Report Comments

Opinions expressed in these evaluations are those of students enrolled in the specific course and do not represent the University.

What are the most important things that you learned in this course? Please reflect on the knowledge and skills you gained.

Comments
Data wrangling, running regressions, clustering, neural networks, some SQL, and generally just getting more comfortable with coding in Python.
Basic SQL, linear regression, classification algorithms such as kNN, logistic regression, decision trees and unsupervised clustering
Basic implementation of various machine learning models — multiple linear regression, k–nearest neighbors classification, logistic regression classification, k–means clustering, hierarchical clustering. Also continued (from 118) learning about data exploration and visualization.
I learned about how to transform, aggregate, and wrangle data as well as create predictive models using linear regression and various forms of classification
Machine learning techniques.
constructing models/ classifiers through Python.
I learned how to use SQL and how to preprocess/clean data before analysis.
A lot of machine learning functions: linear regression, feature selection, neural networks, decision trees, nearest neighbours, logistic regression etc. We got a really good conceptual understanding of all these functions, and the code behind them. Some SQL.

Describe how aspects of this course (lectures, discussions, labs, assignments, etc.) contributed to your learning.

Comments
Lectures are organized, Professor Kube is really kind and willing to help if you're struggling. Assignments were difficult but helped us understand the mechanisms of our code.
Homework assignments were helpful in teaching us how to apply conceptual topics using code. Lecture notebooks were extremely helpful as well as a reference to go back to.
Lectures were useful, though not necessary in person since the lecture Jupyter notebooks were very understandable. Homeworks were doable but often required some office hour visiting. The group project was standard and the final was more difficult than the homeworks but not unreasonably so.
The lectures were very informative and allowed us to practice the topics we covered in class during class time.
I really enjoy how Professor Kube teaches the lecture. They are clear, straight–to–the–point, and include many practice opportunities.
Lectures were really helpful and so were her lecture slides. Overall really organized class.
Professor Kube's lectures are great, plus the Jupyter Notebooks are very well organised. Even though I missed many lectures, I was able to just look through the Jupyter Notebooks and learn literally everything.

Please respond to the following:

	Mean	Median	Strongly Disagree	Disagree	Neutral	Agree	Strongly Agree
This course challenged me intellectually.	4.70	5.00	0.00%	0.00%	0.00%	30.00%	70.00%
I understood the purpose of this course and what I was expected to gain from it.	4.60	5.00	0.00%	0.00%	0.00%	40.00%	60.00%
I understood the standards for success on assignments.	4.00	4.00	0.00%	0.00%	30.00%	40.00%	30.00%
Class time enhanced my ability to succeed in graded assignments.	4.20	4.00	0.00%	0.00%	10.00%	60.00%	30.00%
I received feedback on my performance that helped me improve my subsequent work.	4.00	4.00	0.00%	0.00%	30.00%	40.00%	30.00%
My work was evaluated fairly.	4.10	4.00	0.00%	0.00%	20.00%	50.00%	30.00%
I felt respected in this class.	4.70	5.00	0.00%	0.00%	0.00%	30.00%	70.00%
Overall, this was an excellent course.	4.60	5.00	0.00%	0.00%	0.00%	40.00%	60.00%

Additional comments about the course:

Comments
Professor Kube is great, I cannot recommend her enough. This course was challenging for me, especially as someone who had zero coding experience prior to DATA 118. Attending office hours is recommended. This class was definitely harder than DATA 118.
The lectures are a little bit boring and it feels like we are just reading off the lecture notebooks. I feel like it would have been the same learning experience if I just went through the lecture notebooks on my own. I think there should be a way to make lectures provide more information in order to keep me more engaged.
If you have stats/CS background, this course will not be as easy as Data 118, but still fairly easy. If you only have experience with Data 118, and no other statistics/computer science courses, you may find it a bit challenging.

I would recommend this course to:

	No	Yes
Highly-motivated and well-prepared students	0.00%	100.00%
Anyone interested in the topic	0.00%	100.00%

Thinking about your time in the class, what aspect of the instructor's teaching contributed most to your learning?

Comments
Lectures, practice in class, labs, homework, and one–on–one assistance
Her office hours and her Q&A sessions after class were the most helpful to me, as I think I struggled with specific questions with the homework assignments or the project.
Office hours — she is very solid at explaining concepts.
The sample problems during lectures were helpful
Organized structure, fun examples, and small quizzes at the beginning of each class.
Her lecture slides.
How well organised the lecture slides and Jupyter notebooks were

What could the instructor modify to help you learn more?

Comments
I found some of the lectures and concepts difficult to follow but that might have just been me. I think some concepts weren't explained clearly, especially for people completely unfamiliar with the topic.
For example, the way she taught hierarchical clustering for HW7 (drawing on the whiteboard to demonstrate how the clustering algorithm works) was so helpful during office hours. In lecture, she doesn't do that and just reads off the lecture notes, which I don't think does a very adequate job of explaining the concept. I think if she could explain a lot of the conceptual topics using the board in class that would help a lot.
The group project was not ideal since my group members were dead weight, but I didn't want to hurt their grades by mentioning this to the professor. In an intro class like this, I think projects should be individual, not in groups.
I thought the class was solid.
She teaches a little fast, maybe it would be better to slow down a bit.
Talk to the TAs please. The TAs many times had no idea what was going on in class, they didn't know what topics we were learning. I lost marks on assignments cause they gave me the wrong answers. They gave contradictory statements to the professors. Just not it

The Instructor . . .

	Mean	Median	Strongly Disagree	Disagree	Neutral	Agree	Strongly Agree	N/A
Organized the course clearly.	4.70	5.00	0.00%	0.00%	0.00%	30.00%	70.00%	0.00%
Presented lectures that enhanced your understanding.	4.70	5.00	0.00%	0.00%	10.00%	10.00%	80.00%	0.00%
Facilitated discussions that were engaging and useful.	4.17	4.00	0.00%	0.00%	0.00%	50.00%	10.00%	40.00%
Stimulated your interest in the core ideas of the course.	4.40	4.00	0.00%	0.00%	0.00%	60.00%	40.00%	0.00%
Challenged you to learn.	4.50	5.00	0.00%	0.00%	10.00%	30.00%	60.00%	0.00%
Helped you gain significant learning from the course content.	4.50	4.50	0.00%	0.00%	0.00%	50.00%	50.00%	0.00%
Was available and helpful outside of class.	4.89	5.00	0.00%	0.00%	0.00%	10.00%	80.00%	10.00%
Motivated you to think independently.	4.70	5.00	0.00%	0.00%	0.00%	30.00%	70.00%	0.00%
Worked to create an inclusive and welcoming learning environment.	4.80	5.00	0.00%	0.00%	0.00%	20.00%	80.00%	0.00%
Overall, this instructor made a significant contribution to your learning.	4.70	5.00	0.00%	0.00%	0.00%	30.00%	70.00%	0.00%

Please include the name of the TA/CA/Intern you are evaluating. What aspects of the TA's teaching contributed most to your learning? What could the TA modify to help you learn more? Please include any additional feedback for the TA/CA/Intern.

Comments
Hong Won
Paarth Sharma
As mentioned above they gave contradictory statements to professor, gave wrong answers on the assignments. The first review session was very unorganised, second was marginally better but they confused us with the r = slope concept because the professor gave the opposite answer to that.

## The TA/CA or Intern. . .

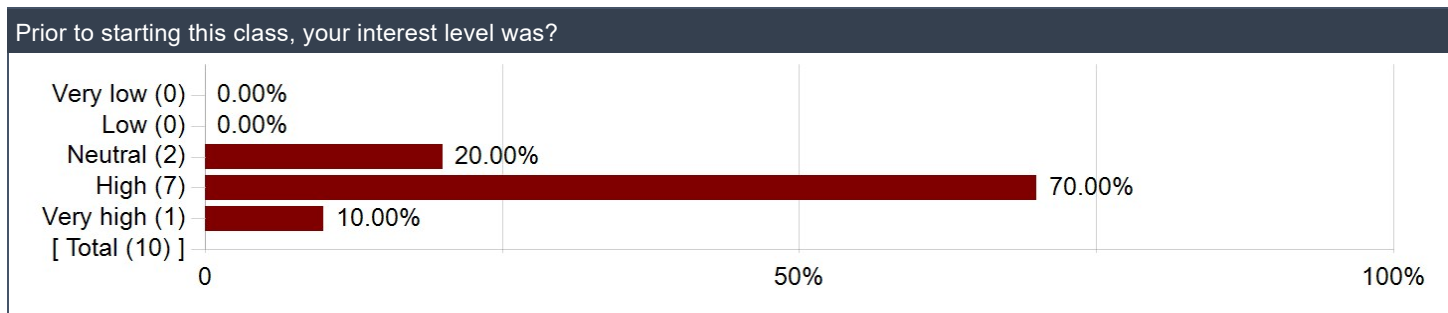|	Mean	Median	Strongly Disagree	Disagree	Neutral	Agree	Strongly Agree	N/A
Facilitated discussions that supported your learning.	3.75	3.50	0.00%	0.00%	40.00%	20.00%	20.00%	20.00%
Gave you useful feedback on your work.	3.50	3.50	0.00%	20.00%	20.00%	20.00%	20.00%	20.00%
Stimulated your interest in the core ideas of the class.	3.50	3.50	0.00%	20.00%	20.00%	20.00%	20.00%	20.00%
Challenged you to learn.	3.50	3.50	0.00%	0.00%	40.00%	40.00%	0.00%	20.00%
Helped you succeed in the class.	3.75	4.00	0.00%	20.00%	0.00%	40.00%	20.00%	20.00%
Was available and helpful outside of class.	4.00	4.00	0.00%	0.00%	20.00%	60.00%	20.00%	0.00%
Overall, this individual made a significant contribution to your learning.	3.75	3.50	0.00%	0.00%	40.00%	20.00%	20.00%	20.00%

How much did the following elements of the course contribute to your learning gains?

	Mean	Median	No Gain	A Little Gain	Moderate Gain	Good Gain	Great Gain	N/A
Laboratory Experience	3.00	3.00	50.00%	0.00%	0.00%	0.00%	50.00%	0.00%
Field Trips	N/A	N/A	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%
Library Sessions	N/A	N/A	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%
Review Sessions	2.00	2.00	0.00%	50.00%	0.00%	0.00%	0.00%	50.00%
Writing Seminars	N/A	N/A	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%

Is this class a requirement of some sort?
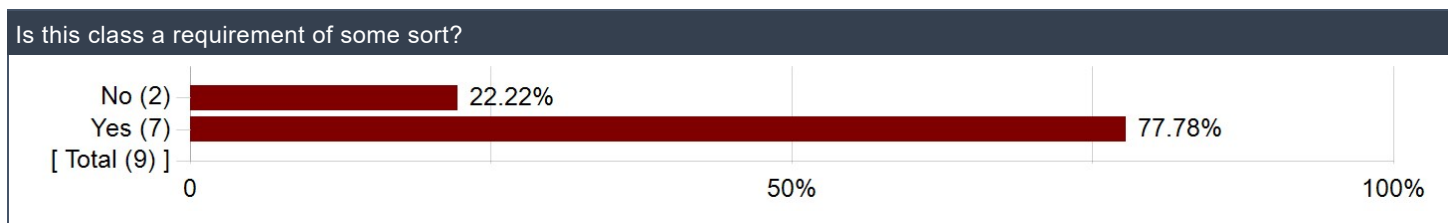
Is this class a requirement of some sort?

No (2)	22.22%
Yes (7)	77.78%
[Total (9)]	

Prior to starting this class, your interest level was?

Prior to starting this class, your interest level was?

Very low (0)	0.00%
Low (0)	0.00%
Neutral (2)	20.00%
High (7)	70.00%
Very high (1)	10.00%
[Total (10)]	

Now that this class is over, your interest is?

Now that this class is over, your interest is?

Diminished (0)	0.00%
Satisfied (4)	40.00%
Heightened (6)	60.00%
[Total (10)]	
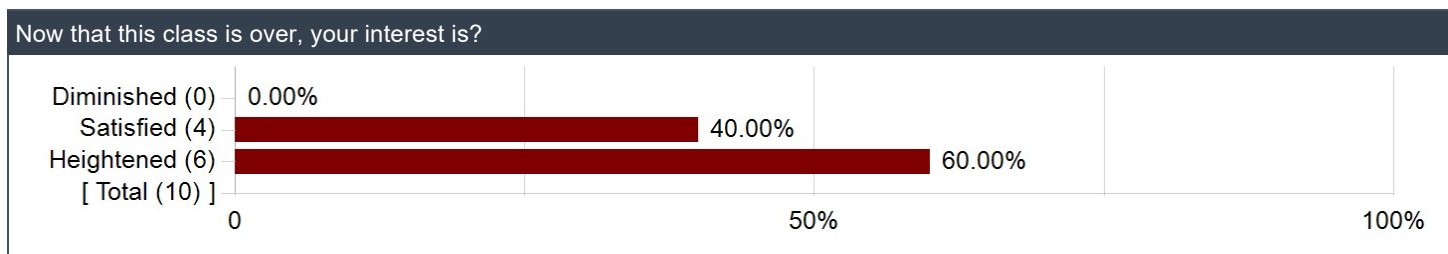
Why did you choose to take this course? (Select all that apply)
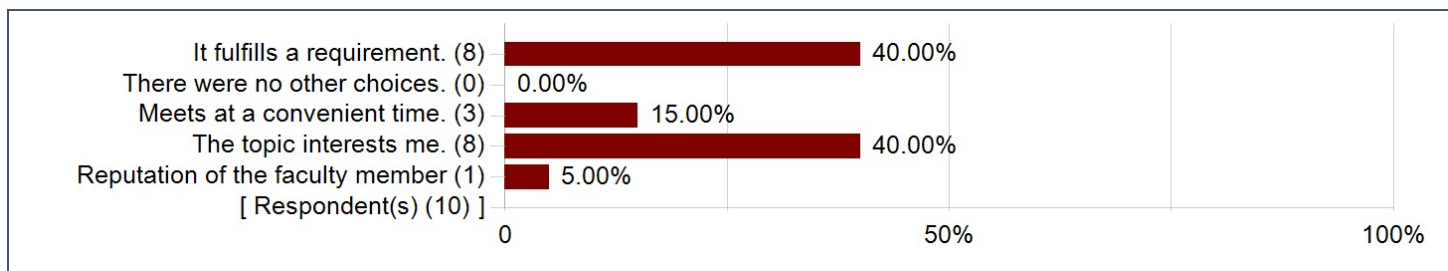
It fulfills a requirement. (8)	40.00%
There were no other choices. (0)	0.00%
Meets at a convenient time. (3)	15.00%
The topic interests me. (8)	40.00%
Reputation of the faculty member (1)	5.00%
[Respondent(s) (10)]	

How many hours per week outside of attending required sessions did you spend on this course?

How many hours per week outside of attending required sessions did you spend on this course?

- <5 hours (0) — 0.00%
- 5-10 hours (7) — 70.00%
- 10-15 hours (2) — 20.00%
- 15-20 hours (1) — 10.00%
- 20-25 hours (0) — 0.00%
- 25-30 hours (0) — 0.00%
- >30 hours (0) — 0.00%
- [Total (10)]

What proportion of classes did you attend?

What proportion of classes did you attend?

- None (0) — 0.00%
- 25% (1) — 10.00%
- 50% (0) — 0.00%
- 75% (4) — 40.00%
- All (5) — 50.00%
- [Total (10)]
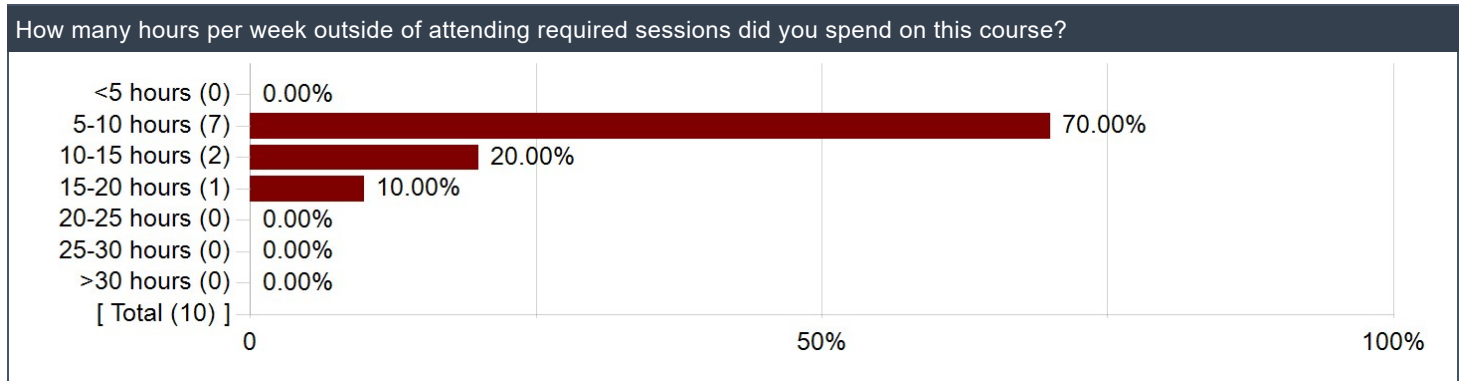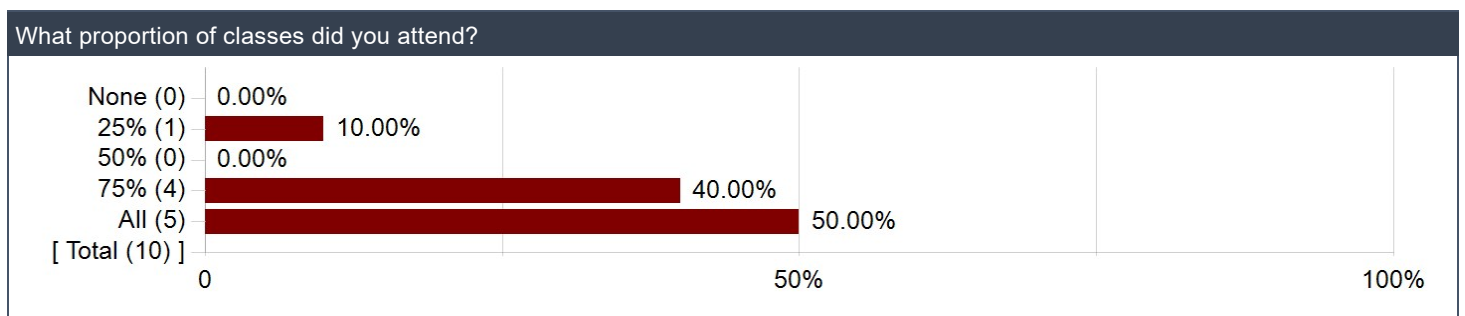
Please comment on the level of difficulty of the course relative to your background and experience.

Comments
Difficult for someone without coding experience, but not excruciatingly so.
I thought it was relatively difficult. I struggled especially with a lot of the homework assignments and went to almost every office hour I could in order to complete them. However, I think this may have had to do with me taking DATA 118 in the summer, so I had less foundation and familiarity with the programs than other students coming from the fall.
Have taken CS 141, 142, 143, AP Stat, Stat 234, and Data 118. I learned more new concepts in this class than 118, but it was still an easy class.
This course is relatively difficult because of the wide variety of topics it covers, but if you stay on top of the material it is very doable
It is relatively harder than DATA 118. More challenging but more fun.
Difficult with no prior experience but overall worth it.
Code difficult but concepts easy. Go to office hours and you'll be fine