Emory University: Emory College of Arts and Sciences
ECAS Course Evaluations (Fa 2023)

Course: QTM-151-1: Intro.to Stat.Computing II - Fall 2023

Instructor: Juan Estrada *

Response Rate: 75/117 (64.10 %)

1 - Percentage of classes you did NOT attend (whether on-campus or synchronous/online).

Response Option	Weight	Frequency	Percent	Percent Responses	Means
0%	(1)	13	17.33%		
1-5%	(2)	24	32.00%		
6-10%	(3)	11	14.67%		
11-15%	(4)	5	6.67%		
16-20%	(5)	5	6.67%		
21-25%	(6)	2	2.67%		
26-30%	(7)	3	4.00%		
31-40%	(8)	2	2.67%		
41-50%	(9)	4	5.33%		
51-60%	(10)	1	1.33%		
61-80%	(11)	1	1.33%		
81-99%	(12)	4	5.33%		
				0 25 50 100	

Response Rate
75/117 (64.10%)

2 - You are taking this course (select all that apply):

Response Option	Weight	Frequency	Percent	Percent Responses
To complete a General Education Requirement	(1)	7	9.33%	
For your major/minor	(2)	64	85.33%	
As a prerequisite for another course	(3)	23	30.67%	
As a pre-professional requirement	(4)	8	10.67%	
Because you are interested in the subject	(5)	23	30.67%	
Response Rate	75/117 (64.1%)			

3 - Your expected grade:

Response Option	Weight	Frequency	Percent	Percent Responses	Means
A	(1)	66	88.00%		
A-	(2)	6	8.00%		
B+	(3)	2	2.67%		
B	(4)	0	0.00%		
B-	(5)	0	0.00%		
C+	(6)	0	0.00%		
C	(7)	0	0.00%		
C-	(8)	0	0.00%		
D+	(9)	0	0.00%		
D	(10)	0	0.00%		
S	(11)	1	1.33%		
U	(12)	0	0.00%		
				0 25 50 100	

Response Rate
75/117 (64.10%)

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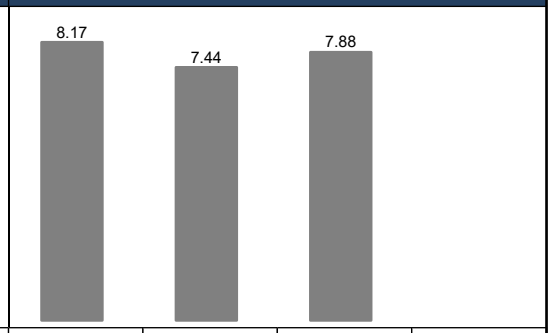
Instructor: Juan Estrada *
Response Rate: 75/117 (64.10 %)

4 - Please respond to the following questions focused on the instructor, Juan Estrada. -

How well organized was the class?

Response Option	Weight	Frequency	Percent	Percent Responses	Means
1 (Not at all)	(1)	0	0.00%		
2	(2)	0	0.00%		
3	(3)	1	1.33%		
4	(4)	0	0.00%		
5 (Somewhat)	(5)	3	4.00%		
6	(6)	2	2.67%		
7	(7)	9	12.00%		
8	(8)	20	26.67%		
9 (Very)	(9)	40	53.33%		
N/A	(0)	0	0.00%		

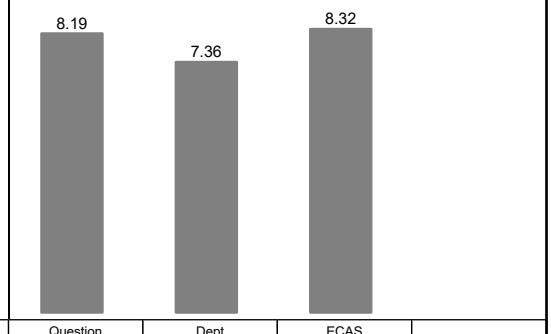


Response Rate	Mean	STD	Median	Dept	Mean	STD	Median	ECAS	Mean	STD	Median
75/117 (64.10%)	8.17	1.20	9.00	1385	7.44	1.85	8.00	22294	7.88	1.64	9.00

4 - Please respond to the following questions focused on the instructor, Juan Estrada. -

Was the instructor enthusiastic about the material?

Response Option	Weight	Frequency	Percent	Percent Responses	Means
1 (Not at all)	(1)	1	1.33%		
2	(2)	0	0.00%		
3	(3)	0	0.00%		
4	(4)	1	1.33%		
5 (Somewhat)	(5)	3	4.00%		
6	(6)	3	4.00%		
7	(7)	7	9.33%		
8	(8)	13	17.33%		
9 (Very)	(9)	47	62.67%		
N/A	(0)	0	0.00%		

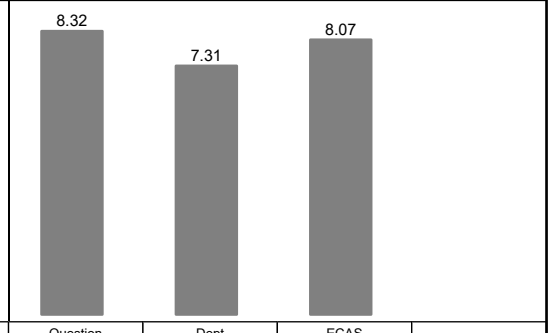


Response Rate	Mean	STD	Median	Dept	Mean	STD	Median	ECAS	Mean	STD	Median
75/117 (64.10%)	8.19	1.45	9.00	1385	7.36	2.00	8.00	22294	8.32	1.34	9.00

4 - Please respond to the following questions focused on the instructor, Juan Estrada. -

How concerned was the instructor with what students learned from the course?

Response Option	Weight	Frequency	Percent	Percent Responses	Means
1 (Not at all)	(1)	1	1.33%		
2	(2)	0	0.00%		
3	(3)	0	0.00%		
4	(4)	1	1.33%		
5 (Somewhat)	(5)	2	2.67%		
6	(6)	2	2.67%		
7	(7)	5	6.67%		
8	(8)	14	18.67%		
9 (Very)	(9)	50	66.67%		
N/A	(0)	0	0.00%		



Response Rate	Mean	STD	Median	Dept	Mean	STD	Median	ECAS	Mean	STD	Median
75/117 (64.10%)	8.32	1.37	9.00	1385	7.31	2.05	8.00	22294	8.07	1.55	9.00

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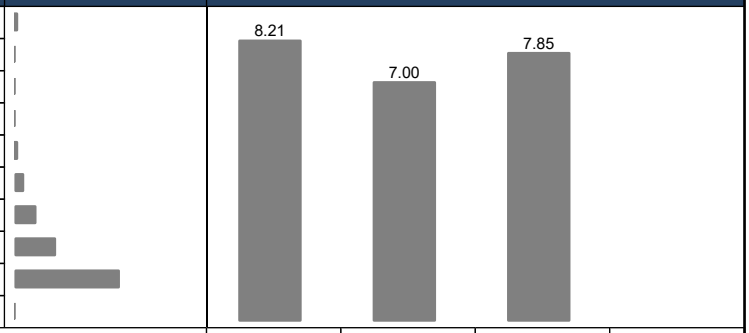
Course: QTM-151-1: Intro.to Stat.Computing II - Fall 2023
Instructor: Juan Estrada *
Response Rate: 75/117 (64.10 %)

4 - Please respond to the following questions focused on the instructor, Juan Estrada. -

How clearly did the instructor explain specific concepts relevant to the course?

Response Option	Weight	Frequency	Percent
1 (Not at all)	(1)	1	1.33%
2	(2)	0	0.00%
3	(3)	0	0.00%
4	(4)	0	0.00%
5 (Somewhat)	(5)	1	1.33%
6	(6)	4	5.33%
7	(7)	9	12.00%
8	(8)	17	22.67%
9 (Very)	(9)	43	57.33%
N/A	(0)	0	0.00%

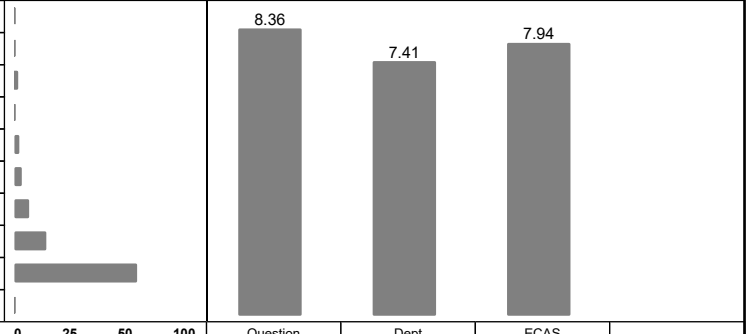


Response Rate	Mean	STD	Median	Dept	Mean	STD	Median	ECAS	Mean	STD	Median
75/117 (64.10%)	8.21	1.29	9.00	1385	7.00	2.20	8.00	22294	7.85	1.71	9.00

4 - Please respond to the following questions focused on the instructor, Juan Estrada. -

How clearly did the instructor communicate the objectives and requirements for the course?

Response Option	Weight	Frequency	Percent
1 (Not at all)	(1)	0	0.00%
2	(2)	0	0.00%
3	(3)	1	1.33%
4	(4)	0	0.00%
5 (Somewhat)	(5)	2	2.67%
6	(6)	3	4.00%
7	(7)	6	8.00%
8	(8)	13	17.33%
9 (Very)	(9)	50	66.67%
N/A	(0)	0	0.00%

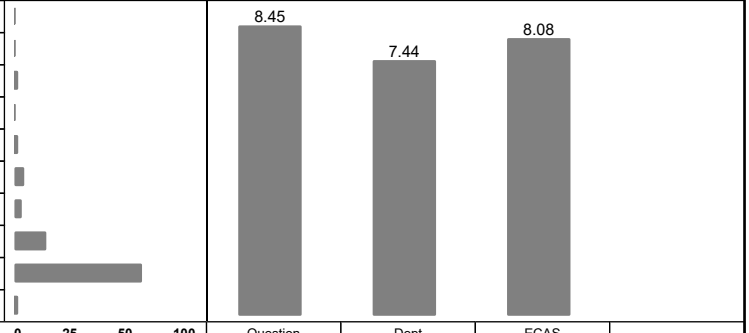


Response Rate	Mean	STD	Median	Dept	Mean	STD	Median	ECAS	Mean	STD	Median
75/117 (64.10%)	8.36	1.17	9.00	1385	7.41	1.94	8.00	22294	7.94	1.67	9.00

4 - Please respond to the following questions focused on the instructor, Juan Estrada. -

How well did the instructor respond to students' questions?

Response Option	Weight	Frequency	Percent
1 (Not at all)	(1)	0	0.00%
2	(2)	0	0.00%
3	(3)	1	1.33%
4	(4)	0	0.00%
5 (Somewhat)	(5)	1	1.33%
6	(6)	4	5.33%
7	(7)	3	4.00%
8	(8)	13	17.33%
9 (Very)	(9)	52	69.33%
N/A	(0)	1	1.33%



Response Rate	Mean	STD	Median	Dept	Mean	STD	Median	ECAS	Mean	STD	Median
75/117 (64.10%)	8.45	1.11	9.00	1385	7.44	1.99	8.00	22294	8.08	1.59	9.00

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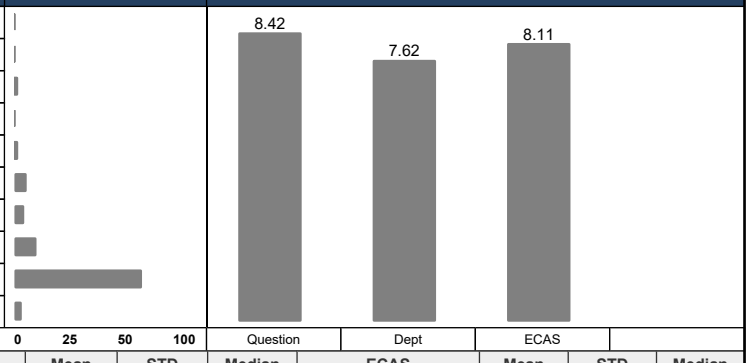
Instructor: Juan Estrada *
Response Rate: 75/117 (64.10 %)

4 - Please respond to the following questions focused on the instructor, Juan Estrada. -

How accessible was the instructor for individual discussion about the course?

Response Option	Weight	Frequency	Percent
1 (Not at all)	(1)	0	0.00%
2	(2)	0	0.00%
3	(3)	1	1.33%
4	(4)	0	0.00%
5 (Somewhat)	(5)	1	1.33%
6	(6)	5	6.67%
7	(7)	4	5.33%
8	(8)	9	12.00%
9 (Very)	(9)	52	69.33%
N/A	(0)	3	4.00%

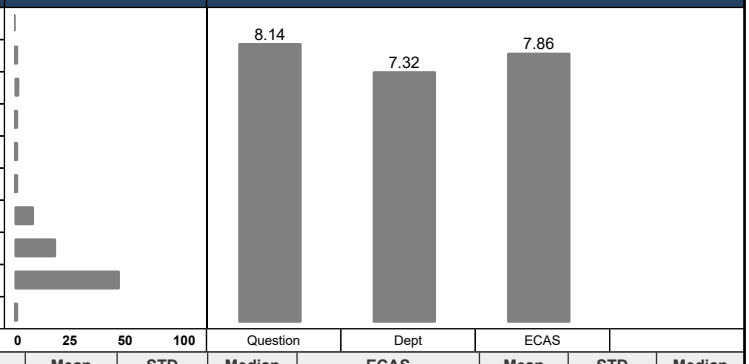


Response Rate	Mean	STD	Median	Dept	Mean	STD	Median	ECAS	Mean	STD	Median
75/117 (64.10%)	8.42	1.17	9.00	1385	7.62	1.85	8.00	22294	8.11	1.56	9.00

5 - How much did this course promote your progress on the following learning objectives?

Acquiring factual knowledge.

Response Option	Weight	Frequency	Percent
1. Not at all or very little	(1)	0	0.00%
2.	(2)	1	1.33%
3.	(3)	2	2.67%
4.	(4)	1	1.33%
5. Somewhat	(5)	1	1.33%
6.	(6)	1	1.33%
7.	(7)	8	10.67%
8.	(8)	17	22.67%
9. Very much	(9)	43	57.33%
N/A	(0)	1	1.33%

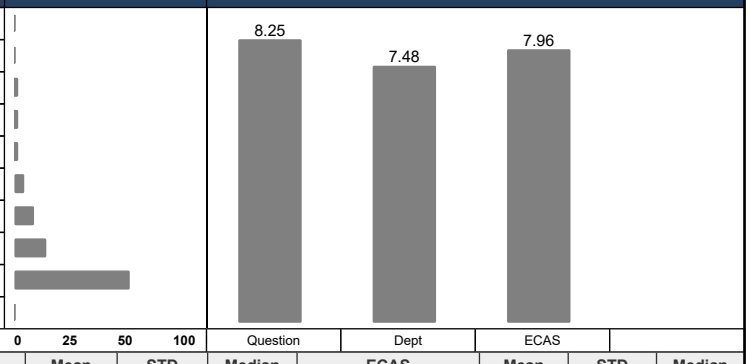


Response Rate	Mean	STD	Median	Dept	Mean	STD	Median	ECAS	Mean	STD	Median
75/117 (64.10%)	8.14	1.50	9.00	1280	7.32	1.96	8.00	20095	7.86	1.68	9.00

5 - How much did this course promote your progress on the following learning objectives?

Understanding basic principles and concepts.

Response Option	Weight	Frequency	Percent
1. Not at all or very little	(1)	0	0.00%
2.	(2)	0	0.00%
3.	(3)	1	1.33%
4.	(4)	1	1.33%
5. Somewhat	(5)	1	1.33%
6.	(6)	4	5.33%
7.	(7)	8	10.67%
8.	(8)	13	17.33%
9. Very much	(9)	47	62.67%
N/A	(0)	0	0.00%



Response Rate	Mean	STD	Median	Dept	Mean	STD	Median	ECAS	Mean	STD	Median
75/117 (64.10%)	8.25	1.25	9.00	1280	7.48	1.87	8.00	20095	7.96	1.60	9.00

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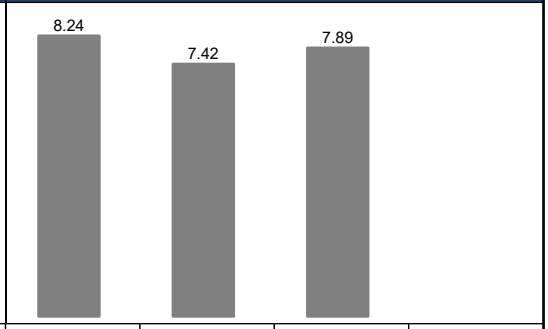
Response Rate: 75/117 (64.10 %)

5 - How much did this course promote your progress on the following learning objectives?

Being able to apply facts, concepts and principles to specific questions.

Response Option	Weight	Frequency	Percent	Percent Responses
1. Not at all or very little	(1)	0	0.00%	
2.	(2)	0	0.00%	
3.	(3)	0	0.00%	
4.	(4)	1	1.33%	
5. Somewhat	(5)	3	4.00%	
6.	(6)	3	4.00%	
7.	(7)	8	10.67%	
8.	(8)	15	20.00%	
9. Very much	(9)	45	60.00%	
N/A	(0)	0	0.00%	

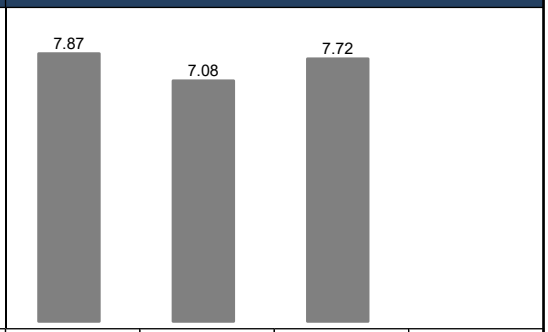


Response Rate	Mean	STD	Median	Dept	Mean	STD	Median	ECAS	Mean	STD	Median
75/117 (64.10%)	8.24	1.18	9.00	1280	7.42	1.91	8.00	20095	7.89	1.66	9.00

5 - How much did this course promote your progress on the following learning objectives?

Being able to assess or critique ideas and arguments.

Response Option	Weight	Frequency	Percent	Percent Responses
1. Not at all or very little	(1)	0	0.00%	
2.	(2)	2	2.67%	
3.	(3)	1	1.33%	
4.	(4)	2	2.67%	
5. Somewhat	(5)	2	2.67%	
6.	(6)	4	5.33%	
7.	(7)	9	12.00%	
8.	(8)	11	14.67%	
9. Very much	(9)	39	52.00%	
N/A	(0)	5	6.67%	

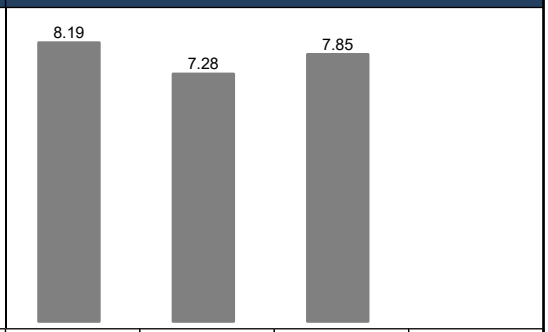


Response Rate	Mean	STD	Median	Dept	Mean	STD	Median	ECAS	Mean	STD	Median
75/117 (64.10%)	7.87	1.74	9.00	1280	7.08	2.14	8.00	20095	7.72	1.84	9.00

5 - How much did this course promote your progress on the following learning objectives?

Being able to integrate and synthesize information.

Response Option	Weight	Frequency	Percent	Percent Responses
1. Not at all or very little	(1)	0	0.00%	
2.	(2)	0	0.00%	
3.	(3)	2	2.67%	
4.	(4)	1	1.33%	
5. Somewhat	(5)	1	1.33%	
6.	(6)	3	4.00%	
7.	(7)	9	12.00%	
8.	(8)	12	16.00%	
9. Very much	(9)	46	61.33%	
N/A	(0)	1	1.33%	



Response Rate	Mean	STD	Median	Dept	Mean	STD	Median	ECAS	Mean	STD	Median
75/117 (64.10%)	8.19	1.38	9.00	1280	7.28	1.98	8.00	20095	7.85	1.72	9.00

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Instructor: Juan Estrada *
Response Rate: 75/117 (64.10 %)

6 - Please answer the following questions, again focusing on the instructor (Juan Estrada). -

How well did the exams and/or assignments reflect the course material?

Response Option	Weight	Frequency	Percent
1 (Not at all)	(1)	0	0.00%
2	(2)	0	0.00%
3	(3)	1	1.33%
4	(4)	0	0.00%
5 (Somewhat)	(5)	3	4.00%
6	(6)	1	1.33%
7	(7)	4	5.33%
8	(8)	15	20.00%
9 (Very)	(9)	50	66.67%
N/A	(0)	1	1.33%

Percent Responses: 0 25 50 100

Means: 8.41 (Question), 7.67 (Dept), 7.98 (ECAS)

Response Rate	Mean	STD	Median	Dept	Mean	STD	Median	ECAS	Mean	STD	Median
75/117 (64.10%)	8.41	1.16	9.00	1385	7.67	1.73	8.00	22294	7.98	1.60	9.00

6 - Please answer the following questions, again focusing on the instructor (Juan Estrada). -

Was the instructor's feedback on exams, papers, performance useful?

Response Option	Weight	Frequency	Percent
1 (Not at all)	(1)	0	0.00%
2	(2)	0	0.00%
3	(3)	0	0.00%
4	(4)	2	2.67%
5 (Somewhat)	(5)	0	0.00%
6	(6)	6	8.00%
7	(7)	8	10.67%
8	(8)	12	16.00%
9 (Very)	(9)	44	58.67%
N/A	(0)	3	4.00%

Percent Responses: 0 25 50 100

Means: 8.22 (Question), 7.07 (Dept), 7.62 (ECAS)

Response Rate	Mean	STD	Median	Dept	Mean	STD	Median	ECAS	Mean	STD	Median
75/117 (64.10%)	8.22	1.21	9.00	1385	7.07	2.18	8.00	22294	7.62	1.95	8.00

6 - Please answer the following questions, again focusing on the instructor (Juan Estrada). -

Were the instructor's grading criteria for the course clear?

Response Option	Weight	Frequency	Percent
1 (Not at all)	(1)	0	0.00%
2	(2)	0	0.00%
3	(3)	0	0.00%
4	(4)	0	0.00%
5 (Somewhat)	(5)	1	1.33%
6	(6)	7	9.33%
7	(7)	5	6.67%
8	(8)	12	16.00%
9 (Very)	(9)	49	65.33%
N/A	(0)	1	1.33%

Percent Responses: 0 25 50 100

Means: 8.36 (Question), 7.64 (Dept), 7.82 (ECAS)

Response Rate	Mean	STD	Median	Dept	Mean	STD	Median	ECAS	Mean	STD	Median
75/117 (64.10%)	8.36	1.05	9.00	1385	7.64	1.78	8.00	22294	7.82	1.84	9.00

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Response Rate: 75/117 (64.10 %)

7 - In general, what were your expectations for this course?	
Response Rate	75/117 (64.1%)

- I was just expecting to learn pytho
- I expected to learn some knowledge about python and SQL
- learn some basic python skills
- Though it was going to give me a good grasp of pythin
- My expectations were that I will have mastered most of the basic functions and methods used to filter and manipulate data through python, since this is an introductory course to python.
- Learn how to use python and learn some data structure
- I expected to be able to gain some knowledge on how to use python and apply it in other projects in the future. I expected this course to lay the foundation of any other programming class I take in the future.
- easy class since i've learned most of the contents before
- To learn python properly and being able to know how to code when facing a real world problem.
- I expected to learn the basics of python and be fairly comfortable with statistical coding in this language by the end. I was also hoping to be able to have materials to reference when coding in the future, whether from my own notes or class materials. Lastly, I hoped that I would gain some basic skills with coding in general.
- low
- Being able to use Python fluently in simple tasks.
- My expectations were to learn a lot about Python.
- I was expecting to learn more about data analysis with Python. I was hoping to be able to apply what I learn to solve different data analysis problems.
- I expect that I could learn various knowledge of Python and be able to understand it and use it to process data for different purposes.
- Learn to use Python with some level of proficiency.
- Learning Python in terms of data science.
- good learning
- I expect the course to be informative and practical.
- na
- To get a basic understanding of python
- basic programming
- Allow me to learn about analyzing data using python.
- To learn data analytics in Python
- I expected to learn the SQL and Python coding languages
- I thought it would be very similar in structure to QTM 150
- Coding
- I expected to gain a working proficiency of Python and SQL that I could build on further in individual projects.
- Learn python and sql
- To complete it for my major requirement
- learn statistical coding in python
- to learn about how to process datasets in python
- I wanted to learn python as I never learned to code before.
- Learn coding
- I expected to gain a basic understanding of introductory topics in the coding language Python through application based classes and other assignments.
- I expected to gain a basic understanding of Python and its main purposes.
- N/A
- acquire basic knowledge about python
- intro to python
- My expectations for this course are that I will learn basics of python and how to apply it to specific problems and our real life situations.
- I expected to learn coding via python.
- To get better at coding
- To gain a very general understanding about data manipulation/cleaning in the Python coding language.
- An intro class for beginners to learn how to work with python.
- Being able to use python on simple algorithms and know the syntax and commands to import/export
- NA
- learn python.
- Learn some basic python skills
- To Learn the syntax of python and pandas
- Learn about python and sql

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Response Rate: 75/117 (64.10 %)

- I expected a course where we applied Python to various coding project/assignments, somewhat like CS170.
- Learn about python
- Using python to derive, calculate, and analyze statistics
- Achieve a general base in python.
- To become more fluent with python
- Further my knoweldge in python and sql
- To learn python and SQL
- to learn some basic grammars of python
- To gain some knowledge on the Python Language. Understand the basics.
- learn more about coding
- My expectation is to learn some critical skills since python is a really useful tool.
- learn basic data manipulation tools in python and SQL
- none
- I expected to learn how to use Python to perform data analysis
- Review python, learn SQL, and better apply both for data analysis.
- I wished to learn basics of python.
- I expected to learn the basics of Python and how I could use it to answer data questions
- Learning python basics
- My expectation is that it can help me to understand some basic ideas about python.
- To learn about stats and Python
- Get more practice, get my python up to level with my R skills
- learn how to organize data in python
- To Learn Python
- basics of python
- I hoped to walk away with new knowledge in using python to conduct basic data analysis.

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ECAS Course Evaluations (Fa 2023)

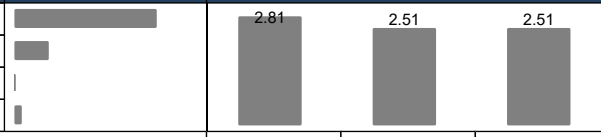
Course: QTM-151-1: Intro.to Stat.Computing II - Fall 2023

Instructor: Juan Estrada *

Response Rate: 75/117 (64.10 %)

8 - Were your expectations realized?

Response Option	Weight	Frequency	Percent	Percent Responses
Yes	(3)	58	77.33%	
Partially	(2)	14	18.67%	
No	(1)	0	0.00%	
I had no expectations for this class	(0)	3	4.00%	



Response Rate	Mean	STD	Median	Dept	Mean	STD	Median	ECAS	Mean	STD	Median
75/117 (64.10%)	2.81	0.40	3.00	848	2.51	0.65	3.00	848	2.51	0.65	3.00

- I really liked the lecture notebooks and how we could make our own copy to edit - it was really helpful to have those materials when in class and studying and working on assignments. I think learning how to read error messages - and that this was stressed - was really beneficial because I found that, since we were told to pay attention to this, by the end I could figure out my own mistakes quickly (I was hoping to be fairly independent so this was really big for me).
- I am not fully sure that I could apply them to reality
- I learned about both of these programs and have developed a strong coding foundation
- I feel that I have accomplished this general proficiency in relevant skills as well as some experience in their application to larger/more complex problems.
- I felt like the homework assignments were too similar to the in-class work to really build understanding. Makes sense though, since the class is only worth 2 credits.
- I didn't actually learn any SQL, it was barely brushed over.
- Less stats
- none
- I have acquired many news skills in using python and sql to organize data and visualize data.

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9 - What parts of this class interested you the most?	
Response Rate	75/117 (64.1%)

- data manipulation and visualization
- Coding
- also learn about a little sql
- Final Project
- using the packages, which helped simplify things a lot compared to using R, in which we didn't start using packages for that language until much later (after a few courses)
- Everything is helpful
- Importing datasets and creating visualisations based on the data.
- sql
- Everything is kinda interesting, I like how we work with actual dataset and see how our code changes the data.
- I thought it was interesting to learn a lot of the terminology used, especially as a beginner - it was nice to be more familiar with the language around coding.
- sql
- The application of the language
- All of the new Python content I learned.
- The material was very engaging! I learned a lot and the lecture notes were great! The assignments and quizzes also allowed me to apply what I learned and solve problems related to it, enhancing my understanding.
- The most interested part in this class is that I not only learned python but also have the opportunity to being familiar with SQL.
- Python proves to be very useful and it helps my other classes too.
- All parts
- assignments
- working with f1 dataset
- assignments were fun
- SQL
- project
- The parts used for data analysis.
- I am interested the most in data manipulation
- I was most interested in working with data sets and its real-world application
- SQL, as I had never seen it before
- Coding
- The lessons on manipulating and visualizing data in Python.
- use python to draw graphs
- learning of a new language
- coding
- learning all about how to clean, use, and present data
- I liked creating graphs and data tables just by telling a computer to do a command.
- Coding
- N/A
- Learning to write functions and clean data.
- Matplotlib
- group project
- learning how to code on python
- SQL
- sql
- learning sql
- The section of our course that focused on basic OLS and the ability to run our own regression models.
- Switching to SQL was interested.
- data manipulation
- NA
- Coding
- How to merge data and clean it
- Learning SQL and how to link python to it.
- Coding
- SQL, regex

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- writing codes
- No specific preference
- Being able to analyze data with python
- SQL
- Learning about SQL
- Learning how to apply python methods to analyze data.
- the sample datasets used in the class are pretty interesting, under realistic contexts
- The computing language.
- homework
- How to sort data
- N/a
- learn about python
- Creating plots/tables using pandas and matplotlib to organize and synthesize data
- Dataframe creation and methods for data analysis. Regressions >>>
- I like the lectures.
- The final project where we could choose our own questions to answer with tools we had gathered throughout the year
- Data analysis & data sets
- Lectures.
- The data anylityics
- Python
- aggregatting data
- Visualizations
- learning python
- I really enjoyed learning about all the new ways to use python and using it for data analysis.

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10 - What parts of this class interested you the least?	
Response Rate	75/117 (64.1%)

- na
- None
- quizzes
- SQL
- probably syntax structuring
- Nothing
- NA
- python basics
- Nothing really.
- I personally wasn't that interested in the datasets we used, but they were straightforward and had a lot of variety. Therefore, while the content did not intrigue me, they worked really well for learning.
- python
- The basic syntax of the language (very useful though, just not interesting)
- The SQL did not interest me as much.
- Nothing in particular. If anything, maybe the topic of the final project? But I still overall enjoyed what we are supposed to work on for the final project, I'm just not particularly interested in Formula 1.
- N/A
- Python
- None
- quizes
- the chapter after sql
- na
- N/A
- nothing
- NA.
- I am interested the least in SQL
- I was least interested in the learning of SQL, as I am still not entirely sure on how it is more efficient and we did not spend much time on that language
- Python, as I had worked with it extensively in the past
- N/A
- Conversions from SQL to Python and from Python to SQL
- NA
- N/A
- coding
- learning SQL (even though it might be useful for the future)
- When we got to more complicated stuff, it was hard to understand the material, so consequently, I became less interested.
- None
- N/A
- SQL. I still don't really understand the point of it if you have to use Python to import data into SQL anyways.
- N/A
- quiz
- sqlbook
- data cleaning
- none
- n/a
- Creating SQL connections to Python
- /
- basic arithmetical commands
- NA
- final project
- Use sql.
- Nothing really
- the sql formats are a bit complicated
- The notes feel very disorganized.

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- sql
- No specific preference
- SQL
- linear regression with scipy
- N/A
- n/a
- the instructor explains the concepts in a little slow-paced manner, which is a little tedious, but this is understandable.
- N/A
- tests
- How to make a graph
- N/a
- none
- datetime functions
- Lectures were very dry.
- The quizzes.
- We spent a good bit of time working with virtual environments and terminal commands which felt disconnected from the actual content of Python
- N/A
- Project.
- SQL
- NA
- no
- Sorting
- homeowkr and quizzes
- Taking the quiz in class can be an uneasy experience because I'm not used to the seats in classroom.

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11 - Any suggestions for how this course might be improved (e.g., parts that should have received more or less attention; topics or exercises that could be added, etc.)?

Response Rate	21/117 (17.95%)

• This class seems more suitable as an online class, but where professors simply post videos of lectures on Canvas with in-person office hours. I also would've liked to see more packages and more lectures dedicated to various distributions (e.g. normal, beta, gamma, etc).

• I think there should be more assignments or other ways of testing the material so that the concepts are reinforced regularly. Usually there is only one assignment and one quiz available to test a particular concept which seems logical but I would have liked more frequent assessments so that I can learn the concepts better.

• Professor Estrada could be more familiar with the contents he is teaching and explain things to students have no knowledge about python and sql in a way to be more easily understood.

• I do not have any suggestions, simply because I think the class was so well structured. It was a little tough at the beginning, but that was to be expected as I had never coded before. I noticed how I got more comfortable coding overtime, which felt really encouraging. For example: at the beginning of the semester, the assignments would take me at least 2 hours and I would have to ask for help. On the last one, I was done in 20 minutes and could easily figure out my own mistakes. In both cases, I was still typing out the code myself and working through it, I just think I had gained the necessary insight and understanding of python generally that it was easier later in the semester (and SQL was easier simply because I had that general understanding of code from learning python). I appreciated the set up with the notebooks, lectures, assignments, and quizzes. We had all the material we needed and many opportunities to practice. The professor and TAs were also always great at answering questions. I liked the variety in topics we learned as well because we covered a lot of ground and I think this type of coding will be really helpful in future careers.

• class way too big

• N/A

• na

• I think if this course went a little slower and was moved to a 3-credit, 1 hour 15 minute class it would be very helpful for students

• N/A

• I would like the professor to go over the past concepts from time to time, because I sometimes am not familiar with the language usage and would forget

• I believe that the course had a very complete set of topics that made it a holistic provision of information to the topic and successfully gave me the tools that I was expecting going into the course.

• I think the class should focus less on simple arithmetic commands and if else statementss. I think if else, for loop, and arithmetic syntax together should not take more than 1 class to finish.

• N/A -- Juan was a very good instructor and I wish him the best as he transitions to Industry.

• In my experience, I feel like there should have been more exposure to SQL since databases are a massive part of data science in industry. I'm not sure if it will be covered in future courses but it would have been nice to know more. And maybe it's because we almost exclusively used data science packages in Python, but the content just felt very disjointed. It would be nice if the notes worked up into a few large "projects" so that we can see how the different topics might work together (as opposed to learning about chaining later in the semester) so we don't lose interest.

• The asynchronous manner is actually better for me. You can watch the recordings at more flexible time, pause and replay at anytime, skip parts that you think is easy.

• More exercises/practice problems that reflected quiz questions

• Make the lectures more engaging.

• I would've liked more creative assignments where instead of understanding a formula for answering problems we would have to apply concepts in unique ways

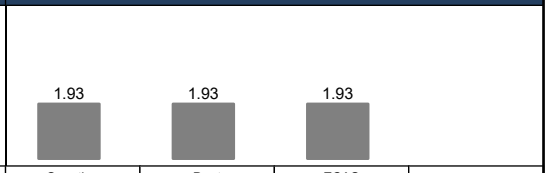
• Dont allow chagbt because it can be used to complete every assignment super easily

• more projects less hw

• Since our quizzes are open note and take the entire class, we can transition toward out-of-class quizzes like we do sometimes this semester.

12 - On 1-5 scale, how confident did you feel about using Python before taking this class? (1=not confident at all; 5=very confident)

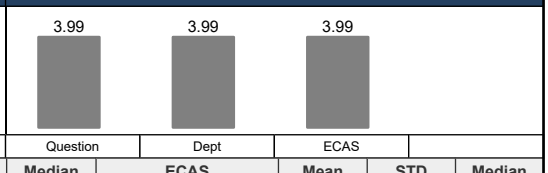
Response Option	Weight	Frequency	Percent	Percent Responses
1	(1)	39	52.00%	
2	(2)	16	21.33%	
3	(3)	9	12.00%	
4	(4)	8	10.67%	
5	(5)	3	4.00%	



Response Rate	Mean	STD	Median	Dept	Mean	STD	Median	ECAS	Mean	STD	Median
75/117 (64.10%)	1.93	1.20	1.00	75	1.93	1.20	1.00	75	1.93	1.20	1.00

13 - On 1-5 scale, how confident do you now feel about using Python after taking this class? (1=not confident at all; 5=very confident)

Response Option	Weight	Frequency	Percent	Percent Responses
2	(2)	2	2.67%	
3	(3)	16	21.33%	
4	(4)	38	50.67%	
5	(5)	19	25.33%	



Response Rate	Mean	STD	Median	Dept	Mean	STD	Median	ECAS	Mean	STD	Median
75/117 (64.10%)	3.99	0.76	4.00	75	3.99	0.76	4.00	75	3.99	0.76	4.00

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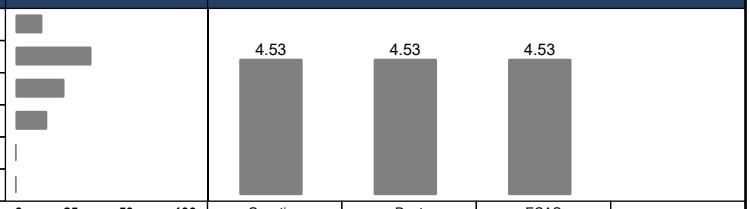
Instructor: Juan Estrada *

Response Rate: 75/117 (64.10 %)

14 - Please rate the ease or difficulty you have with independently performing tasks in Python.

Using data visualizations to explore and understand data

Response Option	Weight	Frequency	Percent
Extremely easy	(6)	11	14.67%
Moderately easy	(5)	31	41.33%
Neither easy nor difficult	(4)	20	26.67%
Moderately difficult	(3)	13	17.33%
Extremely difficult	(2)	0	0.00%
Cannot do at all	(1)	0	0.00%

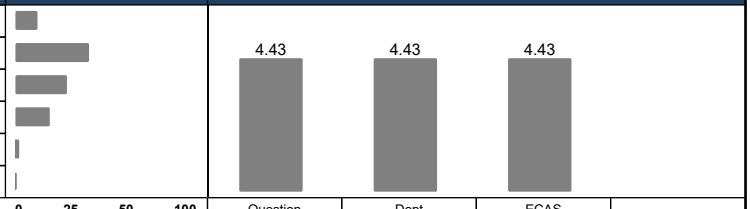


Response Rate	Mean	STD	Median	Dept	Mean	STD	Median	ECAS	Mean	STD	Median
75/117 (64.10%)	4.53	0.95	5.00	75	4.53	0.95	5.00	75	4.53	0.95	5.00

14 - Please rate the ease or difficulty you have with independently performing tasks in Python.

Reshaping data into a more convenient form for analysis or reporting

Response Option	Weight	Frequency	Percent
Extremely easy	(6)	9	12.00%
Moderately easy	(5)	30	40.00%
Neither easy nor difficult	(4)	21	28.00%
Moderately difficult	(3)	14	18.67%
Extremely difficult	(2)	1	1.33%
Cannot do at all	(1)	0	0.00%

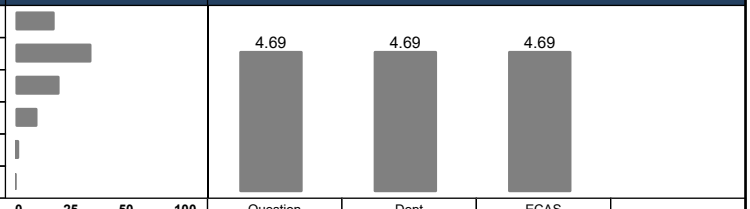


Response Rate	Mean	STD	Median	Dept	Mean	STD	Median	ECAS	Mean	STD	Median
75/117 (64.10%)	4.43	0.98	5.00	75	4.43	0.98	5.00	75	4.43	0.98	5.00

14 - Please rate the ease or difficulty you have with independently performing tasks in Python.

Basic data collection, storage, and manipulation procedures

Response Option	Weight	Frequency	Percent
Extremely easy	(6)	16	21.33%
Moderately easy	(5)	31	41.33%
Neither easy nor difficult	(4)	18	24.00%
Moderately difficult	(3)	9	12.00%
Extremely difficult	(2)	1	1.33%
Cannot do at all	(1)	0	0.00%

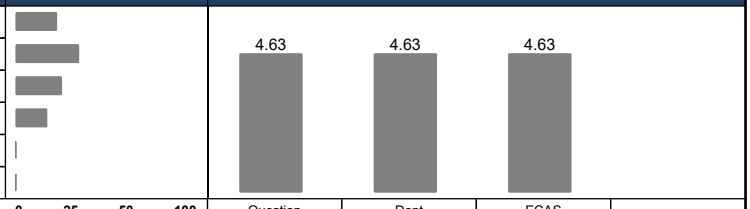


Response Rate	Mean	STD	Median	Dept	Mean	STD	Median	ECAS	Mean	STD	Median
75/117 (64.10%)	4.69	0.99	5.00	75	4.69	0.99	5.00	75	4.69	0.99	5.00

14 - Please rate the ease or difficulty you have with independently performing tasks in Python.

Writing functions

Response Option	Weight	Frequency	Percent
Extremely easy	(6)	17	22.67%
Moderately easy	(5)	26	34.67%
Neither easy nor difficult	(4)	19	25.33%
Moderately difficult	(3)	13	17.33%
Extremely difficult	(2)	0	0.00%
Cannot do at all	(1)	0	0.00%



Response Rate	Mean	STD	Median	Dept	Mean	STD	Median	ECAS	Mean	STD	Median
75/117 (64.10%)	4.63	1.02	5.00	75	4.63	1.02	5.00	75	4.63	1.02	5.00

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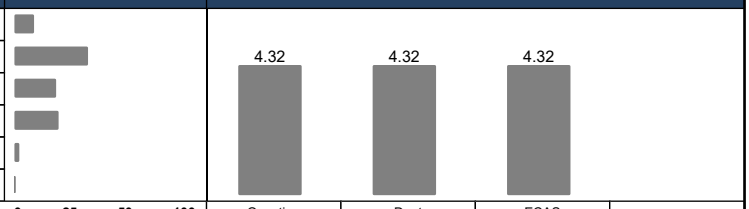
Instructor: Juan Estrada *
Response Rate: 75/117 (64.10 %)

14 - Please rate the ease or difficulty you have with independently performing tasks in Python.

Automating data cleaning and data analysis

Response Option	Weight	Frequency	Percent
Extremely easy	(6)	8	10.67%
Moderately easy	(5)	30	40.00%
Neither easy nor difficult	(4)	17	22.67%
Moderately difficult	(3)	18	24.00%
Extremely difficult	(2)	2	2.67%
Cannot do at all	(1)	0	0.00%

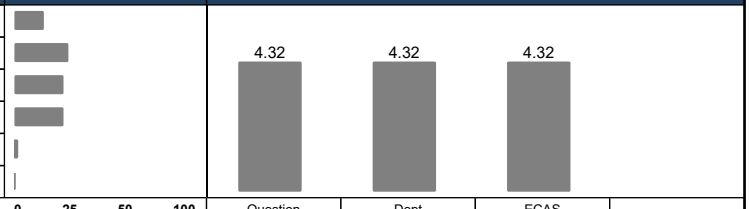


Response Rate	Mean	STD	Median	Dept	Mean	STD	Median	ECAS	Mean	STD	Median
75/117 (64.10%)	4.32	1.04	5.00	75	4.32	1.04	5.00	75	4.32	1.04	5.00

14 - Please rate the ease or difficulty you have with independently performing tasks in Python.

Conducting sampling and basic simulations

Response Option	Weight	Frequency	Percent
Extremely easy	(6)	12	16.00%
Moderately easy	(5)	22	29.33%
Neither easy nor difficult	(4)	20	26.67%
Moderately difficult	(3)	20	26.67%
Extremely difficult	(2)	1	1.33%
Cannot do at all	(1)	0	0.00%

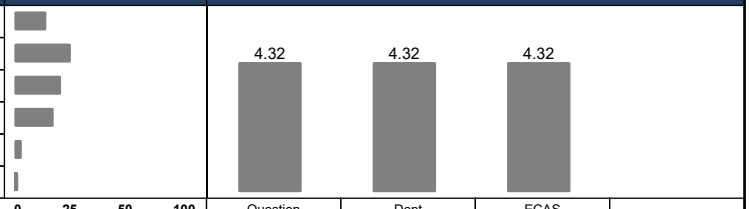


Response Rate	Mean	STD	Median	Dept	Mean	STD	Median	ECAS	Mean	STD	Median
75/117 (64.10%)	4.32	1.08	4.00	75	4.32	1.08	4.00	75	4.32	1.08	4.00

14 - Please rate the ease or difficulty you have with independently performing tasks in Python.

Using resources (such as the built in help() functions, R documentation, stackoverflow) to answer questions on my own

Response Option	Weight	Frequency	Percent
Extremely easy	(6)	13	17.33%
Moderately easy	(5)	23	30.67%
Neither easy nor difficult	(4)	19	25.33%
Moderately difficult	(3)	16	21.33%
Extremely difficult	(2)	3	4.00%
Cannot do at all	(1)	1	1.33%



Response Rate	Mean	STD	Median	Dept	Mean	STD	Median	ECAS	Mean	STD	Median
75/117 (64.10%)	4.32	1.19	4.00	75	4.32	1.19	4.00	75	4.32	1.19	4.00

Mean of Means Calculations	Mean	Dept	ECAS	
Weighted Mean (Course)	**8.14**	**7.32**	**7.86**	
Weighted Mean (Instructor)	**8.31**	**7.40**	**7.97**	
Weighted Mean (Overall)	**8.25**	**7.37**	**7.93**	