CS 1110-001 **Introduction to Programming** - Spring 2014

ENGR (17332)

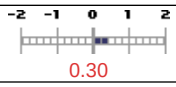
INSTRUCTORS: **Tychonievich, Luther (lat7h)**

Respondents: 101 / Enrollment: 180

Summary: CS 1110-001 Introduction to Programming - Spring 2014 (17332)

Overall Course Rating

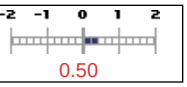
CS-1110-001 Mean 4.12
CS-1110-001 Std Dev 0.91
CS-1110-001 Response Count 501

Difference from Category Mean, Expressed in Category Standard Deviations	
	0.30

SEAS, 1000-level courses Mean 3.79
SEAS, 1000-level courses Std Dev 1.12
SEAS, 1000-level courses Response Count 6388

Overall Instructor Rating

INSTRUCTOR: Tychonievich, Luther
Mean 4.44
Std Dev 0.72
Response Count 700

Difference from Category Mean, Expressed in Category Standard Deviations	
	0.50

SEAS, 1000-level courses Mean 3.89
SEAS, 1000-level courses Std Dev 1.10
SEAS, 1000-level courses Response Count 12130

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

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

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

Results for CS-1110-001, Tychonievich, Luther

Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)
101	4.52	0.73	63 (62.38%)	31 (30.69%)	5 (4.95%)	1 (0.99%)	1 (0.99%)

Results for SEAS, 1000-level courses

Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)
290	4.34	0.84	147 (50.69%)	114 (39.31%)	15 (5.17%)	10 (3.45%)	4 (1.38%)

2. How accurate is this statement for you: After taking this class, I personally have a better understanding of fundamental concepts in Computer Science.

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

Results for CS-1110-001, Tychonievich, Luther

Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)
100	4.58	0.64	63 (63.00%)	34 (34.00%)	2 (2.00%)	0 (0.00%)	1 (1.00%)

Results for SEAS, 1000-level courses

Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)
288	4.41	0.72	148 (51.39%)	118 (40.97%)	16 (5.56%)	4 (1.39%)	2 (0.69%)

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

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

Results for CS-1110-001, Tychonievich, Luther

Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)
101	3.43	1.40	31 (30.69%)	21 (20.79%)	23 (22.77%)	12 (11.88%)	14 (13.86%)

Results for SEAS, 1000-level courses

Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)
290	3.17	1.41	70 (24.14%)	58 (20.00%)	63 (21.72%)	50 (17.24%)	49 (16.90%)

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

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

Results for CS-1110-001, Tychonievich, Luther

Total	Individual Answers
87	*See below for Individual Results*

I think my favorite topics were about the practicality of computer science and how it would apply in real life

~ QUESTIONS AND DETAILS ~	~ ANSWER MATRICES ~
	I really liked recursion because it is really cool how you can loop without using an actual loop
	writing classes-they're actually applicable
	All of them! I loved the course! But if I had to pick one, the Encryption scavenger hunt was a lot of fun! I loved the adventure of running around Grounds and writing code to figure out the secret messages!
	everything
	This is like asking a parent to pick their favorite kid. All of the material was taught amazingly. Props to Luther.
	Turtles! Drawing pictures was a nice way to see a concrete thing that computers could do.
	Methods, I loved learning to simplify programs
	I enjoyed for-loops, since I could see the practical value in looping things.
	Recursion I like, it is like a puzzle.
	Recursion, especially when contrasted with loops, showed me there is typically more than one way to solve a problem.
	I really liked the lecture on for loops, it helped me a lot and it felt cool when I understood.
	The physical coding skills, because I enjoyed learning a new language.
	Recursion because it is a fun challenge to try to come up with a method that works for it.
	The joust game and learning how to relate classes. It was fun being able to interrelate everything learned thus far throughout the year and to create something purely of your own.
	All aspects were interesting and sparked my interest in the topic
	Learning to Code - because coding is important
	My favorite part is the homework 6, making my own game in java. The game puts everything we learn into practice
	Coding
	I really liked the encryption scavenger hunt! It really helped me better understand the topic and it was also a nice change from the traditional lecture.
	I enjoyed Birds. It was very comprehensive and it was fun to kind of put together everything we'd covered.
	I enjoyed making the bird game because it was satisfying to see it work.
	I enjoyed doing the things with the CSV reader because It felt like I was doing something that someone could actually use.
	Classes because it gave you more leeway to create different codes.
	Turtles
	Recursion and the drawing of the lines because it is very cool
	loops because you had to think about it
	The first few lectures were fun and an interesting way to be introduced to CS.
	Programming the Bird Joust game at the end was my favorite because I got to see how all the concepts I learned over the year were connected and related. Also because it was pretty cool.
	I enjoyed writing methods/classes because it tied together everything we had been learning and really helped with my understanding of the material. I also enjoyed topics that enjoyed thinking mathematically like search programs and recursion.
	turtle interesting
	The recursion activity where we had to stand up and wait for an answer for someone else really cemented the idea of recursion.
	loops; because they are easier than recursion
	I enjoyed recursion even though it was quite tricky to understand.

~ QUESTIONS AND DETAILS ~	~ ANSWER MATRICES ~
	The cryptology one was really interesting.
	I liked when we finally got to writing classes, because it brought together everything we had learned before.
	The lecture about recursion
	Free coding. I want to be like Bro T.
	I found method writing to be my favorite because it really helped me understand where the other methods we used came from.
	My favorite was the CSV Reader homework assignment because it applied a wide range of the topics we have covered in a challenging way. A lot of it was like a puzzle, and it was really fun to solve it. Also, I liked getting to work with the back end of the Lou's List website - it was a different perspective on the tool.
	encryption, the hunt using codes made the topic much more interesting
	I liked learning about creating methods
	Loops. Luther made it very clear
	Recursion, because it breaks down a complicated problem into a repeatable step, which is how I like to approach things
	The first couple of classes were my favorite because programming was new and interesting
	recursion, fascinating idea
	The first few lectures were my favorite because they were the easiest concepts to learn.
	I would say my favorite lecture was when we were discussing ambiguity, and were trying to figure out how to teach people to fold a paper airplane with unambiguous instructions. It was interesting and made me rethink how I think about solutions to problems, in a more logical, algorithmic way.
	Methods, because it opened my eyes to how things like Call of Duty and such programming examples actually operate and are constructed
	Writing classes, recursion
	Turtle drawings because it was fun.
	The beginning when we learned the basics, I knew nothing about CS before this class
	Loops because it was fun to think about how they worked
	Recursion was the most interesting because it was the most challenging.
	I liked URL scanning. It seemed like the most applicable thing that we did, that was not already done out for us (like the Turtle and World classes). I just found it really interesting.
	Loops because it was one of the few that I actually understood.
	recursion, very interesting topic where it uses itself
	method and class; because they are interesting and intellectually challenging
	The lecture about real time coding because it showed the direct use of coding.
	i really enjoyed the first part of the semester when we wrote programs to accomplish tasks or make a simple game. I liked the way the code flowed and enjoyed that 100% of the code written was mine and not part yours or a partners
	Homework 6, where we designed a Joust game. This was enjoyable because you could really see what you were doing as you did it, and you were given free reign to add your own effects.
	I enjoyed learning the concepts that were easier to grasp.
	Recursion was interesting
	The first one on turtles.
	Recursions were very interesting. It was good to know how it worked.
	Ciphers; it is something I had a previous interest in
	Not sure. I enjoyed it all really.

~ QUESTIONS AND DETAILS ~	~ ANSWER MATRICES ~
	Hello World because it was easy. I enjoyed learning Java but general CS techniques like recursion was very interesting. n/a loops, they make sense and make potentially tedious code a lot easier I enjoyed the garbage collection lecture. making the game I really liked working on the birds, because it was a lot of fun to figure the things out and get everything working. Turtles, because our first coding involved moving turtles around loop; just fun. I like making my own classes the best because you can mold them how you want to. Joust because it was the most complex Recursion. It is an interesting concept. recursion, because it revealed a lot of the fundamental operations of java while being a useful tool the parts i understood I enjoyed the topic of arrays and arraylists due to the abstract thinking that was involved Loops, being able to figure them out and just repeat things. Not sure. It was just a fun course overall I enjoyed the sections on loops especially, and the various ways of conceptualizing a problem in order to solve it using one type of loop or another. Learning about loops; it was when everything began making better sense for me. I enjoyed making the turtles draw pictures because I understood it and it was cool to see my code actually come to life in a way.
5. 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-1110-001, Tychonievich, Luther Total: 86 Individual Answers: *See below for Individual Results*
	methods Everything Classes Making methods All I think if I major in CS, most all of the topics will be useful. The big ones would be classes, methods, recursion, and loops probably. general knowledge in coding, the homework assignments really helped Arrays The lecture on how to use CSV files will be helpful in the future, when I need to import information into a code. However, I found all of the lectures incredibly relevant in helpful. Basic Java programming will most likely be the most useful in the future, considering that I will definitely not major in this insanely tough field. Methods/classes What makes good code as the principles seems to apply to most any solutions.

~ QUESTIONS AND DETAILS ~	~ ANSWER MATRICES ~
	i am not pursuing a job that includes CS but being able to read code and understand it will could provide useful in the future
	the straight ability to code and knowledge of java
	what makes a good program and good code, etc
	learning how to write classes/ methods was and will be the most helpful throughout the course and in any future classes
	class/method writing
	making and using classes
	basic knowledge of coding
	Algorithms and searching for the most efficient way to accomplish a task.
	Coding
	How to code java in general
	Can't really single out a useful topic. Programming in general is useful for a lot of fields.
	learning java
	Maybe the search methods.
	Applications of topics to homework problems. Problem solving.
	I think if I go into CS in the future, definitely the knowledge of loops, whether it be for, while, do, etc. or if statements will be very helpful when dealing with more complicated code.
	I would say the lecture about binary search was useful because of the way he tore up the telephone book to explain how binary searches work. It made a lot of sense, and was an interesting way of approaching the concept.
	Methods and classes since these will be used in large CS projects in the future
	I found the loops the most interesting
	Hopefully the concept of computer language will carry over as I study statistics and use related software.
	I don't know.
	Solving problems in general
	The overall topic of logical thinking; why things work the way they do and how to analyze its efficiency and improve upon it.
	Recursion because it comes up in other subject areas.
	Writing classes
	Writing classes
	learning about methods
	All of them
	The topics of if statements and for loops because they form the base of coding.
	Methods
	Using recursion effectively.
	class and method
	methods and classes
	explanations of how memory works
	I believe the class is general will help me to better understand CS.
	The first few lectures about ambiguity and generally how computers work set up the class and topic very well.
	Most of them were useful.

~ QUESTIONS AND DETAILS ~	~ ANSWER MATRICES ~
	Search method arraylist
	loops
	loops
	writing methods/classes
	The ability to complete a task that will seconds after writing some lines of code that would otherwise take hours.
	The general knowledge gained about programming
	I think loops and array's were the topics that I found really useful in the future and recursion(even though I am still in the process of fully understanding it)
	I found loops the most useful because you only have to make one statement in order to get the code to repeat.
	URL scanning. That made me feel like making a website or something similar is realistic.
	How to live-code Mario
	Using computers to organize information
	reading urls
	If statements (I often begin to put real situations into if statements in my head).
	The first few lectures will be the most useful in the future because it was very basic programming that could be used to improve efficiency in other fields besides CS.
	Searching methods or recursion
	Comparing Java to other languages.
	Loops
	Loops
	Loops
	thinking with "CS logic"
	Classes for the same reason. Also just the first couple lectures in general because he really started from ground zero, and for someone like me who had never taken computer science, it was a big help.
	Loops
	Basic CS skills
	I think the most useful topic for the future will be loops
	the different kinds of loops
	Class Writing. This topic brought together everything we learned and I feel that the basic thought process behind it can be applied to other problems as well.
	Not a specific lecture, but the course as a whole.
	introduction to classes, because it allows to make reusable code
	The lessons with recursion
	recursion??
	The basic ones about what JAva is and what it can do.
	java
	Array list lectures.
	Explaining how a computer works out a program, made computers less "magical" and more "dumb"
	Explanation of static and dynamic languages
	The flappy bird homework helped consolidate the different class topics into a workable game/model.

~ QUESTIONS AND DETAILS ~	~ ANSWER MATRICES ~
	Loops. writing classes
6. 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-1110-001, Tychonievich, Luther Total: 76 Individual Answers: *See below for Individual Results*
	The lecture about other programming codes; binary, linear, etc... snooze fest. The turtle drawings at the beginning seemed like a strange place to start as it used a lot of things we learned later in the course. It worked, just strangely. Recursion seemed stupid. Everything recursion can do, I can do with a for-loop/other loop method. Recursion, I don't get it and it seems pointless. Recursion Recursion Recursion Turtle The turtle one 80% of it the trash collectors I'm having some difficulty understanding the recursion lectures. The data search lecture was also very confusing to me. none none none none none Encrypted Lecture - Did not want to run around grounds, and I didn't feel like I learned more from the process they all have uses in the real world so i dont view any of them as not useful None. Every lecture was fantastic and helpful. Every lecture seemed to have a purpose. Remains to be seen ambiguity, good code recursion The speed, correctness and simplicity just because there were so many different ways of doing it Everything seemed useful, however I just got really confused about halfway through the semester, so at that point since I was so behind nothing was really working. Reading and writing files i dont know no idea Lecture 36.

~ QUESTIONS AND DETAILS ~	~ ANSWER MATRICES ~
	For the most part I felt everything was pretty useful or I could at least see how it would be useful
	Recursion.
	Group projects. I hated the group homework assignments. The homeworks themselves were fine, but there should have been an option to work alone.
	Nothing.
	none.
	I skipped a few, those didn't work for me
	Recursion- I'd just rather use loops.
	-
	spending weeks just messing with primitives
	Recursive. But that's more a problem of me being distracted for a few lectures, so I didn't fully understand it.
	UML class diagrams were very tedious and not helpful to any of my understanding of classes.
	recursive method
	the lessons on types of searching, optimization, and even the length of time spent on recursion
	The experimentation that was done with the turtle class
	I can't think of any off the top of my head. I wish more real-world examples had been given overall though.
	arraylists
	I think for the most part everything kind of connected eventually to one another so everything was at least somewhat useful, just some more than others.
	The one lecture where we went around looking for encrypted messages wasn't really useful for anything, but it was a nice change of pace. It might be nicer to do that when it's warm, though.
	Nothing seemed too abstract or confusing; all of the topics were pretty straight-forward.
	Recursive
	I think some of the search methods probably could have been skipped since we do not have to know how to code them.
	The day before spring break, Professor Tychnoviech was not present, and the TA's led a lecture. I was very disappointed in the quality of instruction I received on that day. I receive pressure from teachers to show up to class on that last Friday before Spring Break, in fact I had a test in another class on that day. If the professor isn't going to be there, cancel the class and let us go home early.
	When learning recursion, standing up and moving around was not helpful and just was agitating.
	Recursive--way too confusing
	turtle
	turtle
	i think/hope I'll need everything I learned
	The last few lectures were not as useful because it is irrelevant to my future career. It was very detailed and complicated programming that will only be used by people who major in CS or want to go into the game-making field.
	None were not useful
	None
	None
	Revisiting the robot and rooms, because we didn't really learn anything new and the actual most effective way of doing it is way outside our capability.
	test reviews

~ QUESTIONS AND DETAILS ~	~ ANSWER MATRICES ~

The most confusing lecture for me was the activity we did with recursion--I understood the beginning, but it got pretty confusing by the end. Also, I feel it didn't really strengthen my understanding of recursion as much as other lectures and labs had.

turtle because we didn't actually see how it was made to get the end result

n/a

talking about different languages of code was interesting but unnecessary to me.

How a binary search works...

A decent amount of them.

None really. The course seemed to focus on teaching students basic programming and none of the topics can be considered not useful because they're all essential to beginner programming

Recursion doesn't seem useful as for loops are better.

Some of the ending material was a bit useless, as it wasn't necessary to know for the exam nor fun.

I never saw the point in fractals

None!

Not sure

7. How accurate is this statement for you: Pair Programming helped me learn the material better.

~

Question Type: Likert

~

contributed by Tychonievich, Luther (lat7h)

Results for CS-1110-001, Tychonievich, Luther

Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)
101	3.48	1.19	21 (20.79%)	35 (34.65%)	24 (23.76%)	13 (12.87%)	8 (7.92%)

Results for SEAS, 1000-level courses

Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)
290	3.45	1.18	54 (18.62%)	109 (37.59%)	64 (22.07%)	39 (13.45%)	24 (8.28%)

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

~

Question Type: Multiple Choice

~

contributed by Tychonievich, Luther (lat7h)

Results for CS-1110-001, Tychonievich, Luther

Total	Every week (NA)	Every other week (NA)	Once per assignment (NA)	Rarely (NA)	Never (NA)
101	17 (16.83%)	17 (16.83%)	23 (22.77%)	27 (26.73%)	17 (16.83%)

Results for SEAS, 1000-level courses

Total	Every week (NA)	Every other week (NA)	Once per assignment (NA)	Rarely (NA)	Never (NA)
289	44 (15.22%)	47 (16.26%)	63 (21.80%)	86 (29.76%)	49 (16.96%)

9. How would you rate the availability of TAs?

~

Question Type: Likert

~

contributed by Tychonievich, Luther (lat7h)

Results for CS-1110-001, Tychonievich, Luther

Total	Mean	Std Dev	Excellent (4)	Good (3)	Average (2)	Weak (1)	Very Poor (0)
100	3.21	0.84	44 (44.00%)	37 (37.00%)	15 (15.00%)	4 (4.00%)	0 (0.00%)

Results for SEAS, 1000-level courses

Total	Mean	Std Dev	Excellent (4)	Good (3)	Average (2)	Weak (1)	Very Poor (0)
287	3.13	0.88	112 (39.02%)	119 (41.46%)	40 (13.94%)	14 (4.88%)	2 (0.70%)

~ QUESTIONS AND DETAILS ~	~ ANSWER MATRICES ~

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

~

Question Type: Likert

~

contributed by Tychonievich, Luther (lat7h)

Results for CS-1110-001, Tychonievich, Luther

Total	Mean	Std Dev	Excellent (4)	Good (3)	Average (2)	Weak (1)	Very Poor (0)
101	3.04	0.87	34 (33.66%)	42 (41.58%)	21 (20.79%)	3 (2.97%)	1 (0.99%)

Results for SEAS, 1000-level courses

Total	Mean	Std Dev	Excellent (4)	Good (3)	Average (2)	Weak (1)	Very Poor (0)
287	3.04	0.85	91 (31.71%)	133 (46.34%)	50 (17.42%)	10 (3.48%)	3 (1.05%)

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

~

Question Type: Short Answer

~

contributed by Tychonievich, Luther (lat7h)

Results for CS-1110-001, Tychonievich, Luther

Total	Individual Answers
51	*See below for Individual Results*

Thank you for your help

Steph was awesome, but all very nice

TA's in my lab section were very helpful.

One TA was so rushed because there were so many kids waiting that she barely answered my questions. She just said "there are other kids on the queue i need to go." After a long time of trying to figure out my problem, it was a simple mistake that she would've seen in the first 30 seconds if she had just taken the time to look it over.

The TA's during office hours were significantly less helpful than the ones in lab.

TA help was something that really helped with homework assignments and other questions. Only issue is that sometimes there seemed to not be enough of them to go around. I often found myself waiting longer than I would have liked to have my questions answered.

no

no

no

All of them are very knowledgeable and extremely helpful with homework assignments.

There were some that helped a lot, and others who obviously knew what to do, but had trouble communicating it in an effective/easy way.

sometimes the office hours got flooded during certain hours of the day like 4-8 so having more TAs there would help to move through the students questions faster. Also maybe have the TAs do the homework before hand so they actually know about it beforehand

most were very helpful, others didn't seem to know what they were doing

Most of the TA's are great, but for the busy office hours during the later, bigger homework assignments, some of them would get really snappy and demeaning. It's a bit understandable because it is really busy and they are tired, but it was not helpful at all and my questions were often not even answered.

Never went to TA hours, can't comment

My TAs were Artie and Nick, and they were fantastic! They were always available to help, enthusiastic, and encouraging! All of the TAs that I met through office hours were also wonderful.

Some TAs were extremely helpful, while others not so much, making it hard to know how much help you would receive when going to office hours.

The TAs who helped me were so awesome! Jackie Tran and Nick Lytle in particular were really excellent. They were both really good at explaining concepts and Nick even helped me when he wasn't having office hours.

They all did a very good job. They knew their stuff pretty well.

I only went to visit TAs twice; the first time they were moderately helpful, but the second time they weren't at all. Part of the problem is that with longer sections of code (e.g. the longer homework assignments) it's very difficult for them to quickly understand what you're doing and where the problems are.

They were awesome

~ QUESTIONS AND DETAILS ~	~ ANSWER MATRICES ~
	never went to office hours but TA's in lab were helpful and knowledgeable
	TAs were super helpful.
	They hadn't always known the homework material ahead of time so sometimes I would go to office hours and they wouldn't know how to help/
	no
	They were very enthusiastic and definitely change my mind about how enjoyable programming and computer science can be by their demeanor.
	Love Steph and Justin!
	Spend more time with each individual during office hours. After waiting a while in the queue it would be nice to be able to ask a bunch of questions.
	The TA's are awesome and just wanted to make sure we were understanding the material.
	very helpful and awesome amount of time available, but perhaps a few more TAs at a time would be good, considering the queue for office hours took over an hour to see one sometimes.
	Kevin is a great TA! The other TA's that I talked to were great as well but they didn't share their name. Every TA I talked to was really knowledgeable and it surprises me that they're undergrad students!
	Sometimes they were late for hours, or they weren't well prepared for the number of people that showed up, and not enough of them were working.
	waiting too long for sometimes extremely un-useful help
	None.
	I thought Justin and Casey were particularly helpful TA's who were enthusiastic, not only helping me with my homework but teaching/clarifying concepts so I could better understand how they worked.
	They are AWESOME!!!! So helpful and positive. They always encouraged us to figure it out ourselves rather than just telling us the answer, while also providing useful feedback to change our perspective on the assignment/get us out of a rut.
	A lot of the time the TA's had less idea what they were doing than I did. I felt like they got thrown under the bus with a few assignments and were never told how to do them before being sent to office hours.
	Will Grayeski and Joe Scott were two TAs that went above and beyond with their helpfulness. Both were extremely available and helpful in explaining fundamental concepts, above and beyond just helping piece together whatever assignment I was working on.
	N/A
	Shout out to Adam Rosenberg. Just a fantastic TA.
	No
	n/a
	n/a
	n/a
	The TAs are all self-absorbed CS majors, who literally cannot explain a single basic concept to a student without invoking some insanely over-the-top technical definition/term. These should honestly be graduate students, since undergraduates have basically no idea how to teach.
	First year Adam was the best!
	During office hours, Nick was my favorite TA to get help from because he was really enthusiastic, patient, and good at explaining things. He was really good. Courtney was great, too.
	Some are very apathetic. Other speak too quickly in an effort to move along. Some are very good, though.
	I liked how they were able to work with any skill or any place I was at in my level or my program for that particular week.
	Matt Beck is good

~ QUESTIONS AND DETAILS ~	~ ANSWER MATRICES ~

12. 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-1110-001

Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)
101	4.43	0.55	46 (45.54%)	52 (51.49%)	3 (2.97%)	0 (0.00%)	0 (0.00%)	0 (0.00%)

Results for SEAS, 1000-level courses

Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)
1282	3.95	1.04	409 (31.90%)	589 (45.94%)	154 (12.01%)	62 (4.84%)	63 (4.91%)	5 (0.39%)

13. 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-1110-001, Tychonievich, Luther

Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)
101	4.34	0.82	51 (50.50%)	37 (36.63%)	10 (9.90%)	2 (1.98%)	1 (0.99%)	0 (0.00%)

Results for SEAS, 1000-level courses

Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)
1746	3.74	1.15	468 (26.80%)	599 (34.31%)	300 (17.18%)	144 (8.25%)	99 (5.67%)	136 (7.79%)

14. 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-1110-001

Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)
100	4.28	0.77	42 (42.00%)	48 (48.00%)	7 (7.00%)	2 (2.00%)	1 (1.00%)	0 (0.00%)

Results for SEAS, 1000-level courses

Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)
1279	4.02	0.93	404 (31.59%)	620 (48.48%)	148 (11.57%)	74 (5.79%)	29 (2.27%)	4 (0.31%)

15. 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-1110-001

Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)
99	4.52	0.61	56 (56.57%)	39 (39.39%)	3 (3.03%)	1 (1.01%)	0 (0.00%)	0 (0.00%)

Results for SEAS, 1000-level courses

Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)
1274	3.92	1.17	473 (37.13%)	449 (35.24%)	149 (11.70%)	98 (7.69%)	77 (6.04%)	28 (2.20%)

16. 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-1110-001

Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)
101	3.54	1.11	18 (17.82%)	39 (38.61%)	23 (22.77%)	11 (10.89%)	6 (5.94%)	4 (3.96%)

Results for SEAS, 1000-level courses

Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)
1277	3.30	1.17	158 (12.37%)	339 (26.55%)	299 (23.41%)	145 (11.35%)	100 (7.83%)	236 (18.48%)

~ QUESTIONS AND DETAILS ~	~ ANSWER MATRICES ~

17. The course material was well organized and developed.

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Question Type: Likert

~

contributed by Dean of the School of Engineering and Applied Science

Results for CS-1110-001, Tychonievich, Luther

Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)
99	4.24	0.79	42 (42.42%)	41 (41.41%)	12 (12.12%)	3 (3.03%)	0 (0.00%)	1 (1.01%)

Results for SEAS, 1000-level courses

Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)
1726	3.74	1.10	402 (23.29%)	676 (39.17%)	294 (17.03%)	113 (6.55%)	99 (5.74%)	142 (8.23%)

18. 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-1110-001, Tychonievich, Luther

Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)
99	4.76	0.50	76 (76.77%)	21 (21.21%)	0 (0.00%)	1 (1.01%)	0 (0.00%)	1 (1.01%)

Results for SEAS, 1000-level courses

Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)
1729	4.16	1.00	714 (41.30%)	586 (33.89%)	175 (10.12%)	52 (3.01%)	60 (3.47%)	142 (8.21%)

19. The instructor was well prepared for class.

~

Question Type: Likert

~

contributed by Dean of the School of Engineering and Applied Science

Results for CS-1110-001, Tychonievich, Luther

Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)
101	4.57	0.61	62 (61.39%)	34 (33.66%)	3 (2.97%)	1 (0.99%)	0 (0.00%)	1 (0.99%)

Results for SEAS, 1000-level courses

Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)
1729	4.09	0.96	603 (34.88%)	677 (39.16%)	202 (11.68%)	56 (3.24%)	50 (2.89%)	141 (8.16%)

20. 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-1110-001

Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)
100	3.61	0.98	11 (11.00%)	21 (21.00%)	18 (18.00%)	6 (6.00%)	1 (1.00%)	43 (43.00%)

Results for SEAS, 1000-level courses

Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)
1276	3.58	1.14	195 (15.28%)	268 (21.00%)	212 (16.61%)	88 (6.90%)	50 (3.92%)	463 (36.29%)

21. The grading policy was fair.

~

Question Type: Likert

~

contributed by Dean of the School of Engineering and Applied Science

Results for CS-1110-001, Tychonievich, Luther

Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)
100	4.26	0.73	40 (40.00%)	48 (48.00%)	11 (11.00%)	0 (0.00%)	1 (1.00%)	0 (0.00%)

Results for SEAS, 1000-level courses

Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)
1735	3.59	1.25	403 (23.23%)	601 (34.64%)	207 (11.93%)	206 (11.87%)	141 (8.13%)	177 (10.20%)

~ QUESTIONS AND DETAILS ~	~ ANSWER MATRICES ~

22. 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-1110-001, Tychonievich, Luther

Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)
99	4.36	0.78	48 (48.48%)	42 (42.42%)	3 (3.03%)	5 (5.05%)	0 (0.00%)	1 (1.01%)

Results for SEAS, 1000-level courses

Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)
1727	4.04	0.96	556 (32.19%)	691 (40.01%)	210 (12.16%)	74 (4.28%)	43 (2.49%)	153 (8.86%)

23. 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-1110-001, Tychonievich, Luther

Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)
101	4.56	0.59	60 (59.41%)	37 (36.63%)	2 (1.98%)	1 (0.99%)	0 (0.00%)	1 (0.99%)

Results for SEAS, 1000-level courses

Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)
1738	3.87	1.14	536 (30.84%)	584 (33.60%)	218 (12.54%)	137 (7.88%)	81 (4.66%)	182 (10.47%)

24. 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-1110-001

Total	Less than 1 (NA)	1 - 3 (NA)	4 - 6 (NA)	7 - 9 (NA)	10 or more (NA)
101	3 (2.97%)	27 (26.73%)	49 (48.51%)	13 (12.87%)	9 (8.91%)

Results for SEAS, 1000-level courses

Total	Less than 1 (NA)	1 - 3 (NA)	4 - 6 (NA)	7 - 9 (NA)	10 or more (NA)
1283	107 (8.34%)	559 (43.57%)	457 (35.62%)	127 (9.90%)	33 (2.57%)

25. I learned a great deal in this course.

~

Question Type: Likert

~

contributed by Office of the Provost

Results for CS-1110-001

Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)
99	4.44	0.69	53 (53.54%)	39 (39.39%)	5 (5.05%)	2 (2.02%)	0 (0.00%)

Results for SEAS, 1000-level courses

Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)
1274	3.77	1.26	442 (34.69%)	440 (34.54%)	162 (12.72%)	117 (9.18%)	113 (8.87%)

26. Overall, this was a worthwhile course.

~

Question Type: Likert

~

contributed by Office of the Provost

Results for CS-1110-001

Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)
100	4.45	0.77	58 (58.00%)	32 (32.00%)	8 (8.00%)	1 (1.00%)	1 (1.00%)

Results for SEAS, 1000-level courses

Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)
1279	3.74	1.33	476 (37.22%)	395 (30.88%)	150 (11.73%)	119 (9.30%)	139 (10.87%)

~ QUESTIONS AND DETAILS ~	~ ANSWER MATRICES ~

27. 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-1110-001, Tychonievich, Luther

Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)
99	4.43	0.61	48 (48.48%)	47 (47.47%)	3 (3.03%)	1 (1.01%)	0 (0.00%)

Results for SEAS, 1000-level courses

Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)
1724	3.89	1.03	515 (29.87%)	733 (42.52%)	329 (19.08%)	65 (3.77%)	82 (4.76%)

28. 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-1110-001, Tychonievich, Luther

Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)
100	3.97	0.85	31 (31.00%)	38 (38.00%)	28 (28.00%)	3 (3.00%)	0 (0.00%)

Results for SEAS, 1000-level courses

Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)
1727	3.82	1.00	475 (27.50%)	670 (38.80%)	434 (25.13%)	95 (5.50%)	53 (3.07%)

29. Overall, the instructor was an effective teacher.

~

Question Type: Likert

~

contributed by Office of the Provost

Results for CS-1110-001, Tychonievich, Luther

Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)
101	4.28	0.75	46 (45.54%)	37 (36.63%)	18 (17.82%)	0 (0.00%)	0 (0.00%)

Results for SEAS, 1000-level courses

Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)
1738	3.71	1.14	487 (28.02%)	608 (34.98%)	408 (23.48%)	124 (7.13%)	111 (6.39%)

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

~

Question Type: Short Answer

~

contributed by Office of the Provost

Results for CS-1110-001

Total	Individual Answers
40	*See below for Individual Results*

This class was extremely difficult for me to grasp, maybe because I am just not meant to do CS or something. Sometimes, I felt Professor Tychonievich is just so smart that he would go quickly through concepts that other people may have had more trouble understanding. A lot of times I felt lost in the class and would feel more and more behind as time would go on. Overall, the class was good at some points but I definitely feel there are areas it could improve.

I really enjoyed this course. Tychonievich is an excellent lecturer, makes his classes very entertaining and involved; he would always gauge students' comfort with topics before moving on. He didn't try to stick rigidly to the syllabus but taught to the class itself. I thought he was excellent.

Typically, I would put some smart ass analogy in here describing how great/terrible the class was. For CS, I can't think of a good enough one. Great class. Great instructor. Changed my whole perspective on programming.

no

when I talked to others who had previously taken the course with professor Sheriff, they lamented that Sheriff was no longer teaching the course. I was able to see a lecture by Sheriff, and I believe that Tychonievich was just as engaging, fun, and clear as Sheriff was.

fast-paced

Overall, I thought the course was well taught, well organized, personable. When dealing with 600 students, it cant be easy, but I did not feel as though I was lost in the crowd. My only true complaint was the last day of class before spring break (above)

~ QUESTIONS AND DETAILS ~	~ ANSWER MATRICES ~
	Tychonievich is the man!
	I loved this course. It made me want to major in Computer Science.
	Great professor, great course. Very happy I took this class.
	Wonderful course. I didn't know anything about CS going into it, and now I want to be a CS major. Luther is a wonderful professor; ironically enough, this class was more hands on than almost any other science i've taken, despite the fact that it is technologically based.
	I am really glad I took this class! The teacher was really awesome and it was a lot of fun. :)
	Very worthwhile course!
	great class. Tychonievich lectures very well.
	Professor Tychonievich knows his CS but I thought that there was too much information in each lecture and that he went too fast. Before I had a chance to copy down 2-3 lines of code he had already put up another 10 or so. To be fair, he did record all of his lectures and post them to his website along with lecture notes. I wish I had utilized these more.
	One of the best courses I've taken thus far at UVa. Tychonievich is an excellent teacher.
	Really enjoyed this class and I think it is very well designed.
	I thought there was a massive jump in the amount of knowledge we were supposed to have to do the homework between the last individual homework (the Scanner) and the first paired homework (purple map). Just looking at HW 5 scared me, and it seemed very intimidating at first. I'm not sure whether this might be because of the snow days and therefore less build-up or what.
	Love the class
	So useful- I had no knowledge before but I want to take another class in CS now
	While this is an engineering class required for all first year engineering students, there should be some spots reserved for first years in the college. It's extremely difficult for some first years who are majoring in Cognitive Science (in which CS is a requirement for the major) to enroll in CS.
	pointless class
	This course was way to difficult for an introductory class. I took 1110 assuming that I would be successful even though I had never taken computer science before. This was not the case. The course was very difficult for a student who had not taken CS before. The homework assignments were far beyond what was discussed in lecture and left me and my homework partners frustrated and confused. Overall, very frustrating course and I'm happy that I never have to take a class like this again. Professor Tychonievich was helpful outside of class and made himself available.
	N/A
	Assignments are hard and time consuming. Course materials a practical and interesting
	We didn't do the classic "Hello, World" introductory program. =(
	n/a
	n/a
	I loved this course! This was my first exposure to CS, and I wasn't sure what to expect. However, I loved this course (and subject) so much that not only am I constantly coding in my free time, but I'm also now considering a minor in CS!
	I liked this class. It was tough but I though the tests and homework were fair. I don't like the quizzes, those are inconvenient and don't help me learn anything. Also, the TA office hours were extremely helpful but sometimes so many people would go that you would have to wait for like an hour.
	1110 students who pick up the materials quickly and easily should be able to test out of having to go to labs without switching to 1111
	-
	I thoroughly enjoyed the course and gave me a new appreciation for CS as a whole.
	I personally stuggled a bit because I feel this is a subject you kinda have to play around with to understand and I could not find the time to do that due to a heavy course load this semester; however I think the professor and TAs did a pretty good job

~ QUESTIONS AND DETAILS ~	~ ANSWER MATRICES ~
	This was my favorite course this semester and, even though I've thought for a while I wanted to be a Computer Science major, my first Computer Science class. Luther Tychonievich is a very capable instructor from whom I learned a lot. My experience in this class helped confirm to myself that I did want to be a Computer Science major. fun challenging course. It is hard to teach a class to 200 people and I thought you did a great job. great course, Tychonievich is a funny guy and knows his stuff While the homework was a large part of the overall grade, I felt that it could be even larger. I think the most important element of this course is problem solving, since the vast majority of students will not enter the field of computer science. It was a worthwhile course, the only issue sometimes was paired programming could be difficult arrange. However, I feel I benefited by taking this class.