Report Comments

Recommended Minimum Response Rates

Class Size	Recommended Minimum Response Rates based on 80% confidence & ± 10% margin
< 10	75%
11 - 19	65%
20 - 34	55%
35 - 49	40%
50 - 74	35%
75 - 99	25%
100 - 149	20%
150 - 299	15%
300 - 499	10%
> 500	5%

Legend

N: Expected
n: Responded

Frequency Distribution
SD: Strongly Disagree
D: Disagree
N: Neutral
A: Agree
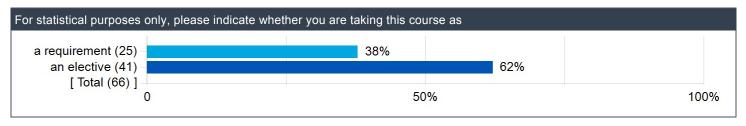SA: Strongly Agree
N/A: Not applicable

Statistics
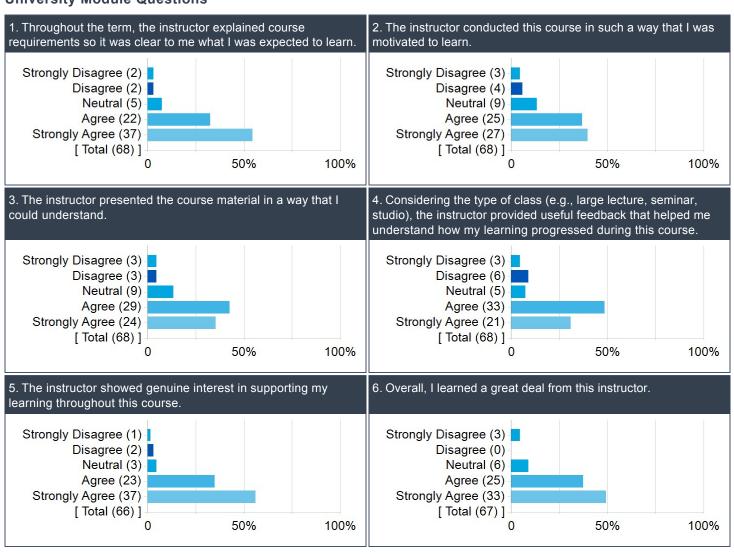IM: Interpolated Median

Creation Date: **Tuesday, January 4, 2022**

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Detailed Results

For statistical purposes only, please indicate whether you are taking this course as

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a requirement (25) — 38%
an elective (41) — 62%
[Total (66)]

University Module Questions

1. Throughout the term, the instructor explained course requirements so it was clear to me what I was expected to learn.

Strongly Disagree (2)
Disagree (2)
Neutral (5)
Agree (22)
Strongly Agree (37)
[Total (68)]

2. The instructor conducted this course in such a way that I was motivated to learn.

Strongly Disagree (3)
Disagree (4)
Neutral (9)
Agree (25)
Strongly Agree (27)
[Total (68)]

3. The instructor presented the course material in a way that I could understand.

Strongly Disagree (3)
Disagree (3)
Neutral (9)
Agree (29)
Strongly Agree (24)
[Total (68)]

4. Considering the type of class (e.g., large lecture, seminar, studio), the instructor provided useful feedback that helped me understand how my learning progressed during this course.

Strongly Disagree (3)
Disagree (6)
Neutral (5)
Agree (33)
Strongly Agree (21)
[Total (68)]

5. The instructor showed genuine interest in supporting my learning throughout this course.

Strongly Disagree (1)
Disagree (2)
Neutral (3)
Agree (23)
Strongly Agree (37)
[Total (66)]

6. Overall, I learned a great deal from this instructor.

Strongly Disagree (3)
Disagree (0)
Neutral (6)
Agree (25)
Strongly Agree (33)
[Total (67)]

	N	n	SD	D	N	A	SA	IM	DI
Throughout the term, the instructor explained course requirements so it was clear to me what I was expected to learn.	154	68	2	2	5	22	37	4.6	0.4
The instructor conducted this course in such a way that I was motivated to learn.	154	68	3	4	9	25	27	4.2	0.6
The instructor presented the course material in a way that I could understand.	154	68	3	3	9	29	24	4.2	0.5
Considering the type of class (e.g., large lecture, seminar, studio), the instructor provided useful feedback that helped me understand how my learning progressed during this course.	154	68	3	6	5	33	21	4.1	0.5
The instructor showed genuine interest in supporting my learning throughout this course.	154	66	1	2	3	23	37	4.6	0.4
Overall, I learned a great deal from this instructor.	154	67	3	0	6	25	33	4.5	0.5

Question	%Favourable
Throughout the term, the instructor explained course requirements so it was clear to me what I was expected to learn.	87%
The instructor conducted this course in such a way that I was motivated to learn.	76%
The instructor presented the course material in a way that I could understand.	78%
Considering the type of class (e.g., large lecture, seminar, studio), the instructor provided useful feedback that helped me understand how my learning progressed during this course.	79%
The instructor showed genuine interest in supporting my learning throughout this course.	91%
Overall, I learned a great deal from this instructor.	87%

Open ended feedback

Do you have any suggestions for what the instructor could have done differently to further support your learning?

Comments
He could have been a bit slower at the start of the course. Being a first time coder it was a pretty intimidating course.
The course was delivered really good. I won't suggest any changes.
Nothing that I can think of! The course seems meticulously designed to ideally support students' learning!
I think that the course was built in a way that frustrated students and created unneeded stresses and headaches. Contacting the professor was convoluted and often was told to as the question in a separate program other than email and any emails were often automated replies or told to talk to someone else about the issue.
Nope I believe this course was a little difficult but on the instructors side he was very kind and patient with explaining concepts.
No
I think that the structure of the course was flawed. We would have labs and milestones for concepts that we had not yet learnt and then were taught the concepts after. I don't think this made sense. Grades were not released as marked, instead kept private until later points which did not allow students to see how they were doing in the course or know if we understood concepts.
If we have not received feedback on lab 6, we shouldn't be working on lab 10.
Let the students access their grades prior to the end of the course.
Less busy work. (Learning Logs).
Teaching material more closely related to the labs would've helped. The lecture material was always so easy and straight forward but I felt that the lab and test assessments were very different or much harder. It made it tough to prepare properly.
Keep this professor at UBCO. The best computer science professor this university has had.
N/a
Dr. Moosvi should re–strcuture the order of his labs to match what our project milestones. For example, we had a tableau dashboard that was due, originally, on November 18th, but our tableau lab was due November 27th. The ordering doesn't make sense at all.
I wish we had a bit more content for Excel and also a second video for the second set of excel notes.
Well this class was described as introductory level data science class that required no previous experience in coding. However, the lectures were all taught with the expectation that we knew the basics, but the intent of the class is to teach us the basics. This class has become an easy elective for comp sci student and an impossible course for those in other faculties. This course needs to be more catering to those who are taking it as a requirement from other faculties instead of being taught as an easy elective for comp sci students. Maybe consider separating the two groups so lectures can be taught in a way that people who don't have a background in this will actually understand the material. I am straight A student who found this class next to impossible. So either change the description of the course to not introductory or separate the groups into different courses. This course was very disappointing for me as a student.
Think what he's doing is really great
Nothing should change. The instructor gave the students many options on how to learn the concepts in lectures and labs.
Providing more clear explanation on certain milestones of the project
Ed discussion sometimes has slow response rates, otherwise nothing.
A few more resources on the Project could really help, especially regarding Tableau.
The course moved a bit quickly and the labs were very difficult without enough instruction in class on how to perform the majority of the tasks.
–
I suggest the professor can slow down the introduction of git, so more students will be interested in the course.
This is mainly my own fault, but during lectures, I sometimes would get confused when Dr. Moosvi used jargon or the correct terms when teaching concepts. It was confusing because the lessons go by very quickly and if I am confused about a few terms, the whole lesson flies right past me. It would be helpful if he quickly explained or reminded us what that term was. Since this is an upper–year level course, I know these terms should be already known by the students, so this may not be necessary for the future.
I think Dr. Moosvi was a wonderful instructor throughout the semester. If there was one criticism, it was that Dr. Moosvi did not necessarily have alot of support as it was a large number of students and for the level of detail and effort that Dr. Moosvi put in to each student, it would be nice if he had some extra TAs to help him out.
While the prof is not the one directly providing feedback, there could be more clarification on feedback from the TA. Some of the

Comments
milestone feedback was not as clear as it could've been and it sometimes took more thought and investigation to find what aspects of our work needed fixing
I'd like to see a way to get feedback on test scores, lab scores, etc. back faster (have more TAs, etc.).
Provide feedback in a more timely manner to allow students to implement the feedback much earlier.
No suggestions, but really appreciate how Dr. Moosvi was really susceptible to student feedback throughout the semester! He responded to all comments on learning logs and made sure that students felt heard.
This was not taught as a beginner–level course. Much of the content covered was extremely difficult for a beginner like me to data analytics and it was difficult to follow along at times. Often times the labs we had to complete were 10 times the difficulty of content learned in class.
Reorganized the schedule so that the project was showing what we learnt instead of learning on the project.
Course was great. I wish I knew my grades as soon as they were available though, but that is very minor.
Provide faster makring on the tests and assignments if possible.
I believe they did a superb and sufficient job. I believe they could structure some of the lessons around to have a better flow of learning, but overall they did a really great job.
I understand the advantages of using a platform such as Ed Discussion, but sometimes it is helpful to be able to email your professor directly.
Feedback on some of labs and learning logs was not available well more than month. Also, it does not looks like we will get feedback in time for about 2 labs before the final exam. I was told to come to office hours to get feedback. However, this is pointless as I can not ask a question in office hours without knowing (via feedback) what questions did I do wrong. Also it is not possible to attend office hours every day given other commitments (conflict with other courses, labs, assignments, mid–terms and tests) Even if the feedback was provided, it was brief and confusing, and it was impossible to seek clarification about the feedback from any of the teaching staff. Using Ed discussion the sole mean of communication resulted in many of my questions (posted on Ed discussion platform) going unanswered.   Having learning logs due every weekend was redundant, as there were several weeks (including two break weeks) where no new material was covered. Last lab on MS Excel, was really hard and the provided lecture recordings did not help with lab exercise at all.
I wish the course had been organized a little differently. For example, the break wasn't very useful to me because it was quite early in the term and we hadn't learned enough to really start on the visualizations for the project. I wish some of the labs had been assigned before certain milestones as well, so that we could have some practice with those skills and then apply them. Overall a great course though!
Once the labs are graded it might be beneficial to provide a walkthrough of what the answer should have been or even an answer key.
I would have liked more lecture material that covered basic topics, rather than watching videos outside of class.
Publish labs/project milestones sooner
I think Dr. Moosvi is a great instructor and I enjoyed his lectures and projects and his justifications for the way he did things. It was a difficult course for me but I think there was a lot of resources available to help.
Before the tests, I wish it was easy to know which lessons we are supposed to study, other than that, this is a really great class :)
I think the usage of the course content page was brilliant but confusing. Deviating from the standard course material delivery mode can have unforeseen side effects. For instance, I don't often keep track of which week of school we are currently at, resulting in me having to constantly search for the material in the course content rather than just knowing where to go. It would probably be beneficial to use the Canvas modules system as all students are familiar with it.
Guide us through labs and projects more – vague instructions were given

Please identify what you consider to be the strengths of this course.

Comments
Definitely the help in the land with coding and the visualizations
The course material is divided in such a way that learning new concepts was relatively easier as we constantly applied new concepts in our labs or milestones.

Comments

Using GitHub as version control for labs, weekly reflection and understanding checks.

Amazing instruction, the prof really cares about the students, and wants to do everything in his power to make everyone succeeds and get as much out of the course as possible.

This course was amazing. All the material we went through was presented extremally effectively and with great clarity. Plenty of extra resources were provided to help with gaps in my knowledge. The project was interesting, provided a way to showcase newly learnt skills, and most important of all, fun.

I think that motivation was hard during this course so I think that my strength was to continue doing the course work with little to no support.

Like I mentioned the professor was very accommodating and gave students lots of opportunities to learn and redo tests if the score was bad and gave generous extension time on labs if students had something come up.

In the end I learned a lot about computer science from this course

I really like how this course tried to adapt to being completely online, honestly, I really liked the format of this course this year and I hope that the more flexible online format can be somehow reintegrated once classes are in person. In particular, having tutorials on pandas and seaborn and allowing more interactive online experiences to learn things like how to use git and the terminal was really helpful and practical.

Mosvi

The blended learning was well incorporated into the class.

Lots of feedback was provided and the assignments were helpful in increasing my understanding of the content.

Firas was very kind, friendly and encouraging. The material will be useful in my future career.

THE PROFESSOR IS THE STRENGTH OF THIS COURSE. I have taken other data science courses and other computer science courses and non of them have made this material interesting.

I think the group project was a big strength of this course, it gave the opportunity to explore data analysis topics on my own, and bring my own ideas to life. Which greatly helped my learning. The learning logs were also a strength as they helped me reflect on my learning.

The TA's were extremely helpful.

The instructor was great. Very inspiring in terms of teaching approach and for me, very likable.

Nothing besides the profs passion for the subject.

Great professor – very understanding and passionate about the subject, good TAs and clear objectives during class.

Thought that his enthusiasm and his energy to teaching was very infectious and made it a very great learning environment

Lots of content to practice topics in preparation for tests

All. All components of the course contributed to an environment to allowed for everyone to learn, in my opinion

He really did well with explaining concepts as these were all new to me. As well as the progression of the course made it easier.

it is very hands on and liked the way the professor explained the materials

Learning methods. The lectures are good and followed by labs then tests to reinforce what we learn and get examples.

The course has a lot of flexibility, giving me a lot more room to learn on my own, provides great support from the TA and the professor himself.

Interesting material, usable skills.

Despite the large amount of materials in the course, the lectures and course handouts provided are very helpful. The weekly labs and logs, as well as how the tests were conducted, are also very good in terms of spacing the course throughout the semester.

I have the experiences of coding and git, so it makes me more flexible at the beginning of the course.

Lenient deadlines, helpful TA's, many sources, user accessible

– The autonomy
– You are forced to learn the information and no matter what you will learn in this course.
– Incremental step learning where nothing really felt overwhelming.

The teacher is extremely focused on the way he is teaching. The online material is very nicely organised and easy to use.

The professor responded to concerns in a fair and thoughtful way, he responded usually within a day. He had a great structure to the course and the expectations were clear.

the fact that it can be done remotely without feeling as though we are not learning to the same level as if it were taught in person.

This course is extremely interesting and the prof taught it in a very successful way through the online lectures and workload.

The content is basic and straightforward, but all very important.

– grading is extremely fair. Having open book and open web format really makes this course feel more manageable, especially for

Comments

students with no background in computer science (like myself). This format is also more realistic because you will have access to the internet to help with troubleshooting your code and getting ideas for code from other people. – It is really relevent material – The pace can be fast at times but it was really helpful to have recorded lectures – I was able to watch these when I felt ready to learn new material and this helped me not feel so overwhelmed with content.
I think this class is really useful no matter what faculty students are in.
Dr. Moosvi definitely did his best to help students and give proper feedback. He also did everything he could to improve student's grades by giving extra attempts at tests, and plenty of time to complete assignments.
all the jupyter notebook work and eda.
The course slides and material were very helpful
This was the best instructed course I have ever taken. There was complete transparency and clear expectations! He also provided everything you need to succeed, as long as you are willing to put in the effort to learn it. I wish more professors took his approach to teaching.
Lots of project based learning.
the structure made it easy to follow and every new section related to the previous
Good examples, excellent and interactive lectures, detailed instructions, problem support and troubleshooting.
I really appreciate Dr. Moosvi's transparency throughout the course, about grades and course requirements. He is kind about offering constructive criticism and makes expectations very clear. This was one of the most organized courses I have ever taken, which is a huge asset to the learning experience. Feedback and marks are returned in a really short timeframe, there are a ton of available resources to get additional information and tutorials, and class time is used effectively.
I learned a lot of practical skills in this course. Going forward, I'll be able to say in resumes and cover letters that I have experience with Python, Pandas, and GitHub. A lot of the skills I learned can also be applied to my other courses.
This course encourages students to apply knowledge rather than memorize concepts which is fantastic. Allowing us to use outside sources to supplement learning is also more realistic to how it'll be after uni.
–Understanding prof who is very invested in students –interesting course material –open ended group project
Course format is pretty good, overall I had a pretty fun time with this course
Really good instructor and meaningful material.
Watching the zoom lectures and open–book tests really helped me learn this course. The zoom lectures had small activities where everyone participated, like a small group poll to choose which answer is correct
This course achieved its objective in teaching students about data analysis. The course was extremely detailed and took the students from 0 to hero. Little to no prior knowledge is required in order to succeed in this course.
Quick and helpful help

Please provide suggestions on how this course might be improved.

Comments

Just going a bit slower at the start of the course and really conveying that this course isn't scary.
Labs were not lined up with the Project well.
In my opinion, the marks should have been released when available because sometimes the feedback did not indicate if I was going to lose marks and how many, so I found it more stressful waiting for the grades than if I had just received it right away. I also believe we should have been given individual marks for certain project milestones as a significant portion was individual work. I found many of the test questions were ambiguous (multiple correct answers, but only one was accepted).
If labs lined up with what we learnt in class it might be easier to complete the labs. Sometimes they fell out of sync which made it a little challenging.
A better support system for students. The reply to an issue shouldn't be "Oh that's weird". A better way to contact the prof would be nice. It felt like there was little instruction with the assignments and very little feed back or support from the professor. Also assigning assignments on the weekend seems quite confusing and announcing a quiz on a Friday afternoon after class with no announcement is rude to the students who want to somewhat relax on the weekends. Overall, I would not take the class again as there was alot of unneeded stress.
Nothing much. Maybe faster TA marking times on feedback before the bonus test window, but I understand they are also students with a busy workload so it is understandable.

Comments
As a student with zero experience in computer science this course was difficult at times. I felt that there was a disconnect from some of the assignments and the content that was taught in class.
Release grades as marked
Perhaps a reduction in learning logs as they seem to be not as useful as one would think? Maybe one every two weeks would be better although I did appreciate the weekly anxiety/stress check.
Less work, I can do it, but I have other classes.
Provide more resources for students to apply the skills obtained in the class.
No more learning logs, they just seemed to act as busy work and didn't increase my understanding for the amount of work they were.
Course material that fit the assessments would've been helpful. Also the timeline didn't make sense at times.
adjust the schedule of the project milestones so that they line up better with the content we're learning in class
Maybe fewer labs. I understand why each lab was important but it got a little frustrating having so many things due in one class. The other 4 courses I took also had things due on the same dates.
Some more guidance in the labs would have helped, often times I wasn't sure on how to do a simple task because I was unfamiliar with the programs being used.
This is my fifth year in university and I have never experienced such horrible anxiety and stress from a class before this one. This course is a new pre–requisite for the CPA program, so I had to take this course, and it is by NO means an introductory course. I lost sleep over this class because I genuinely feel like theres a chance I could fail this class, which has never happened to me before in my 5 years of university. Dr.Moosvi is obviously very intelligent and knows what he's talking about. However, his instructions are extremely poor, I had to attend every lab to get help because his lab instructions are not thorough at all. In his lectures, he goes at lightening speed without explanation which makes it impossible to keep up. In addition, whenever I would ask a question, instead of him helping me, he would give a response such as "That's not supposed to be that way. You've done something wrong", which is not helpful at all. I encourage anyone who reads this to take this class for themselves with Dr.Moosvi and see for themselves just how poor this class is taught.
Just a quicker turnaround with the lab and learning log marks.
Lectures that actually teach the introductory material instead of catering to students who already know the stuff and took it as an easy class. Consider students from other faculties who have no comp sci background.
Rearrange some of the topics so students can cover them and learn them properly before applying for grading purposes ; move the topic Excel for the beginning of classes instead of end of the term .
Not really what he is doing now is really great!
Many topics need to be self taught and lots is expected you know or that you will pick on quickly. Many times I went into assignments and had no idea where to go and the classes before that didn't prepare me.
Nothing I can think of
None
Having more than one project TA, or at least another TA to ask the project questions about.
More instruction on how to execute labs and milestones.
Quicker grading for earlier feedback (although it is no big deal really)
The course is pretty great and the professor is extremely kind and nice, while his teaching is pretty helpful and excited.
Possibly a better way to get in touch with specific TA's and the prof.
Nothing
Lectures could be slowed down, TA's could be a little more experienced or familiar with the material as sometimes when questions were asked they did not seem to know some things.
i think that instead of waiting to release grades in order to focus on feedback, both should be released at the same time.
I cannot think of an issue that really needs fixing. Course was enjoyable and the prof taught it in a great way
the structure and content of the course was really good.
The course is meant for beginners, but there is a very steep learning curve which can be difficult when you are juggling other classes.
Teaching a more basic understanding of python and excel would have been beneficial. It seemed as if we jumped straight in to difficult concepts, and it was difficult to complete assignments.
No excel push into more data analytics.
Reorganizing the schedule

Comments
–releasing grades as you have them, not just the feedback. (Minor thing and just my personal preference).
Make the assingments come before the milestones. I found that a lot of the time the Milestone on a topic would come before the assignment on it so I didn't have much of a chance to learn it yet.
The shortening and better structuring of the course syllabus may improve the course but overall, the course is great!
In addition to Ed Discussion, maybe using email as communication could be an additional asset to this course.
I wish we had time to learn more about other topics as well, such as SQL or Excel macros.
More detailed feedback on how to complete questions on labs and quizzes or maybe a review session every week to go over them.
I found that feedback was quite vague.
Any teacher that makes their students use gradescope and ed discussion should be permanently banned from teaching
Everyone is at such different levels at the beginning of the course so it can feel extremely difficult for those who are at the low end of this spectrum. I think they could provide more resources on the basic functions and such relating to python to get those who have absolutely no knowledge started.
While the tests were good, I wish it was easy to sort through the lecture slides. It was kind of hard trying to find the right lecture to do the test at.
I think weekly deliverables can be often overwhelming and time consuming. I understand the purpose of it but I believe the labs should occur less frequently.
vague instructions were given for labs and projects

Explanatory Note

Percent Favourable Rating

This is the percentage of respondents who rated the instructor a 4 or 5 (Agree or Strongly Agree).

Interpolated Median

The data collected for Student Evaluations of Teaching (SEoT) are ordinal in nature, with a natural order (from 1 to 5). While the mean may be used as a measure of central tendency for such data, it is not an appropriate or accurate representation of SEoT data (cf. Stark & Freishtat, 2014). The usual measure of central tendency for ordinal data is the median. As a result, we have been reporting the mean and the median for the last several years. After considerable thought and data modeling, we now believe that the interpolated median is the best representation of the data, since it takes the frequency distribution into account.

Consider the following example from 2015W, the two classes have identical mean (3.8). However, the instructor in class 2 received 77% favourable (4-5) ratings, compared to 53% for the instructor in class 1. The Interpolated median values of (3.7 and 4.2), much better reflects the distribution of the scores above and below their respective median. Furthermore, the interpolated median is better correlated with percent favourable rating; such that an interpolated median of 3.5 on a Likert scale of 1 to 5, corresponds to 50% favourable rating.

Frequency Distribution

Response for UMI	Class 1	Class 2
5 = Strongly agree	5	5
4 = Agree	3	5
3 = Neither agree nor disagree	6	0
2 = Disagree	1	2
1 = Strongly disagree	0	1
Mean	3.8	3.8
Median	4.0	4.0
Interpolated Median	3.7	4.2
Percent favourable rating	53%	77%

Dispersion Index

The dispersion Index is a measure of variability suitable for ordinal data (Rampichini, Grilli & Petrucci 2004). This dispersion index has values between zero and 1. A zero dispersion index indicates that all students in the section gave the same rating to the instructor. An index value of 1.0 is obtained when the class splits evenly between the two extreme values (Strongly Disagree & Strongly Agree), a very rare occurrence. In SEoT data at UBC, the index rarely exceeds 0.85, and mostly for evaluations not meeting the minimum recommended response rate.