CS 1110-003 **Introduction to Programming** - Fall 2017

ENGR (21825)

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

Respondents: 47 / Enrollment: 121

Summary: CS 1110-003 Introduction to Programming - Fall 2017 (21825)

Overall Course Rating

CS-1110-003 Mean 4.34
CS-1110-003 Std Dev 0.85
CS-1110-003 Response Count 235

SEAS, 1000-level courses Mean 3.70
SEAS, 1000-level courses Std Dev 1.18
SEAS, 1000-level courses Response Count 11056

Overall Instructor Rating

INSTRUCTOR: Tychonievich, Luther
Mean 4.69
Std Dev 0.58
Response Count 327

SEAS, 1000-level courses Mean 4.07
SEAS, 1000-level courses Std Dev 1.04
SEAS, 1000-level courses Response Count 22715

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

1. I found the in-lab code explanations were useful in motivating me to understand the course topics better.
~
Question Type: Likert
~
contributed by Tychonievich, Luther (lat7h)

Results for CS-1110-003, Tychonievich, Luther

Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)
47	4.17	1.03	21 (44.68%)	19 (40.43%)	3 (6.38%)	2 (4.26%)	2 (4.26%)

Results for SEAS, 1000-level courses

Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)
150	3.84	1.10	49 (32.67%)	54 (36.00%)	26 (17.33%)	16 (10.67%)	5 (3.33%)

2. How would you rate the availability of TAs?
~
Question Type: Likert
~
contributed by Tychonievich, Luther (lat7h)

Results for CS-1110-003, Tychonievich, Luther

Total	Mean	Std Dev	Excellent (4)	Good (3)	Average (2)	Weak (1)	Very Poor (0)
47	3.36	0.70	23 (48.94%)	18 (38.30%)	6 (12.77%)	0 (0.00%)	0 (0.00%)

Results for SEAS, 1000-level courses

Total	Mean	Std Dev	Excellent (4)	Good (3)	Average (2)	Weak (1)	Very Poor (0)
150	3.22	0.79	64 (42.67%)	58 (38.67%)	25 (16.67%)	3 (2.00%)	0 (0.00%)

3. How would you rate the helpfulness of the TAs?
~
Question Type: Likert
~
contributed by Tychonievich, Luther (lat7h)

Results for CS-1110-003, Tychonievich, Luther

Total	Mean	Std Dev	Excellent (4)	Good (3)	Average (2)	Weak (1)	Very Poor (0)
46	3.35	0.82	25 (54.35%)	13 (28.26%)	7 (15.22%)	1 (2.17%)	0 (0.00%)

Results for SEAS, 1000-level courses

Total	Mean	Std Dev	Excellent (4)	Good (3)	Average (2)	Weak (1)	Very Poor (0)
149	3.12	0.89	59 (39.60%)	57 (38.26%)	27 (18.12%)	4 (2.68%)	2 (1.34%)

4. Any specific comments about the TAs you would like to share?
~
Question Type: Short Answer
~
contributed by Tychonievich, Luther (lat7h)

Results for CS-1110-003, Tychonievich, Luther

Total	Individual Answers
25	*See below for Individual Results*

no

no

All my TA's are dank. Sean Gatewood is the man.

always available

Some didn't know what we did in class so they tried to help with more advanced information.

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

~ QUESTIONS AND DETAILS ~	~ ANSWER MATRICES ~

The TA's in my section were fairly helpful, but intimidating at times.

Never went to TAs

The TAs worked very well together in the sense that if one did not know the answer they would find someone who did.

Nice and helpful.

TAs are passionate and very helpful.

The TA's Made sure i knew the concepts, not just the assignment

None

They were very helpful.

sometimes when they are explaining things it made it more confusing

All of my TA's were super helpful and if they did not initially know an answer to something, they would look it up.

very good atmosphere, they were very knowledgeable yet were still approachable as students

The review session can be more like a overall structure of knowledge than answering pieces of questions.

Some TAs were very helpful and made it easy to apply what they were explaining but others did not know what they were talking about .

N/A

The only real interaction I had with TA's were during office hours, but they were very helpful (although they weren't my TA's)

They were kind and were very helpful.

The TAs seemed to not want to hand out any answers to students, which I appreciate, but did not do so in the correct manner. Instead of actually doing another example they typically gave me an incomplete answer that did not truly help me in understanding the code I was asking about in lab.

Lab TA's were very helpful

great

They were all pretty cool

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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-1110-003, Tychonievich, Luther	
Total	Individual Answers
33	*See below for Individual Results*

The basis of coding and a little bit on python and how it connects to major systems that are taught in other classes.

I felt like the logic activities were kind of a waste of time and would have rather had more time to work on the labs

being able to draw data from files and analyze

Regex coding

Probably webpage reading and such

Everything

Cryptography was a lot of fun

Gathering information from the internet

everything

Strings and variables

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

~ QUESTIONS AND DETAILS ~	~ ANSWER MATRICES ~
	python
	The interaction with computer. How to think like a computer:)
	When we learned about game development.
	for loops and if statements
	debugging
	search engines(regexs)
	being able to call on other files
	Regular expressions
	The game creation was the most fun but the most useful will probably be loops and functions. I also feel the lectures we just had regarding how the internet works will also be very useful; however, they are in the 'varies by section' part.
	extracting data from files
	The topics about extracting information from the source code of websites.
	The way of thinking in coding.
	Evrything
	N/A
	Syntax, code structure, understanding general concepts
	I think I will find the basic logic behind if statements useful in the future.
	Review sessions
	Functions
	Lists and basic computer functions.
	loops
	They all seemed useful
	Defining functions
	gamebox

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-1110-003, Tychonievich, Luther	
Total	Individual Answers
32	*See below for Individual Results*

	Everything was useful
	I feel everything is this class seemed useful.
	Gamebox
	Nothing comes to mind
	none. All lectures were useful
	turtle
	Figuring out how many monsters can cross a river
	None I can think of
	The brain teasers
	none

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~ QUESTIONS AND DETAILS ~	~ ANSWER MATRICES ~

ones where there were simple functions that could do it for you

I feel as if all the basic concepts were useful.

I do not think regular expressions will be very relevant to me in the future.

Gamebox did not seem useful for the future.

Regular expressions

I think some part of the course is designed to increase students' interests in computer science, which is unnecessary.

Regexs

regex

I think gamebox is not very useful in the future, but it is an excellent way to learn the python language.

N/A

N/A

N/A

pygame

I don't think Trutle was very useful. I generally prefer getting into "Real Code" as soon as possible.

Everything seemed relatively useful/

nothing

gamebox seems a little pointless, I understand that it us just a medium for us to show what we know about code, but I would rather work on a project similar to what I will do as an engineer in the future

I think all the topics are fairly useful.

Pygame

gamebox

gamebox

Regex

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-1110-003, Tychonievich, Luther

Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)
46	3.61	1.27	15 (32.61%)	10 (21.74%)	13 (28.26%)	4 (8.70%)	4 (8.70%)

Results for SEAS, 1000-level courses

Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)
149	3.76	1.18	48 (32.21%)	50 (33.56%)	26 (17.45%)	17 (11.41%)	8 (5.37%)

8. 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-1110-003

Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)
47	4.51	0.59	26 (55.32%)	19 (40.43%)	2 (4.26%)	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)
2207	4.01	0.96	710 (32.17%)	1045 (47.35%)	271 (12.28%)	106 (4.80%)	67 (3.04%)	8 (0.36%)

~ QUESTIONS AND DETAILS ~	~ ANSWER MATRICES ~

9. 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-1110-003, Tychonievich, Luther

Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)
47	4.41	0.78	26 (55.32%)	14 (29.79%)	5 (10.64%)	1 (2.13%)	0 (0.00%)	1 (2.13%)

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)
3250	3.94	1.10	1030 (31.69%)	1163 (35.78%)	372 (11.45%)	210 (6.46%)	142 (4.37%)	333 (10.25%)

10. 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-1110-003

Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)
47	4.57	0.54	28 (59.57%)	18 (38.30%)	1 (2.13%)	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)
2214	3.76	1.28	711 (32.11%)	913 (41.24%)	174 (7.86%)	164 (7.41%)	246 (11.11%)	6 (0.27%)

11. 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-1110-003

Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)
47	4.62	0.57	31 (65.96%)	14 (29.79%)	2 (4.26%)	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)
2214	3.73	1.16	603 (27.24%)	867 (39.16%)	321 (14.50%)	232 (10.48%)	134 (6.05%)	57 (2.57%)

12. 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-1110-003

Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)
47	3.54	1.16	11 (23.40%)	9 (19.15%)	14 (29.79%)	5 (10.64%)	2 (4.26%)	6 (12.77%)

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)
2211	3.25	1.17	205 (9.27%)	433 (19.58%)	416 (18.82%)	215 (9.72%)	138 (6.24%)	804 (36.36%)

13. 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-1110-003, Tychonievich, Luther

Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)
47	4.64	0.64	33 (70.21%)	12 (25.53%)	1 (2.13%)	1 (2.13%)	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)
3249	3.78	1.19	940 (28.93%)	1174 (36.13%)	411 (12.65%)	264 (8.13%)	220 (6.77%)	240 (7.39%)

~ QUESTIONS AND DETAILS ~	~ ANSWER MATRICES ~

14. 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-1110-003, Tychonievich, Luther

Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)
47	4.89	0.31	42 (89.36%)	5 (10.64%)	0 (0.00%)	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)
3249	4.30	0.92	1553 (47.80%)	1013 (31.18%)	255 (7.85%)	102 (3.14%)	63 (1.94%)	263 (8.09%)

15. The instructor was well prepared for class.
~
Question Type: Likert
~
contributed by Dean of the School of Engineering and Applied Science

Results for CS-1110-003, Tychonievich, Luther

Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)
47	4.87	0.34	41 (87.23%)	6 (12.77%)	0 (0.00%)	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)
3240	4.16	1.06	1392 (42.96%)	1005 (31.02%)	259 (7.99%)	140 (4.32%)	128 (3.95%)	316 (9.75%)

16. 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-1110-003

Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)
47	4.35	0.80	16 (34.04%)	11 (23.40%)	3 (6.38%)	1 (2.13%)	0 (0.00%)	16 (34.04%)

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)
2210	3.48	1.20	274 (12.40%)	438 (19.82%)	297 (13.44%)	151 (6.83%)	111 (5.02%)	939 (42.49%)

17. The grading policy was fair.
~
Question Type: Likert
~
contributed by Dean of the School of Engineering and Applied Science

Results for CS-1110-003, Tychonievich, Luther

Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)
47	4.51	0.66	28 (59.57%)	15 (31.91%)	4 (8.51%)	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)
3248	4.03	1.00	1036 (31.90%)	1164 (35.84%)	357 (10.99%)	154 (4.74%)	91 (2.80%)	446 (13.73%)

18. The instructor responded adequately to in-class questions.
~
Question Type: Likert
~
contributed by Dean of the School of Engineering and Applied Science

Results for CS-1110-003, Tychonievich, Luther

Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)
47	4.70	0.59	36 (76.60%)	8 (17.02%)	3 (6.38%)	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)
3243	4.24	0.92	1309 (40.36%)	1118 (34.47%)	232 (7.15%)	97 (2.99%)	70 (2.16%)	417 (12.86%)

~ QUESTIONS AND DETAILS ~	~ ANSWER MATRICES ~

19. 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-1110-003, Tychonievich, Luther

Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)
45	4.82	0.44	38 (84.44%)	6 (13.33%)	1 (2.22%)	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)
3236	4.02	0.99	1068 (33.00%)	1200 (37.08%)	435 (13.44%)	169 (5.22%)	76 (2.35%)	288 (8.90%)

20. 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-1110-003

Total	Less than 1 (NA)	1 - 3 (NA)	4 - 6 (NA)	7 - 9 (NA)	10 or more (NA)
45	2 (4.44%)	12 (26.67%)	23 (51.11%)	5 (11.11%)	3 (6.67%)

Results for SEAS, 1000-level courses

Total	Less than 1 (NA)	1 - 3 (NA)	4 - 6 (NA)	7 - 9 (NA)	10 or more (NA)
2210	219 (9.91%)	932 (42.17%)	739 (33.44%)	247 (11.18%)	73 (3.30%)

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

Results for CS-1110-003

Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)
47	4.64	0.49	30 (63.83%)	17 (36.17%)	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)
2202	3.79	1.13	649 (29.47%)	886 (40.24%)	341 (15.49%)	204 (9.26%)	122 (5.54%)

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

Results for CS-1110-003

Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)
46	4.70	0.59	34 (73.91%)	11 (23.91%)	0 (0.00%)	1 (2.17%)	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)
2205	3.65	1.29	679 (30.79%)	744 (33.74%)	325 (14.74%)	239 (10.84%)	218 (9.89%)

23. 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-1110-003, Tychonievich, Luther

Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)
47	4.68	0.59	34 (72.34%)	12 (25.53%)	0 (0.00%)	1 (2.13%)	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)
3237	4.00	0.99	1086 (33.55%)	1433 (44.27%)	470 (14.52%)	125 (3.86%)	123 (3.80%)

~ QUESTIONS AND DETAILS ~	~ ANSWER MATRICES ~

24. 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-1110-003, Tychonievich, Luther

Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)
47	4.40	0.85	27 (57.45%)	15 (31.91%)	2 (4.26%)	3 (6.38%)	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)
3236	4.07	0.95	1236 (38.20%)	1279 (39.52%)	517 (15.98%)	126 (3.89%)	78 (2.41%)

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

Results for CS-1110-003, Tychonievich, Luther

Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)
47	4.70	0.55	35 (74.47%)	10 (21.28%)	2 (4.26%)	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)
3247	3.91	1.11	1173 (36.13%)	1168 (35.97%)	536 (16.51%)	196 (6.04%)	174 (5.36%)

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

Results for CS-1110-003

Total	Individual Answers
19	*See below for Individual Results*

Effective course at learning basics of programming

Sometime, Professor Tychonievich will say the most important things about a certain topic very quickly, so being able to pause the video lectures is a wonderful way to take notes on that important material.

Sometimes Luther Tychonievich would go through material in class too quickly so students sometimes got lost and confused

This class was super great and I really enjoyed it. I feel that I learned a lot and that Professor Tychonievich did a really great job teaching this class.

It was a great introductory CS course and a very big first step for CS majors.

The videos that Tychonievich makes are super helpful!

N/A

The lecture portion of this course was fantastic, wouldn't change a thing.

Great professor and he explained everything very well.

I personally really enjoyed this class.

Professor Tychonievich brought a wealth of knowledge and creativity to the course. I am not a huge fan of programming, but I enjoyed his class immensely.

it was great!

Very good professor.

I really liked this class

Professor Tychoneivich is an amazing lecturer

A really good intro to computer science. I like the part that it conveys ideas of how computer thinks.

Sean and NG are my homies.

~ QUESTIONS AND DETAILS ~	~ ANSWER MATRICES ~
	This course is very worthwhile. But sometimes it gets too difficult and I feel like the instructors could spend more time going through the homework with us. Prof T. was one of the best teachers I have ever had