development methods. Not to say that this section was too hard or too boring, but it just wasn't super exciting. However, after beginning a startup with some friends of mine, I've noticed myself using/talking about those methods, so I guess it was useful. Android Programming

~ QUESTIONS AND DETAILS ~	~ ANSWER MATRICES ~
	Maps and Sets
	Le all of it.
	Software Development methodologies
	I think I will find the understanding of abstraction to be the most useful in the near future.
	basic coding knowledge (I am switching majors)
	Everything on Android was useful because it is essentially a different computing language, so being forced to learn it was very useful.
	Android programming.
	The whole inheritance section will probably come in pretty handy
	I will not be continuing with computer science but I liked the real world experience of actually making an app.
	The final project
	The software development processes and the complexities lesson
	All the vocab stuff related to software development beyond coding.
	android
	android
	android
	Android app programming because so many people use apps for a variety of reasons and it was interesting as well as useful/helpful to be able to work with a project based upon Android.
	Software Development, Luther is a great explainer
	Android, easily. I would have preferred we spent much more time on this and less on other less applicable objectives (models and methodology, algorithm analysis, maps and sets, etc.)
	Data Structures
	Collections framework
	Android development because I can make my own apps now in the future.
	probably the same as listed above, software engineering and OOD, because I do not think I will pursue a career that involves as much actual coding, but maybe more system design
	Probably testing, though I will use what we did with android a lot more.
	The Android project was very helpful, not just in the sense of becoming skilled with the Android API, but also in knowing how to apply a software development model to a team setting.
	Algorithm analysis
	Android.
	Android.
	Probably the topics on how software development actually works
	Android programming
	Interfaces It seemed the most useful.
	Android, and Swing
	Android programming.
	Android project
	probably data structures
	Scrum style programming
	Sets/Maps

~ QUESTIONS AND DETAILS ~	~ ANSWER MATRICES ~
	the OO design, it's a way of thinking through problems, even problems not related to CS. Probably algorithms or inheritance interfaces because they seem easily applicable I think that data structures and inheritance will probably be quite useful, as they form a basis for writing more efficient and more easily maintainable code. maybe algorithm and the part we're using to do project Android and software development process heap and stack, trees Android Android Android Android Android Android Android Android Android Android Android Testing code. Probably recursion because of the logical thinking it fosters Software models and methods including the associated techniques. Operating systems come and go, but good programming is good programming. ANdroid Android. See previous. I honestly wouldn't know at this point Scrum because it is widely used
5. What lecture/topic(s) in this class "did not work" or were not seen as useful in the long run? ~ Question Type: Short Answer ~ *contributed by Tychonievich, Luther (lat7h)*	Results for CS-2110-003, Tychonievich, Luther Total: 73 — Individual Answers: *See below for Individual Results*
	jUnit testing. Development models Everything taught was pretty useful. Maybe the least useful was GUI but that's still important The Object Oriented Design did not seem useful because I do not want to do anything with computer science. we did not spend enough time on java for the size of the project we were assigned. I thought that all of the topics were useful and worked well in this class. I would not remove any of them.

~ QUESTIONS AND DETAILS ~	~ ANSWER MATRICES ~
	Maps Android was a bit of a stretch for this class to include the way it did; either start teaching bits and pieces from the beginning, or remove it altogether. Coverage of Swing felt a bit gratuitous having just done Android, and we were running out of time at that point so we did not get to practice it. Abstract Classes none none none I do not believe I will ever code in Android again. Quizzes Code Development process When it got to the point in the course where we were discussing what would apply to future courses I questioned why Systems Engineers had to take this class, it felt like a class for people who were majoring or minoring in computer science. Swing Swing Swing Maybe the Swing stuff Android App. Android App. Android App. Why? WHY? WHY? I don't want my second computer science course at UVa to be a silly exercise with Google Maps and chasing ghosts. The first two weeks, when Luther jumped into the Java Review, explaining the stacks and heaps and object whatnot, had some of the best lesson of the course. The algorithm analysis, the review of different types of lists, and the polymorphic lessons were wonderful, and throwing that stupid Android project in the end leaves me with a disgusting taste in my mouth. Everything taught in this class is probably useful in the long run. they all worked, but as a non-CS major, I don't know if any will be of particular use HW4 was confusing and it did not greatly enhance my understanding of sets/maps. Maps and Sets Pair programming. N/A XML/Throwing us into android programming with arguably unreasonable expectations The review in the beginning of the class was too slow. android The "learning" done in labs. Labs were a good buffer grade but I didn't actually learn much. Nodes Android because it came out of nowhere All lectures were carried out well android Android took too much time, it was interesting and valuable but a major time commitment Swing, felt forced Can't think of anything in particular Could probably condense the information on Sets/Maps.

~ QUESTIONS AND DETAILS ~	~ ANSWER MATRICES ~
	Iterator/ Blatherer was kind of useless. Swing because we did not use it. ANDROID Some of the broader ideas about software development Android. Most dialogue about computer theory, like heaps v. stacks and other in depth stuff, "did not work." None None There should have been more lecture about Android. Blatherer was kind of weird. As was the playlist Android was not really all that well covered. It is useful, but I still find myself confused about it. Android Android was really confusing Cons to Android project - should have introduced more topics on Android development if going to pursue this project again in the future and allowed more time (maybe start it earlier) More time should have been spend on Android since, while it uses Java, it is essentially it's own language. I have no problems with this, but the java.swing lesson didn't see much use. I don't think most students would remember it very well if tested after the course. Recursion (though it is interesting) and the really in depth collections api stuff Swing. There were too many swing lectures in my opinion. I'm sure the complexity topic will be useful later, but for now I found it unnecessary. Algorithm Analysis was dreadfully boring to me. Nothing didn't work. There were things I already knew from my AP computer science class last year but there were others in the class who did not know those topics already so I can't say that those topics did not work. n/a n/a Labs need to be better organized and explained Although I know that it is important to understand software development methodologies (like Scrum and etc), I think that we could have had less emphasis on this topic (especially during the Android project), since when we start working, we will most likely adopt the methodology of the workplace, and previous knowledge about other methodologies would probably just serve as interesting auxiliary information. Android hw3 media player accessories HW 1-3 on Media Player nothing nothing The project Video/Media Player. It was weird having to keep on swapping partners for new codes.

~ QUESTIONS AND DETAILS ~	~ ANSWER MATRICES ~

6. The initial java review was

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Question Type: Multiple Choice

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contributed by Tychonievich, Luther (lat7h)

Results for CS-2110-003, Tychonievich, Luther

Total	unnecessary (NA)	useful, but too slow (NA)	just right (NA)	useful, but too fast (NA)	insufficient (NA)
92	5 (5.43%)	19 (20.65%)	55 (59.78%)	12 (13.04%)	1 (1.09%)

Results for SEAS, 2000-level courses

Total	unnecessary (NA)	useful, but too slow (NA)	just right (NA)	useful, but too fast (NA)	insufficient (NA)
152	7 (4.61%)	28 (18.42%)	86 (56.58%)	24 (15.79%)	7 (4.61%)

7. How accurate is this statement for you: I am glad android was included in the course materials.

~

Question Type: Likert

~

contributed by Tychonievich, Luther (lat7h)

Results for CS-2110-003, Tychonievich, Luther

Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)
91	3.95	1.22	38 (41.76%)	30 (32.97%)	10 (10.99%)	6 (6.59%)	7 (7.69%)

Results for SEAS, 2000-level courses

Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)
151	3.79	1.33	60 (39.74%)	45 (29.80%)	15 (9.93%)	16 (10.60%)	15 (9.93%)

8. How would you rate the helpfulness of the TAs?

~

Question Type: Likert

~

contributed by Tychonievich, Luther (lat7h)

Results for CS-2110-003, Tychonievich, Luther

Total	Mean	Std Dev	Excellent (4)	Good (3)	Average (2)	Weak (1)	Very Poor (0)
92	2.55	1.00	16 (17.39%)	37 (40.22%)	21 (22.83%)	18 (19.57%)	0 (0.00%)

Results for SEAS, 2000-level courses

Total	Mean	Std Dev	Excellent (4)	Good (3)	Average (2)	Weak (1)	Very Poor (0)
152	2.66	1.01	30 (19.74%)	68 (44.74%)	30 (19.74%)	21 (13.82%)	3 (1.97%)

9. How often did you make use of the TA office hours?

~

Question Type: Multiple Choice

~

contributed by Tychonievich, Luther (lat7h)

Results for CS-2110-003, Tychonievich, Luther

Total	Every week (NA)	Every other week (NA)	Once per assignment (NA)	Rarely (NA)	Never (NA)
92	8 (8.70%)	14 (15.22%)	15 (16.30%)	29 (31.52%)	26 (28.26%)

Results for SEAS, 2000-level courses

Total	Every week (NA)	Every other week (NA)	Once per assignment (NA)	Rarely (NA)	Never (NA)
152	20 (13.16%)	27 (17.76%)	31 (20.39%)	37 (24.34%)	37 (24.34%)

10. Any specific comments about the TAs you would like to share?

~

Question Type: Short Answer

~

contributed by Tychonievich, Luther (lat7h)

Results for CS-2110-003, Tychonievich, Luther

Total	Individual Answers
52	*See below for Individual Results*

Learn more on android

Awesome TAs this semester!

During the Android project, many of the TA's did not have enough knowledge and this made dealing with the problem solving on a somewhat foreign platform very frustrating.

They were amazing.

Need more TAs.

~ QUESTIONS AND DETAILS ~	~ ANSWER MATRICES ~
	One told me that my code was wrong, I should debug it, and left.
	David was great.
	For the most part, they were pretty helpful, but during lab it always seemed like there was either a lack of communication between professors and TAs about what would be happening in lab or there was a lack of preparation by TAs.
	They were good and made a good effort to help you learn and not just tell you the answer.
	The TAs were not very helpful in lab.
	none
	They were very helpful.
	hardly any of the TAs knew anything about Android and weren't much help for the project
	Some TA's are not qualified in helping homework
	Most of them didn't really help.
	N/A
	N/A
	I know the TA's were trying to help everyone during office hours but sometimes they spent too much time on one person multiple times and it was a waste of time for me to even attend
	Some not very helpful. Sometimes were more clueless than I was.
	Most weren't very helpful
	The TAs were quite patient, especially with Android and Blatherer. The TAs were willing to help my group debug our code (if there were not a lot of other groups in the queue), which was really helpful, since our code had become quite involved and (occasionally) harder to trace and understand.
	Will seemed cool. I didn't really have much need for ta help though.
	nope.
	sometimes unprepared and the queue can really be the bane of any students' existence on certain days and sometimes there was only one TA for many students who needed help on an assignment and not all students were able to be helped
	They were good
	Rachel and Jenna were very friendly and helpful.
	The TAs were great but often, they couldn't help me. Also one time, I was the first person in the queue 10 minutes before a TA's OH ended and a few people walked up and asked for help and so he didn't get to me before he left when his OH ended which was a bit frustrating since I had been waiting for more than two hours. Overall though, the TAs are great and could answer a lot of conceptual questions and a few coding ones. They seem to rely on the answer key for the coding problems more than they relied on their own knowledge.
	They were really nice and helpful in lab
	For the Android project, most TAs didn't seem to have any more experience than we did with things like Google Maps. I don't necessarily think it's the TAs fault and I know Google Maps wasn't required, but I think it'd make future projects easier if all of their potential challenges could be aided by TAs
	Undergrad TA's were approachable and engaged, but didn't have the knowledge necessary to solve problems, especially with HW. The graduate TA was more helpful
	None
	In the android lab, the TA's would come by when you asked for help, and almost every time their response was: "Oh, I didn't do that in my course, sorry" Isn't the purpose of the TA's to actually have some Pre-Knowledge of the course material? Seriously, it was rather frustrating to get almost no help in terms of actual programming. I got lucky in that I had an excellent group which met regularly and worked out the understanding, but It was much harder.
	Justin was very approachable and helpful.
	TAs were very helpful. I would recommend however that more office hours are held closer to assignment submissions since it became difficult to meet with TAs during this time due to the increase in number of students requiring help.
	Axel was the best TA for CS2110 by far

~ QUESTIONS AND DETAILS ~	~ ANSWER MATRICES ~

None.

Nothing major.

There were few TAs that were actually very helpful. Many were ineffective and unable to provide much aid.

Nope!

They appeared to not be knowledgeable about Android, which was the project that made us require the most help.

They should know android if we have to

One of them was good. Fluency in the language the class is taught on should be a requirement for the TAs. Only one of four knew android. You would never hire a Spanish TA that didn't understand Spanish.

What's up?

n/a

some of them were very knowledgeable, but some couldn't provide as much help as others

TAs were not as helpful as in CS 1110

they dont know what theyre doing

GOOD

Nearly impossible to get help at Office Hours. I stopped going, because I would wait for hours and never get help. (I was once there for five hours and never got to see a TA). One time when I did get to see a TA in office hours they said they didn't know how to help me. They also often couldn't help me when I had trouble in lab. However, they were very nice and friendly.

Not really

In regards to android, I felt that most of the TAs knew about as much as I did.

TAs were good.

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

~

Question Type: Likert

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contributed by Dean of the School of Engineering and Applied Science

Results for CS-2110-003

Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)
91	4.18	0.74	31 (34.07%)	48 (52.75%)	9 (9.89%)	3 (3.30%)	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%)

12. 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

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contributed by Dean of the School of Engineering and Applied Science

Results for CS-2110-003, Tychonievich, Luther

Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)
92	4.26	0.84	41 (44.57%)	39 (42.39%)	8 (8.70%)	3 (3.26%)	1 (1.09%)	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)
3264	4.06	1.04	1244 (38.11%)	1161 (35.57%)	357 (10.94%)	196 (6.00%)	104 (3.19%)	202 (6.19%)

~ QUESTIONS AND DETAILS ~	~ ANSWER MATRICES ~

13. There was a reasonable level of effort expected for the credit hours received.

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Question Type: Likert

~

contributed by Dean of the School of Engineering and Applied Science

Results for CS-2110-003

Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)
91	4.04	1.01	32 (35.16%)	44 (48.35%)	5 (5.49%)	7 (7.69%)	3 (3.30%)	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%)

14. 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-2110-003

Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)
91	4.24	0.66	32 (35.16%)	50 (54.95%)	8 (8.79%)	1 (1.10%)	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)
2900	4.24	0.86	1237 (42.66%)	1170 (40.34%)	269 (9.28%)	92 (3.17%)	40 (1.38%)	92 (3.17%)

15. 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-2110-003

Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)
92	3.08	1.12	7 (7.61%)	29 (31.52%)	29 (31.52%)	16 (17.39%)	10 (10.87%)	1 (1.09%)

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	3.54	1.14	551 (19.02%)	833 (28.75%)	626 (21.61%)	308 (10.63%)	149 (5.14%)	430 (14.84%)

16. 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-2110-003, Tychonievich, Luther

Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)
92	4.14	0.81	34 (36.96%)	40 (43.48%)	15 (16.30%)	3 (3.26%)	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)
3259	4.15	0.93	1271 (39.00%)	1236 (37.93%)	365 (11.20%)	140 (4.30%)	58 (1.78%)	189 (5.80%)

17. 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-2110-003, Tychonievich, Luther

Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)
92	4.76	0.45	71 (77.17%)	20 (21.74%)	1 (1.09%)	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)
3255	4.54	0.75	2017 (61.97%)	829 (25.47%)	155 (4.76%)	50 (1.54%)	31 (0.95%)	173 (5.31%)

~ QUESTIONS AND DETAILS ~	~ ANSWER MATRICES ~

18. The instructor was well prepared for class.

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Question Type: Likert

~

contributed by Dean of the School of Engineering and Applied Science

Results for CS-2110-003, Tychonievich, Luther

Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)
92	4.58	0.56	56 (60.87%)	33 (35.87%)	3 (3.26%)	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%)

19. 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-2110-003

Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)
92	4.00	0.90	23 (25.00%)	51 (55.43%)	8 (8.70%)	3 (3.26%)	3 (3.26%)	4 (4.35%)

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%)

20. 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-2110-003, Tychonievich, Luther

Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)
91	4.12	0.77	28 (30.77%)	50 (54.95%)	10 (10.99%)	2 (2.20%)	1 (1.10%)	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%)

21. The instructor responded adequately to in-class questions.

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Question Type: Likert

~

contributed by Dean of the School of Engineering and Applied Science

Results for CS-2110-003, Tychonievich, Luther

Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)
91	4.27	0.93	47 (51.65%)	29 (31.87%)	9 (9.89%)	5 (5.49%)	1 (1.10%)	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%)

22. 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-2110-003, Tychonievich, Luther

Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)
91	4.51	0.58	50 (54.95%)	37 (40.66%)	4 (4.40%)	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)
3252	4.18	0.86	1264 (38.87%)	1263 (38.84%)	389 (11.96%)	109 (3.35%)	31 (0.95%)	196 (6.03%)

~ QUESTIONS AND DETAILS ~	~ ANSWER MATRICES ~

23. 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-2110-003

Total	Less than 1 (NA)	1 - 3 (NA)	4 - 6 (NA)	7 - 9 (NA)	10 or more (NA)
92	3 (3.26%)	19 (20.65%)	56 (60.87%)	11 (11.96%)	3 (3.26%)

Results for SEAS, 2000-level courses

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

24. I learned a great deal in this course.

~

Question Type: Likert

~

contributed by Office of the Provost

Results for CS-2110-003

Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)
91	4.09	0.94	33 (36.26%)	42 (46.15%)	9 (9.89%)	5 (5.49%)	2 (2.20%)

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%)

25. Overall, this was a worthwhile course.

~

Question Type: Likert

~

contributed by Office of the Provost

Results for CS-2110-003

Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)
92	4.07	0.97	35 (38.04%)	37 (40.22%)	13 (14.13%)	5 (5.43%)	2 (2.17%)

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%)

26. 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-2110-003, Tychonievich, Luther

Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)
91	4.33	0.63	37 (40.66%)	48 (52.75%)	5 (5.49%)	1 (1.10%)	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)
3241	4.24	0.85	1408 (43.44%)	1373 (42.36%)	350 (10.80%)	47 (1.45%)	63 (1.94%)

27. 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-2110-003, Tychonievich, Luther

Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)
92	4.04	0.91	29 (31.52%)	47 (51.09%)	9 (9.78%)	5 (5.43%)	2 (2.17%)

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%)

~ QUESTIONS AND DETAILS ~	~ ANSWER MATRICES ~

28. Overall, the instructor was an effective teacher.

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Question Type: Likert

~

contributed by Office of the Provost

Results for CS-2110-003, Tychonievich, Luther

Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)
92	4.32	0.74	43 (46.74%)	36 (39.13%)	12 (13.04%)	1 (1.09%)	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)
3260	4.16	0.99	1488 (45.64%)	1110 (34.05%)	437 (13.40%)	134 (4.11%)	91 (2.79%)

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

~

Question Type: Short Answer

~

contributed by Office of the Provost

Results for CS-2110-003

Total	Individual Answers
45	*See below for Individual Results*

Systems Engineers should not have to take this course

Very interesting course!

I loved this class. It was stressful at times but the success of making a good program always overcame that.

Great class. I want to take another class from Bro T someday.

Glad CS is over. The exposure to the material will probably help me at some point in the near future

I felt very unprepared for the Android project although it was fun to do. I'm not sure if the purpose was for us to teach ourselves by Google-ing tutorials on android development sites but it was very stressful not knowing how to do anything with an approaching deadline. I also feel that the material could be taught a little more slowly/in depth because there are quite a few confusing concepts like Collections for example.

I don't think the regrade policy is very fair. I think it should be amended so that instead of losing 2 points automatically just for submitting a regrade, you lose two points if your regrade was judged to me trivial. As far as android was concerned I feel as though we were thrown to the wolves as it were. While this was the intended effect, I a little more guidance would have been appreciated.

Class needs to be better organized

nah

knows his stuff very well, but occasionally can come off as condescending if a question is asked or topic is brought up that he may find easy but a student may find difficult or may have never learned before

This class should involve more coding, should be made more engineering.

Great course, great teacher. Luther is the man and should be coveted here.

I thought it was unfair to have a 2 points deduction for submitting regrades.

Prof Tychonievich was a great professor. I honestly did not think a professor could even come close to measuring up to my high school CS professor who made me love CS, but Tychonievich is very very close to that bar. I frequented his office hours and he was always willing to help which I greatly appreciated. He didn't belittle me even though the problems I had probably were very silly to him. I am a CS major and I have loved CS for a while but Tychonievich made me love CS even more than I had prior. I did hate android with a passion but I loved the course overall. I always joke with my friends that I can only get A's in my CS courses and it's true, and even more so because I have professors like Tychonievich. I don't think I would have loved this class as much I did if I didn't have Tychonievich.

if (courseTaughtByTychonievich){ iWillTakeIt = true; }

I loved Professor Tychonievich in-class, but he made me re-schedule a Thanksgiving plane flight which was scheduled before the class, and it cost about $837 which was ridiculous. I was supposed to fly out before a project presentation, and he wouldn't allow us to present earlier. (We ended up presenting earlier anyways.)

Overall it was a fair course I was just surprised by the final because, though they warned us it would be focused on the material from the last part of the course I did not expect there to be that little subject matter on the final. It didn't feel all encompassing it felt like it was helping students who didn't study the old material.

~ QUESTIONS AND DETAILS ~	~ ANSWER MATRICES ~
	WebCat was very frustrating
	HW4 was very confusing.
	Please make sure the TA's are pre-prepped in the android required for the current year's project. They really are our lifeline.
	Although I liked Professor Tychonievich, I really benefited from Professor Basit's ppt slides when reviewing concepts, and I didn't realize we could access them until halfway through the semester.
	Luther is an awesome instructor!
	Professor Tychonievich is very knowledgable about the subjects that he addressed, and I really appreciated how he was able to find alternate methods to explain the material if I was unable to understand the first method of explanation, especially during the binary trees and algorithms lectures. I also like how class is opened with questions, and the fact that if Professor Tynchonievich is in his office and is available, he is willing to explain material outside of the allotted office hours times.
	The course was very informative.
	Tychonievich has lots of enthusiasm. He probably convinced a lot of kids to major or consider CS as a possible major. Probably not good for the oversaturated CS department (needs more money, UVA), but good for his students.
	Tychonievich occasionally used keyboard shortcuts and generally quick typing to make following along in class difficult at times. Overall, he was helpful and understanding.
	I thought it was great.
	The Android project too large quantities of time, even after the initial confusion settled
	The policy of deducting points for unsuccessful grade appeals is ridiculous and really just makes the department seem lazy. Students should not have to hesitate to seek clarification for test answers. If you really feel that you canât handle grade appeals, at the very least make the policy that you only lose points for submissions judged excessive or frivolous. Maybe that was always the intention, but students should not be discouraged from submitting legitimate grade appeals in the first place. Especially when we were told that the TAâs had to rush through test grading.
	Professor Tychonievich was very insightful but I think his grand intellectual abilities often went over my head. I think that he was an amazing professor nonetheless, I just wish I was as astute as he was in understanding the computer science material.
	--Luther Tychonievich: absolutely cool, awesome and adorable lol
	Should be able to test out of it. TJ APCS encompasses everything that is taught in CS2110 excluding Android
	More about android could have been taught in the class. Students were taught almost nothing in class about android and then given a project requiring knowledge of the untaught language. If the idea is to make us learn trial by fire without any support (TA lecture or textbook) why do we need to pay for this class. The TAs did not have fluency in the language, the teacher did not teach the topic.
	N/A
	I love Professor Tychonievich's style. He is engaging, knowledgeable, and a joy to learn from.
	Luther is a great teacher. I would love to see him with even more latitude and autonomy. He has a great handle on where his students are and addresses them appropriately. Excellent professor!
	I loved the professor but I don't feel like spending that much time on an Android project which I feel like I will never utilize in the future was effective.
	Tychonievich -- keep up the poetry writing! It's fun to have quick little odd questions / poems / songs at the beginning of class and helps keep us awake/interested
	Instructions on homeworks could be more clear.
	One of the most connected professors I've ever had. Tychonievich makes a large class feel smaller and participation easier.
	Great course, although I struggled with the work load and decided to switch majors I enjoyed the lectures.
	The course wasmore useful than I expected it to be
	Professor T. is probably one of the most knowledgeable teachers I've ever encountered. In my opinion, he should teach not only computer graphics but also many other higher-level courses as well. Extremely pleased with how he handled class. Even though he was a difficult teacher, I felt like I was learning a ton from the lectures.
	I thoroughly enjoyed this course, and am looking forward to using what I learned here throughout my academic and professional career.

~ QUESTIONS AND DETAILS ~	~ ANSWER MATRICES ~
	It should be worth more credits.