

**Evaluation of Online USRI Surveys 2014-2015
Test Scoring & Questionnaire Services (TSQS)
September 2015**

In the Fall 2013, a pilot project was undertaken to offer Universal Student Ratings of Instruction (USRI) online for face-to-face classes. The pilot project included 49% of the instructor-sections for the Fall 2013 term. Sections in the pilot were approved to participate by the appropriate Dean or department Chair.

A summary of findings¹ was presented in January 2014 including an analysis of response rate levels and media differences between online vs. paper-and-pencil operation. Research literature reports that scores obtained from online questionnaires are comparable to those from paper-and-pencil questionnaires while response rates are appreciably lower. The report concluded that the research literature findings also held at the University of Alberta.

Subsequent to the GFC approval of modifications to GFC 111.3 (GFC 22 SEP 2014), IST implemented the USRIs online administration campus-wide. Workshops and one-on-one training sessions were provided to departmental contacts having responsibility for ordering the questionnaires. Some important changes to note:

- The window of administration for the online questionnaires is normally from the day after the withdrawal deadline until the last day of classes (7 to 9 days).
- A communication campaign focused on students was introduced using websites, Twitter, University of Alberta Facebook channels, and screens in public places around campus.
- USRI questionnaires were administered for courses with 4 to 9 students, using only open-ended questions.

During the academic year 2014/15 the USRI questionnaires were delivered online. The operation included:

- Announcements to instructors (a week before the evaluation started)
- Announcements to students (the day the USRI questionnaires open)
- Reminders to instructors
- Reminders to students

This report explores the response rate distribution and compares the results from paper-and-pencil with online USRI delivery.

Term	USRI's Delivery	Instructor-sections
Fall 2013	Paper-and-Pencil	2114
	Online (Pilot Project)	2030
Winter 2014	Paper-and-Pencil	3860
Fall 2014	Online	4618
Winter 2015	Online	4040

¹ <http://www.vpit.ualberta.ca/eusri/pdf/eUSRIFall2013Study.pdf>

The analysis compares the winter term of 2014 when USRIs were completed using paper-and-pencil to the winter term of 2015 when the USRIs and the process were fully online.

Winter 2014

In January 2014, the directive from the Provost's office was to conduct the USRI questionnaires using paper-and-pencil format. There were a total of 342 requisitions submitted for paper administration including 3860 instructor-sections. (Note there are instructor-sections for a single class where team-teaching is involved).

Courses delivered over the Web with an online USRI questionnaire were excluded from the study.

Winter 2015

As established with changes to the GFC policy 111.3, the USRI questionnaires were conducted online. The USRIs were available from the day after the withdrawal deadline until the last day of classes (April 2 to April 10 which included Easter break). Enrollment was updated daily during the administration window to exclude student withdrawals as soon as they were processed by the registrar office.

For Winter 2015, there were a total of 511 requisitions submitted for online administration, including 4040 instructor-sections. The increase in the number of requisitions is due to additional lab-sections being evaluated and the administration of the USRI for courses with 4 to 9 students (open-ended questions only) using the online system.

Courses that required a paper-and-pencil USRI questionnaire (i.e. Field studies with no internet access) were excluded from the study

In the following tables, the main questionnaire items of interest that were explored were:

1. Overall, the quality of the course content was excellent.
2. Overall, this instructor was excellent.

Overall comparisons of results from paper surveys versus online surveys are shown below. All the following tables show the percentile distributions of **response rates and median scores where the 50th percentile indicates an average** value and the 5th and 95th percentiles are given to show the typical range of values. Values appreciably below the 5th percentile could be considered anomalies needing individual investigation or explanation.

Response Rates

Term	N		Min	Max	Percentiles				
	Valid	Missing			5	25	50	75	95
Winter 2014	3860	0	3.3	100.0	35.5	64.3	78.0	90.0	100.0
Winter 2015	4040	0	6.3	100.0	30.8	50.6	62.1	76.2	95.0

Medians for Item: "Overall, this instructor was excellent"

Term	N		Min	Max	Percentiles				
	Valid	Missing			5	25	50	75	95
Winter 2014	3860	0	1.8	5.0	3.4	4.1	4.6	4.8	5.0
Winter 2015	4040	0	1.0	5.0	3.2	4.1	4.5	4.8	4.9

Medians for Item: "Overall, the quality of the course content was excellent"

Term	N		Min	Max	Percentiles				
	Valid	Missing			5	25	50	75	95
Winter 2014	3247	0	1.5	5.0	3.3	4.0	4.3	4.6	4.9
Winter 2015	3240	0	1.0	5.0	3.1	3.9	4.2	4.6	4.9

While there was a 15% drop in response rates for online compared to paper surveys in this term, the median scores for the items of interest were very similar. These results are consistent with the research literature.

Term	Response Rate	"Overall, this instructor was excellent" (Median 50 th percentile)	"Overall, the quality of the course content was excellent" (Median 50 th percentile)
Winter 2014 (Paper)	78.0%	4.6	4.3
Winter 2015 (Online)	62.1%	4.5	4.2

Further analysis looked at response rates by section type, faculty, and department.

Response Rates by Section Type

Winter 2014 (paper)

*Section Type	N		Min	Max	Percentiles				
	Valid	Missing			5	25	50	75	95
CLN	39	0	50.0	100.0	68.8	85.4	85.7	88.9	100.0
LAB	941	0	3.3	100.0	19.1	60.8	82.8	94.7	100.0
LBL	131	0	54.5	100.0	66.0	80.0	91.4	96.0	100.0
LCL	57	0	52.0	100.0	63.1	76.1	88.6	100.0	100.0
LEC	2398	0	5.6	100.0	43.4	63.6	75.0	85.7	100.0
SEM	294	0	5.6	100.0	37.0	70.0	89.7	100.0	100.0

*CLN=clinic, LAB=laboratory, LBL=lab/lecture where lab predominates, LCL=lecture/lab where lecture predominates, LEC=Lecture, SEM=seminar

Winter 2015 (online)

*Section Type	N		Min	Max	Percentiles				
	Valid	Missing			5	25	50	75	95
CLN	47	0	14.3	97.5	27.8	90.5	90.5	97.5	97.5
LAB	1093	0	9.3	100.0	22.8	41.4	53.8	68.4	96.5
LBL	122	0	30.0	100.0	50.0	60.0	72.1	88.7	99.3
LCL	59	0	30.8	100.0	39.3	50.0	62.5	75.0	84.2
LEC	2330	0	14.3	100.0	40.1	54.5	64.4	76.9	91.7
SEM	389	0	6.3	100.0	19.9	45.5	61.9	80.0	100.0

*CLN=clinic, LAB=laboratory, LBL=lab/lecture where lab predominates, LCL=lecture/lab where lecture predominates, LEC=Lecture, SEM=seminar

The number of lab sections evaluated increased from 941 for Winter 2014 (paper) to 1093 for Winter 2015 (online). The response rate for lab sections dropped from 82.8% in 2014 to 53.8% in 2015. The response rate for lecture sections dropped much less—from 75% in 2014 to 64.4% in 2015.

Term	Number of Instructor-sections	Response Rate	Response Rate
		LAB (Median 50 th percentile)	LEC (Median 50 th percentile)
Winter 2014 (Paper)	941	82.8%	75.0%
Winter 2015 (Online)	1093	53.8%	64.4%

Response Rates by Faculty (having at least 20 classes)

Faculty	N		Min	Max	Percentiles				
	Valid	Missing			5	25	50	75	95
Winter 2014 (paper)									
Agricultural, Life & Env	191	0	5.6	100.0	42.8	66.7	78.6	91.7	100.0
Arts	873	0	16.7	100.0	45.5	64.6	75.8	87.7	100.0
Augustana	160	0	47.4	100.0	56.6	71.6	83.3	92.7	100.0
Campus Saint-Jean	78	0	45.8	100.0	53.7	68.4	78.2	88.1	95.2
Education	207	0	28.9	100.0	60.6	75.0	85.0	92.9	100.0
Engineering	534	0	4.2	100.0	18.6	52.4	67.4	81.3	100.0
Law	81	0	17.2	100.0	50.0	65.5	78.0	85.7	95.9
Medicine & Dentistry	153	0	44.7	100.0	63.3	72.7	83.3	89.2	100.0
Nursing	103	0	8.0	100.0	37.2	84.6	92.9	100.0	100.0
Pharmacy	76	0	25.0	100.0	33.1	67.5	74.8	81.7	100.0
Physical Education & Rec	143	0	52.9	100.0	61.6	75.0	85.0	93.9	100.0
Public Health	42	0	30.0	100.0	40.0	63.4	80.6	90.2	100.0
Rehabilitation Medicine	74	0	33.3	100.0	41.5	84.7	95.4	100.0	100.0
School of Business	200	0	24.2	100.0	35.0	58.7	75.0	86.4	100.0
Science	916	0	3.3	100.0	25.7	61.1	80.0	92.0	100.0

Faculty	N		Min	Max	Percentiles				
	Valid	Missing			5	25	50	75	95
Winter 2015 (Online)									
Agricultural, Life & Env	208	0	39.1	100.0	48.1	64.2	70.0	80.3	97.9
Arts	861	0	14.3	100.0	41.2	60.0	70.0	81.8	93.9
Augustana	168	0	33.3	100.0	39.4	51.5	60.8	69.1	84.4
Campus Saint-Jean	85	0	27.3	91.7	33.9	53.9	62.1	71.4	83.3
Education	215	0	28.2	100.0	39.4	54.5	69.6	81.8	93.3
Engineering	663	0	11.1	100.0	27.3	41.2	50.0	58.3	93.2
Law	80	0	25.0	92.3	33.7	54.1	62.3	71.6	89.3
Medicine & Dentistry	150	0	37.9	100.0	53.0	55.1	70.9	90.5	100.0
Nursing	181	0	6.3	100.0	14.4	34.5	60.9	85.2	100.0
Pharmacy	20	0	15.9	100.0	15.9	27.4	40.0	56.3	99.5
Physical Education & Rec	123	0	31.8	82.9	38.8	51.9	60.0	66.7	76.2
Public Health	42	0	11.1	100.0	36.3	72.6	77.8	90.0	92.8
Rehabilitation Medicine	87	0	38.9	100.0	49.7	57.3	66.7	75.0	91.7
School of Business	202	0	15.2	100.0	41.4	55.0	62.7	71.3	81.3
Science	909	0	9.3	100.0	25.0	48.4	60.0	73.7	94.4

Response Rates by Department Winter 2014 (having more than 40 classes)

Department Winter 2014 (paper)	N		Min	Max	Percentiles				
	Valid	Missing			5	25	50	75	95
Accounting, Operations	53	0	26.4	100.0	28.6	52.3	65.8	78.2	97.1
Agricultural, Food & Nut	91	0	31.0	100.0	49.0	68.4	78.6	92.3	100.0
Art and Design	74	0	42.1	100.0	55.3	75.0	87.6	93.8	100.0
AU Social Sciences	66	0	47.4	100.0	54.5	68.8	77.7	89.4	100.0
Biological Sciences	271	0	13.2	100.0	24.5	72.2	85.0	94.7	100.0
Campus Saint-Jean	78	0	45.8	100.0	53.7	68.4	78.2	88.1	95.2
Chemical & Materials Eng	152	0	4.2	100.0	17.9	49.7	64.1	77.6	94.7
Civil & Environmental Eng	64	0	36.7	100.0	46.3	65.2	77.1	86.1	100.0
Computing Science	46	0	28.4	92.9	35.2	52.6	62.8	69.0	92.9
Dentistry & Dental Hygiene	54	0	50.0	100.0	66.1	83.2	85.7	88.6	97.6
Drama	47	0	50.0	100.0	58.3	83.3	92.3	100.0	100.0
Earth & Atmospheric Sci	147	0	14.8	100.0	40.0	67.7	87.5	96.7	100.0
Economics	59	0	24.3	90.0	30.8	42.9	58.1	67.3	82.1
Electrical & Computer Eng	245	0	5.0	100.0	15.9	44.7	69.6	84.0	100.0
Elementary Education	63	0	32.1	100.0	59.4	73.5	83.9	90.0	100.0
English & Film Studies	156	0	43.6	100.0	51.7	68.1	76.8	86.4	94.5
Faculty of Law	81	0	17.2	100.0	50.0	65.5	78.0	85.7	95.9
Faculty of Nursing	102	0	8.0	100.0	37.2	84.6	92.9	100.0	100.0
History and Classics	68	0	47.1	100.0	50.6	60.0	66.4	81.8	100.0
Marketing, Business Eco	54	0	37.7	100.0	42.1	56.5	75.3	84.1	100.0
Mathematical & Statistical	211	0	3.3	100.0	17.4	41.9	57.1	75.0	92.5
Mechanical Engineering	71	0	37.5	90.9	39.3	52.4	64.4	70.4	83.6
Modern Languages	106	0	53.8	100.0	59.6	76.1	82.8	91.7	100.0
Pharmacy	76	0	25.0	100.0	33.1	67.5	74.8	81.7	100.0
Physical Education & Rec	144	0	52.9	100.0	61.6	74.2	84.9	93.8	100.0
Physics	143	0	16.1	100.0	40.4	77.8	86.4	95.7	100.0
Political Science	68	0	33.3	100.0	36.6	60.2	69.8	76.9	92.2
Psychology	55	0	31.1	100.0	41.5	64.3	75.0	82.4	94.3
Renewable Resources	54	0	8.0	100.0	36.0	63.3	73.2	86.2	100.0
Secondary Education	41	0	52.9	100.0	57.4	83.4	91.7	95.0	100.0
Sociology	41	0	42.9	100.0	45.6	61.4	66.7	75.0	90.9
Strategic Management & Org	48	0	39.4	100.0	48.4	69.6	82.5	91.9	100.0

Response Rates by Department Winter 2015 (having more than 40 classes)

Department	N		Min	Max	Percentiles				
	Valid	Missing			5	25	50	75	95
Winter 2015 (online)									
Accounting, Operations	55	0	27.9	81.3	34.1	53.8	60.0	66.2	80.3
Agricultural, Food & Nut	101	0	45.5	100.0	50.3	65.2	71.4	81.1	100.0
Art and Design	79	0	40.0	100.0	50.0	63.6	75.0	86.7	93.3
AU Social Sciences	88	0	33.3	100.0	43.6	52.4	59.3	68.8	81.0
Biological Sciences	244	0	30.0	100.0	36.7	56.0	77.8	90.9	100.0
Campus Saint-Jean	85	0	27.3	91.7	33.9	53.9	62.1	71.4	83.3
Chemical & Materials Eng	142	0	12.5	100.0	21.4	41.1	52.8	65.7	100.0
Civil & Environmental Eng	162	0	14.3	91.7	22.8	36.6	42.7	53.2	81.4
Computing Science	45	0	35.4	100.0	37.6	52.0	58.3	68.5	96.5
Dentistry & Dental Hyg	64	0	40.0	97.5	55.6	73.8	90.5	97.5	97.5
Drama	51	0	30.0	100.0	52.6	66.7	77.8	91.7	100.0
Earth & Atmospheric Sci	143	0	18.2	87.5	27.3	43.6	56.4	63.2	78.7
Economics	59	0	28.8	100.0	31.6	54.0	60.3	70.0	82.9
Electrical & Computer Eng	286	0	11.1	100.0	30.9	41.7	50.0	57.1	83.3
Elementary Education	49	0	39.4	92.9	42.6	53.9	66.7	77.7	89.4
English & Film Studies	153	0	31.4	100.0	47.6	64.6	77.1	86.9	95.2
Faculty of Law	80	0	25.0	92.3	33.7	54.1	62.3	71.6	89.3
Faculty of Nursing	110	0	6.3	100.0	12.5	22.4	43.8	66.7	100.0
Health Sciences Educ.	71	0	36.4	100.0	40.8	61.7	70.0	100.0	100.0
History and Classics	63	0	30.8	100.0	42.9	54.7	63.0	70.0	83.9
Marketing, Business Econ	52	0	41.2	92.3	44.7	52.8	61.9	71.4	87.0
Mathematical & Statistical	206	0	14.8	92.9	36.5	48.3	57.5	67.7	84.7
Mechanical Engineering	71	0	41.9	100.0	42.0	50.0	55.2	62.9	89.5
Modern Languages	110	0	43.8	100.0	56.6	69.2	78.6	86.0	97.8
Physical Education & Rec	124	0	31.8	82.9	38.8	51.9	60.0	66.7	76.2
Physics	122	0	25.0	87.5	36.6	50.0	60.0	69.6	80.7
Political Science	74	0	21.6	81.0	22.2	41.2	54.2	64.3	80.0
Psychology	55	0	37.1	90.0	37.5	56.6	64.1	71.1	83.0
Renewable Resources	63	0	44.4	100.0	46.3	60.0	66.7	75.6	100.0
School of Public Health	42	0	11.1	100.0	36.3	72.6	77.8	90.0	92.8
Secondary Education	43	0	30.7	100.0	36.3	50.0	65.9	80.8	95.0
Sociology	46	0	31.6	87.3	52.6	60.0	65.6	73.0	84.9
Strategic Management & Org	49	0	47.2	100.0	50.0	62.5	70.8	78.9	86.5

The online surveys for Winter 2015 classes were matched with Winter 2014 classes involving the same instructor and course title and, wherever possible, the same section identification.

Winter 2014 Response Rates for Faculties having at least 20 matching sections

Faculty	N		Min	Max	Percentiles				
	Valid	Missing			5	25	50	75	95
Agricultural, Life & Env	87	0	8.3	100.0	42.5	62.8	72.0	89.7	100.0
Arts	258	0	24.3	100.0	41.2	64.7	76.2	89.0	100.0
Augustana	39	0	50.0	100.0	52.7	66.7	76.9	88.6	100.0
Campus Saint-Jean	36	0	32.1	100.0	43.8	62.2	75.8	85.4	95.8
Education	42	0	15.2	100.0	29.4	70.4	81.0	86.8	100.0
Engineering	194	0	5.0	100.0	16.5	54.0	67.7	80.1	100.0
Law	48	0	17.2	100.0	37.2	68.0	79.6	86.4	94.6
Medicine & Dentistry	79	0	32.0	100.0	44.7	68.6	83.3	87.8	97.6
Nursing	48	0	8.6	100.0	39.2	51.6	69.9	94.5	100.0
Physical Education & Rec	42	0	52.9	100.0	55.5	66.1	82.7	91.5	100.0
Rehabilitation Medicine	24	0	17.6	100.0	18.8	58.3	86.1	100.0	100.0
School of Business	113	0	26.4	100.0	31.3	57.5	70.4	81.1	92.4
Science	314	0	9.3	100.0	33.3	65.2	80.9	92.9	100.0

Winter 2015 Response Rates for Faculties having at least 20 matching sections

Faculty	N		Min	Max	Percentiles				
	Valid	Missing			5	25	50	75	95
Agricultural, Life & Env	87	0	39.1	100.0	50.0	63.8	69.8	81.0	92.1
Arts	258	0	14.3	100.0	44.9	61.2	72.5	84.2	100.0
Augustana	39	0	33.3	86.4	37.3	50.0	60.5	66.7	84.6
Campus Saint-Jean	36	0	27.3	86.7	32.4	54.8	61.1	71.3	84.4
Education	42	0	30.7	100.0	42.9	55.5	68.5	83.7	99.1
Engineering	194	0	23.6	100.0	28.6	42.3	50.0	57.1	82.2
Law	48	0	33.3	92.3	41.2	53.0	62.2	72.5	90.0
Medicine & Dentistry	79	0	37.9	100.0	52.1	60.0	76.2	90.5	97.5
Nursing	48	0	14.3	100.0	15.9	28.8	53.3	70.6	100.0
Physical Education & Rec	42	0	35.7	82.9	41.7	51.7	61.3	66.7	76.1
Rehabilitation Medicine	24	0	50.0	91.7	50.4	60.1	72.2	80.8	91.7
School of Business	113	0	25.0	100.0	42.0	56.1	62.3	70.8	81.3
Science	314	0	18.2	100.0	37.8	53.1	64.2	79.0	94.7

Note that, in the tables below, a negative value means that the median dropped from 2014 to 2015. A positive value indicates that the median increased in winter 2015.

Median Differences (Winter 2015 minus Winter 2014) from Faculties having at least 20 matched sections ^a

Faculty	N		Min	Max	Percentiles				
	Valid	Missing			5	25	50	75	95
Agricultural, Life & Env	87	0	-1.3	1.3	-.8	-.2	-.1	.1	.6
Arts	258	0	-1.9	1.5	-.7	-.3	.0	.1	.6
Augustana	39	0	-.7	.5	-.7	-.2	.0	.1	.5
Campus Saint-Jean	36	0	-.9	1.0	-.8	-.1	.1	.2	.9
Education	42	0	-1.3	1.5	-.7	-.3	.1	.4	.9
Engineering	194	0	-1.2	1.8	-.9	-.3	.0	.2	.8
Law	48	0	-1.6	1.7	-1.1	-.1	.1	.3	.7
Medicine & Dentistry	79	0	-1.0	1.0	-.6	-.1	.0	.3	.8
Nursing	48	0	-2.0	.8	-1.4	-.4	.0	.1	.6
Physical Education & Rec	42	0	-1.6	.9	-1.0	-.2	.1	.4	.7
Rehabilitation Medicine	24	0	-.9	1.4	-.8	-.4	-.1	.1	1.1
School of Business	113	0	-1.2	1.1	-.7	-.3	-.1	.1	.8
Science	314	0	-2.3	1.1	-.8	-.2	.0	.1	.5

a. For item: Overall, this instructor was excellent

Median Differences (Winter 2015 minus Winter 2014) from Faculties having at least 20 matched sections ^a

Faculty	N		Min	Max	Percentiles				
	Valid	Missing			5	25	50	75	95
Agricultural, Life & Env	59	0	-.9	1.5	-.7	-.2	-.1	.2	1.0
Arts	255	0	-1.6	1.4	-.8	-.2	.0	.2	.7
Augustana	37	0	-1.1	.9	-.8	-.2	.0	.3	.7
Campus Saint-Jean	36	0	-.8	1.3	-.8	-.1	.1	.4	1.0
Education	42	0	-1.8	1.5	-1.3	-.5	.2	.4	1.1
Engineering	152	0	-1.0	1.7	-.8	-.2	.0	.3	.8
Law	39	0	-1.7	1.3	-1.5	-.1	.0	.4	.7
Medicine & Dentistry	28	0	-.9	.7	-.8	-.2	.1	.4	.7
Nursing	46	0	-1.6	.9	-1.5	-.4	.0	.3	.7
Physical Education & Rec	39	0	-.7	.8	-.5	-.3	.0	.2	.7
Rehabilitation Medicine	22	0	-.8	.9	-.8	-.5	-.2	.0	.9
School of Business	110	0	-1.3	1.0	-.7	-.3	.0	.3	.7
Science	248	0	-1.6	.9	-.7	-.3	-.1	.2	.5

a. For item: Overall, the quality of the course content was excellent

Median Differences (Winter 2015 minus Winter 2014) from Departments having at least 20 matched sections^a

Department	N		Min	Max	Percentiles			
	Valid	Missing			5	50	75	95
Accounting, Operations and Information Systems	33	0	-.5	1.1	-.4	.0	.4	.9
Agricultural, Food & Nutritional Science	44	0	-.9	.8	-.7	.0	.1	.7
Art and Design	28	0	-.9	1.5	-.9	-.1	.1	1.1
AU Social Sciences	26	0	-.7	.5	-.7	.0	.1	.5
Biological Sciences	99	0	-1.7	.7	-.6	.0	.1	.4
Campus Saint-Jean	36	0	-.9	1.0	-.8	.1	.2	.9
Chemical and Materials Engineering	43	0	-1.2	1.8	-.9	.0	.2	1.1
Civil and Environmental Engineering	33	0	-1.0	.6	-1.0	.0	.2	.6
Dentistry & Dental Hygiene	41	0	-.8	.9	-.5	.1	.5	.8
Earth & Atmospheric Sciences	61	0	-2.3	1.0	-.8	.0	.3	.6
Economics	27	0	-.8	.6	-.7	-.1	.2	.5
Electrical and Computer Engineering	105	0	-1.0	1.4	-.8	.0	.2	.8
Elementary Education	20	0	-.7	.9	-.7	-.1	.3	.9
English & Film Studies	38	0	-.9	1.2	-.7	.0	.2	.7
Faculty of Law	48	0	-1.6	1.7	-1.1	.1	.3	.7
Faculty of Nursing	27	0	-2.0	.6	-1.6	-.1	.0	.4
Finance and Statistical Analysis	22	0	-.5	.8	-.4	-.1	.1	.7
Health Sciences Educ. & Res.	21	0	-1.8	.8	-1.7	.1	.5	.8
Marketing, Business Economics & Law	27	0	-1.2	.7	-1.0	.0	.1	.6
Mathematical & Statistical Sciences	58	0	-1.2	1.1	-1.0	-.1	.1	.6
Modern Languages and Cultural Studies	30	0	-1.9	.2	-1.4	.0	.1	.2
Physical Education & Recreation	42	0	-1.6	.9	-1.0	.1	.4	.7
Physics	35	0	-.8	.6	-.7	.0	.2	.5
Renewable Resources	24	0	-1.1	.9	-1.0	.0	.2	.8
Strategic Management & Organization	25	0	-.8	1.1	-.8	.0	.1	1.0

a. For item: Overall, this instructor was excellent

Median Differences (Winter 2015 minus Winter 2014) from Departments having at least 20 matched sections^a

Department	N		Min	Max	Percentiles				
	Valid	Missing			5	25	50	75	95
Accounting, Operations and Information Systems	31	.0	-7	1.0	-6	-1	.1	.4	.9
Agricultural, Food & Nutritional Science	30	.0	-9	1.0	-8	-2	.0	.2	.7
Art and Design	28	.0	-1.6	1.4	-1.3	-3	.0	.2	1.3
AU Social Sciences	24	.0	-1.1	.9	-1.0	-2	.0	.3	.9
Biological Sciences	92	.0	-1.6	.6	-8	-4	-1	.1	.3
Campus Saint-Jean	36	.0	-8	1.3	-8	-1	.1	.4	1.0
Chemical and Materials Engineering	39	.0	-1.0	1.7	-8	-3	-1	.2	.8
Civil and Environmental Engineering	33	.0	-8	.9	-8	-2	.0	.3	.7
Earth & Atmospheric Sciences	33	.0	-1.0	.8	-5	-2	.0	.3	.7
Economics	27	.0	-9	.4	-8	-3	.0	.2	.4
Electrical and Computer Engineering	71	.0	-8	1.0	-7	-3	.1	.3	.8
Elementary Education	20	.0	-1.8	1.5	-1.8	-6	-1	.2	1.4
English & Film Studies	38	.0	-1.1	1.3	-8	-2	.1	.3	.7
Faculty of Law	39	.0	-1.7	1.3	-1.5	-1	.0	.4	.7
Faculty of Nursing	46	.0	-1.6	.9	-1.5	-4	.0	.3	.7
Finance and Statistical Analysis	21	.0	-7	.9	-6	-2	-1	.1	.9
Marketing, Business Economics & Law	28	.0	-1.3	.6	-1.1	-4	-1	.1	.6
Mathematical & Statistical Sciences	58	.0	-1.1	.9	-8	-3	.0	.3	.5
Modern Languages and Cultural Studies	30	.0	-1.4	.7	-1.1	-2	.0	.1	.6
Physical Education & Recreation	39	.0	-7	.8	-5	-3	.0	.2	.7
Physics	20	.0	-6	.6	-6	-4	-1	.1	.6
Strategic Management & Organization	25	.0	-5	.7	-5	-3	-1	.3	.7

a. For item: Overall, the quality of the course content was excellent

The following tables explore the relationship between online response rates and differences in medians from the two terms. Earlier analysis did not find a (product-moment) correlation between online response rates and the median differences. This is confirmed in these tables where response rates have been categorized as shown.

Median Differences (Winter 2015 minus Winter 2014) by Response Rate for matched sections ^a

Winter 2015 Response rate	N		Min	Max	Percentiles				
	Valid	Missing			5	25	50	75	95
<41 %	100.0	.0	-2.3	1.7	-.9	-.4	.0	.2	.6
41 to 50%	183.0	.0	-1.2	1.5	-.9	-.2	.0	.2	.8
50.1 to 60%	268.0	.0	-2.0	1.4	-.7	-.3	.0	.2	.7
60.1 to 70%	312.0	.0	-1.9	1.1	-.6	-.2	.0	.2	.7
>70%	487.0	.0	-1.8	1.8	-.7	-.2	.0	.1	.6

a. For item: Overall, this instructor was excellent

Median Differences (Winter 2015 minus Winter 2014) by Response Rate for matched sections ^a

Winter 2015 Response rate	N		Min	Max	Percentiles				
	Valid	Missing			5	25	50	75	95
<41 %	96	0	-1.6	1.3	-.9	-.4	.0	.3	.8
41 to 50%	151	0	-1.0	1.7	-.7	-.3	.0	.2	.6
50.1 to 60%	228	0	-1.8	1.1	-.7	-.3	.0	.3	.7
60.1 to 70%	268	0	-1.4	1.3	-.6	-.2	.0	.3	.7
>70%	395	0	-1.7	1.5	-.8	-.2	.0	.2	.7

a. For item: Overall, the quality of the course content was excellent