



2022W1 UBC Individual Instructor Report for MTRL 472 101 - Welding and Joining of Materials (Mahyar Asadi)

Project Title: 2022W1 UBC Instructor SEI Surveys

Course Audience: 22
 Responses Received: 2
 Response Ratio: 9%

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%

Creation Date: Tuesday, January 3, 2023



University Module Questions

University Module Questions

Question	N	n	SD	D	N	A	SA	N/A	IM	DI
Throughout the term, the instructor explained course requirements so it was clear to me what I was expected to learn.	22	2	0	0	0	1	1	0	4.5	0.3
The instructor conducted this course in such a way that I was motivated to learn.	22	2	0	1	0	0	1	0	3.5	0.8
The instructor presented the course material in a way that I could understand.	22	2	0	0	1	0	1	0	4.0	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.	22	2	0	0	1	0	1	0	4.0	0.5
The instructor showed genuine interest in supporting my learning throughout this course.	22	2	0	0	0	1	1	0	4.5	0.3
Overall, I learned a great deal from this instructor.	22	2	0	0	1	0	1	0	4.0	0.5

Question	%Favourable
Throughout the term, the instructor explained course requirements so it was clear to me what I was expected to learn.	100%
The instructor conducted this course in such a way that I was motivated to learn.	50%
The instructor presented the course material in a way that I could understand.	50%
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.	50%
The instructor showed genuine interest in supporting my learning throughout this course.	100%
Overall, I learned a great deal from this instructor.	50%

Faculty Questions

Course Questions

Question	N	n	SD	D	N	A	SA	IM	DI
The assigned workload for the course was heavy.	22	2	1	0	0	1	0	2.5	0.8
The course material is rather advanced.	22	2	1	0	0	1	0	2.5	0.8
The material is relevant to my professional needs.	22	2	1	0	0	0	1	3.0	1.0
The course material is interesting.	22	2	0	0	1	0	1	4.0	0.5

Question	%Favourable
The assigned workload for the course was heavy.	50%
The course material is rather advanced.	50%
The material is relevant to my professional needs.	50%
The course material is interesting.	50%

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 Experience of Instruction (SEI) 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 SEI 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 course sections have identical mean (3.8). However, the instructor in section 2 received 77% favourable (4-5) ratings, compared to 53% for the instructor in section 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 University Module Item	Section 1	Section 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 respondents in the section rated their experience of instruction the same. An index value of 1.0 is obtained when the respondents are split evenly between the two extreme values (Strongly Disagree & Strongly Agree), a very rare occurrence. In SEI data at UBC, the index rarely exceeds 0.85, and mostly for evaluations not meeting the minimum recommended response rate.