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**Report Comments****Recommended Minimum Response Rates**

Class Size	Recommended Minimum Response Rates based on 80% confidence & $\pm 10\%$ 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%

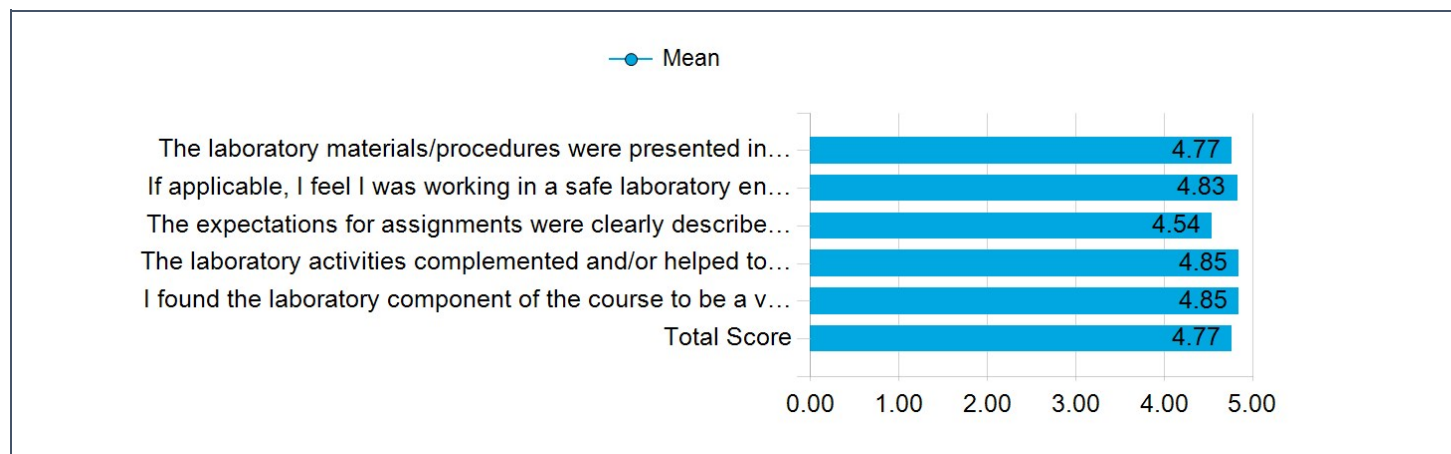
**Legend**N: Expected  
n: Responded**Frequency Distribution**SD: Strongly Disagree  
D: Disagree  
N: Neutral  
A: Agree  
SA: Strongly Agree  
N/A: Not applicable

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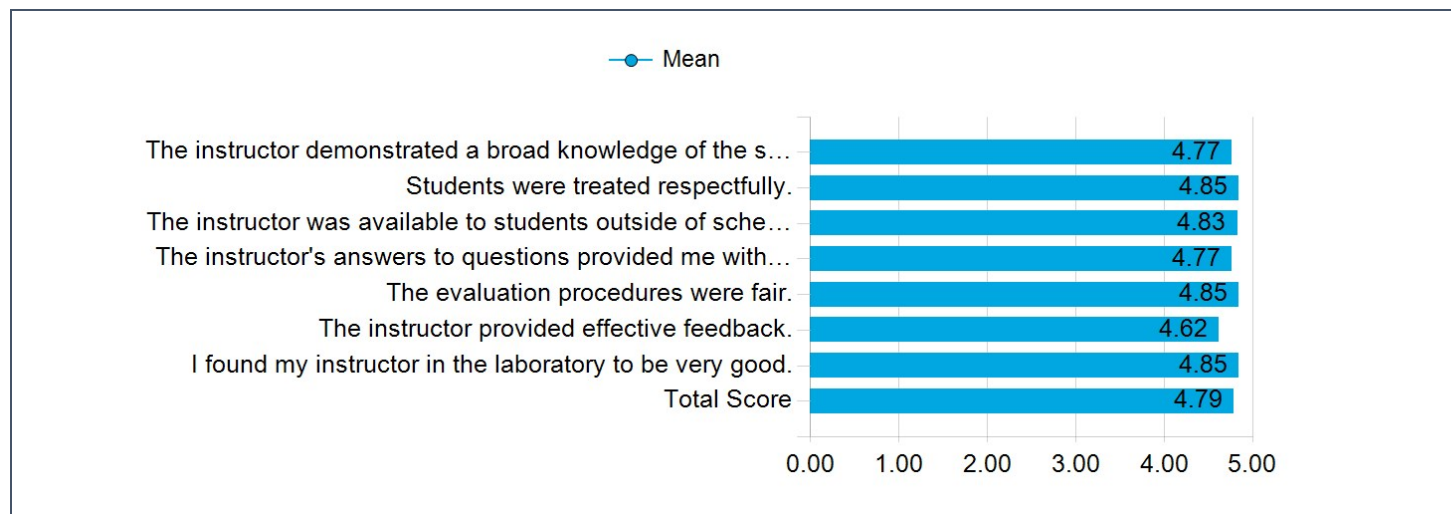
Creation Date: **Monday, June 3, 2019**

## Summary of Results

### Lab Questions

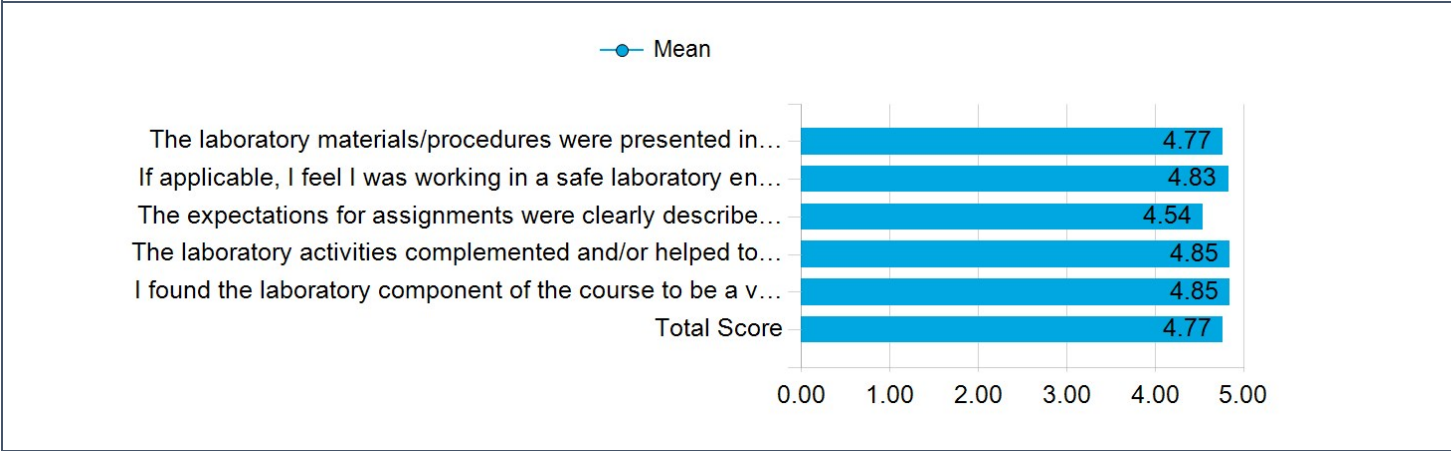


### Lab Instructor Questions



# Detailed Results

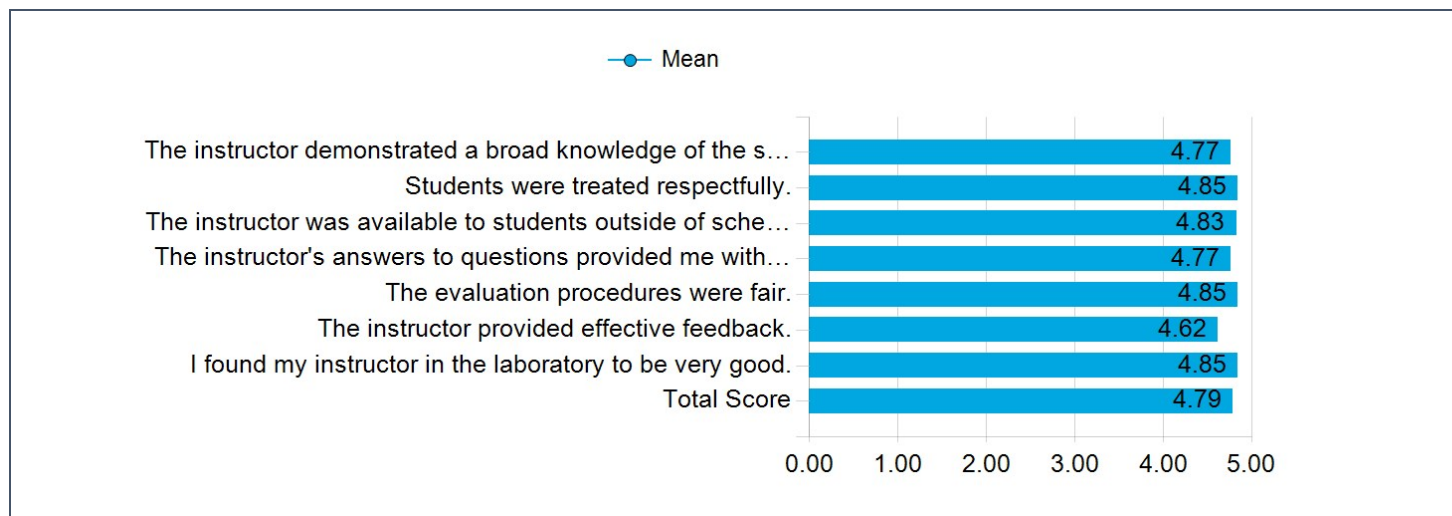
## Lab Questions



Question	N	n	SD	D	N	A	SA	N/A	IM	DI	Mean	STDEV
The laboratory materials/procedures were presented in a reasonable level of detail and clarity.	20	13	0	0	0	3	10	0	4.85	0.18	4.77	0.44
If applicable, I feel I was working in a safe laboratory environment.	20	13	0	0	0	2	10	1	4.90	0.14	4.83	0.39
The expectations for assignments were clearly described to students.	20	13	0	1	0	3	9	0	4.78	0.36	4.54	0.88
The laboratory activities complemented and/or helped to increase my understanding of the course material.	20	13	0	0	0	2	11	0	4.91	0.13	4.85	0.38
I found the laboratory component of the course to be a valuable educational experience.	20	13	0	0	0	2	11	0	4.91	0.13	4.85	0.38

Question	%Favourable
The laboratory materials/procedures were presented in a reasonable level of detail and clarity.	100.00%
If applicable, I feel I was working in a safe laboratory environment.	100.00%
The expectations for assignments were clearly described to students.	92.31%
The laboratory activities complemented and/or helped to increase my understanding of the course material.	100.00%
I found the laboratory component of the course to be a valuable educational experience.	100.00%

## Lab Instructor Questions



Question	N	n	SD	D	N	A	SA	N/A	IM	DI	Mean	STDEV
The instructor demonstrated a broad knowledge of the subject.	20	13	0	0	0	3	10	0	4.85	0.18	4.77	0.44
Students were treated respectfully.	20	13	0	0	0	2	11	0	4.91	0.13	4.85	0.38
The instructor was available to students outside of scheduled lab periods.	20	13	0	0	1	0	11	1	4.95	0.15	4.83	0.58
The instructor's answers to questions provided me with useful guidance.	20	13	0	0	1	1	11	0	4.91	0.20	4.77	0.60
The evaluation procedures were fair.	20	13	0	0	0	2	11	0	4.91	0.13	4.85	0.38
The instructor provided effective feedback.	20	13	0	0	1	3	9	0	4.78	0.28	4.62	0.65
I found my instructor in the laboratory to be very good.	20	13	0	0	0	2	11	0	4.91	0.13	4.85	0.38

Question	%Favourable
The instructor demonstrated a broad knowledge of the subject.	100.00%
Students were treated respectfully.	100.00%
The instructor was available to students outside of scheduled lab periods.	91.67%
The instructor's answers to questions provided me with useful guidance.	92.31%
The evaluation procedures were fair.	100.00%
The instructor provided effective feedback.	92.31%
I found my instructor in the laboratory to be very good.	100.00%

## Open ended feedback

### What were the strengths of the course?

Comments
great way of teaching. very clear and helpful
Friendly TA. Care about students.
Show how to do the exercise to us have the review section vey nice to answer the questions
Share experience and resources to us
Content was broken down into simple concepts which made it much easier to understand.
great proff and TA
The lab exercises helped me learn a lot more than the lectures.
Parsa truly knows the subject and he was able to help me whenever I had difficulties.
Parsa has to be one of the best TA's in the school.

### What were the weaknesses?

Comments
some assignments were tough, but don't think this is a weakness. More as a motivation to do better.
A 3 hour lecture once a week is quite difficult
N/A

### What did you most enjoy about it?

Comments
everything
Friendly TA. Care about students.
its a new language to learn
Parsa was able to help with all of the questions that I had
It was very fun to explore the concepts of COSC

# 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.

