

NSSE McMaster University 2015

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NSSE 2015
Administration Summary
McMaster University

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Administration Summary

This report provides an overview of your NSSE administration, including details about your population and sample, response rates, representativeness of your respondents, survey customization choices, and recruitment message schedule. This information can be useful for assessing data quality and planning future NSSE administrations.

Population and Respondents

The table at right reports your institution's population sizes, how many students were sampled (whether census-administered or randomly selected), and how many completed the survey.

Survey completions	<i>First-year</i>	<i>Senior</i>
Submitted population	5,938	6,150
Adjusted population ^a	5,922	6,121
Survey sample ^b	5,922	6,121
Total respondents ^b	1,513	1,874
Full completions ^c	1,208	1,562
Partial completions	305	312

a. Adjusted for ineligible students and those for whom survey requests were returned as undeliverable.

b. Targeted, experimental, and locally administered oversamples were not included.

c. Completed at least one demographic question after the core engagement items on the survey.

Response Rate and Sampling Error^a

The table below summarizes response rates and sampling errors for your institution and comparison groups. For more information see NSSE's Response Rate FAQ: nsse.indiana.edu/pdf/Resp_Rate_FAQ.pdf

	<i>First-year</i>				<i>Senior</i>			
	McMaster	Ontario	Canada	Carnegie	McMaster	Ontario	Canada	Carnegie
Response rate	26%	24%	31%	19%	31%	33%	36%	20%
Sampling error ^b	+/- 2.2%	+/- 2.1%	+/- 1.3%	+/- 0.7%	+/- 1.9%	+/- 2.0%	+/- 1.4%	+/- 0.6%

a. Comparison group response rate and sampling error were computed at the student level (i.e., they are not institution averages).

b. Also called "margin of error," sampling error is an estimate of the amount the true score on a given item could differ from the estimate based on a sample. For example, if the sampling error is +/- 5.0% and 40% of your students reply "Very often" to a particular item, then the true population value is most likely between 35% and 45%.

Representativeness and Weighting

The first table at right reports on variables submitted in your population file. Respondent and population percentages are listed side by side as a convenience to see how well the characteristics of your respondents reflect your first-year and senior populations. For more respondent characteristics, refer to your *Respondent Profile* report.

NSSE weights results by institution-reported sex and enrollment status so institutional estimates reflect the population with respect to these characteristics. The second table at right provides the respondent and population proportions used to calculate your 2015 weights. For more information, see nsse.indiana.edu/html/weighting

Representativeness

	<i>First-year</i>		<i>Senior</i>	
	Respondent %	Population %	Respondent %	Population %
Female	64	53	60	51
Full-time	95	94	83	77
First-time, first-year	88	88	N/A	N/A
Race/ethnicity ^a				
Am. Indian or Alaska Native	N/A	N/A	N/A	N/A
Asian	N/A	N/A	N/A	N/A
Black or African American	N/A	N/A	N/A	N/A
Hispanic or Latino	N/A	N/A	N/A	N/A
Native Hawaiian/Other Pac. Isl.	N/A	N/A	N/A	N/A
White	N/A	N/A	N/A	N/A
Other	N/A	N/A	N/A	N/A
Foreign or nonresident alien	N/A	N/A	N/A	N/A
Two or more races/ethnicities	N/A	N/A	N/A	N/A
Unknown	N/A	N/A	N/A	N/A

a. Based on the IPEDS categories (not available for Canadian institutions) submitted in the population file. Results not reported for institutions without full (at least 90%) race/ethnicity information in the population file.

Weighting

	<i>First-year</i>		<i>Senior</i>	
	Respondent %	Population %	Respondent %	Population %
Full-time, female	61	51	51	41
Full-time, male	34	44	33	36
Part-time, female	3	3	9	10
Part-time, male	2	3	7	13

Population File

Your institution provided a population file for survey administration and was afforded an opportunity to update it.

Population file options

Included "group" variables ^a	Yes
Identified an oversample ^b	No
Updated to identify ineligible students ^c	No
Identified students who completed BCSSE 2014 ^d	BCSSE not administered

- a. Institutions had the option to include additional variables in their population files for oversampling or for their own *post hoc* analyses. Up to five "group" variables were allowed; If formatting specifications were met, Group 1 can be used in the Report Builder–Institution Version.
- b. Institutions that did not survey all first-year and senior students (census) had the option to oversample a segment of their population. Oversamples may also be used to survey students in other class years.
- c. Institutions had the option to update their population files to identify students who did not return to campus in the spring or otherwise did not meet NSSE eligibility criteria.
- d. Institutions that participated in the Beginning College Survey of Student Engagement (BCSSE) can identify BCSSE survey respondents in their NSSE population file. This information is required to receive the longitudinal results in the *BCSSE-NSSE Combined Report*.

Survey Options

The options at right were available to customize the content of your NSSE survey and to collect complementary data from companion surveys.

Administration features

Sample type	Census
Recruitment method	Email
Incentive offered	Yes
Survey version	Canadian English
Institution logo used in survey	Yes

Additional question sets and companion surveys

Asked optional sexual orientation question	No
Topical module(s)	FY Experiences / Sr Transitions
Consortium	None
BCSSE 2014	No
FSSE 2015	No

Recruitment Messages

Students received up to five direct contacts. Your institution had the option to customize message content and timing.

Message schedule

	Date	Cumulative response rate	
		<i>First-year</i>	<i>Senior</i>
Invitation	02/10/2015	9%	9%
Reminder 1	02/24/2015	15%	17%
Reminder 2	03/04/2015	19%	23%
Reminder 3	03/10/2015	23%	26%
Final reminder	03/16/2015	26%	31%

Report Customization

Your institution had the option to customize the comparison groups used in reports. The group selected for the *Snapshot* comparisons is identified with an asterisk.

Comparison groups for NSSE core survey reports

Group 1	Ontario* (customized)
Group 2	Canada (customized)
Group 3	Carnegie (customized)

Comparison groups for additional question set report(s)

Topical Module: FY Experiences / Sr Transitions	FY Exp / Sr Transiti (customized)
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NSSE 2015

Frequencies and Statistical Comparisons

McMaster University

Please note: The layout of this file is optimized for printing and PDF creation, not on-screen viewing. When the Excel version is viewed on screen, some cells appear to contain truncated text or misplaced line breaks. This is due to differences in Excel between on-screen display and what appears in print or PDF.

NSSE 2015 Frequencies and Statistical Comparisons

About This Report

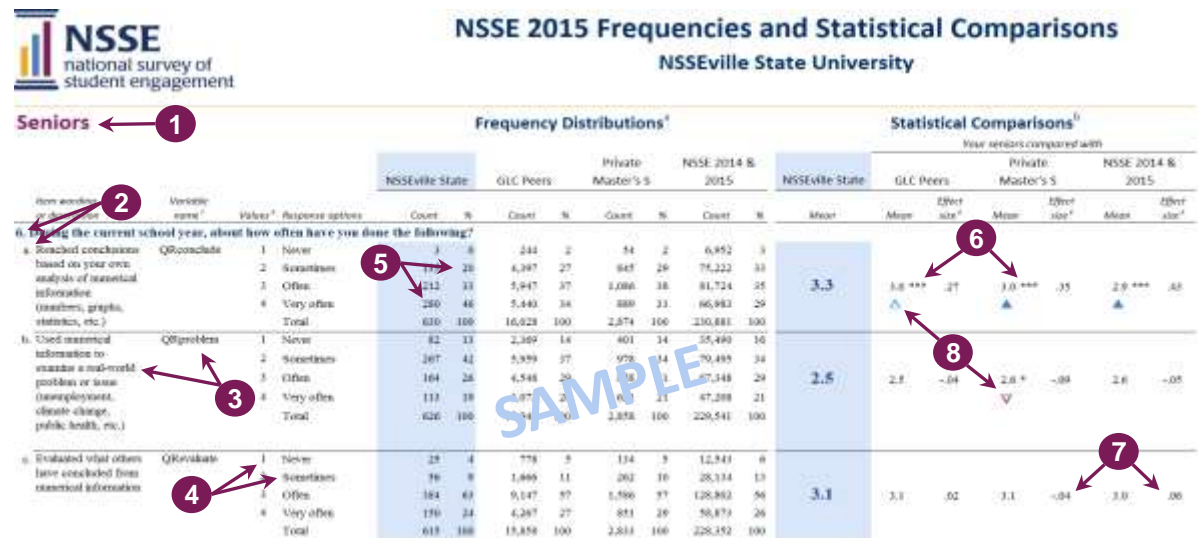
The *Frequencies and Statistical Comparisons* report presents item-by-item student responses and statistical comparisons that allow you to examine patterns of similarity and difference between your students and those at your comparison group institutions. The report uses information from all randomly selected or census-administered students. The display below highlights important details in the report to keep in mind when interpreting your results. For more information please visit our website (nsse.indiana.edu) or contact a member of the NSSE team.

1. **Class level:** As reported by your institution.
2. **Item numbers:** Numbering corresponds to the survey facsimile included in your *Institutional Report* and available on the NSSE website.
3. **Item wording and variable names:** Survey items are in the same order and wording as they appear on the instrument. Variable names are included for easy reference to your data file and codebook.

4. **Values and response options:** Values are used to calculate means. Response options are worded as they appear on the instrument.
5. **Count and column percentage (%):** The Count column contains the number of students who selected the corresponding response option. The column percentage is the weighted percentage of students selecting the corresponding response option.

Note: Column percentages and statistics are weighted by institution-reported sex and enrollment status. Comparison group statistics are also weighted by institutional size. Counts are unweighted and cannot be used to replicate column percentages. For details visit: nsse.indiana.edu/html/weighting.cfm

6. **Statistical comparisons:** Items with mean differences that are larger than would be expected by chance are noted with asterisks referring to three significance levels (* $p < .05$, ** $p < .01$, *** $p < .001$). Significance levels indicate the probability that an observed difference is due to chance. Statistical significance does not guarantee the result is substantive or important. Large sample sizes tend to generate more statistically significant results even though the magnitude of mean differences may be inconsequential. Consult effect sizes (see #7) to judge the practical meaning of differences. Unless otherwise noted, statistical comparisons are two-tailed independent t -tests. Exceptions are items 11 a-f which are compared using a z -test.



		Frequency Distributions ^a								Statistical Comparisons ^b					
		NSSEville State		GLC Peers		Private Master's S		NSSE 2014 & 2015		NSSEville State		Private Master's S		NSSE 2014 & 2015	
Item number	Variable name	Count	%	Count	%	Count	%	Count	%	Mean	Effect size ^c	Mean	Effect size ^c	Mean	Effect size ^c
6	During the current school year, about how often have you done the following?														
a	Reached conclusions based on your own analysis of statistical information (numbers, graphs, statistics, etc.)														
		3	8	244	27	54	26	6,952	33	3.3	0.8 ***	2.7	0.8 ***	2.9 ***	0.8
	1 Never														
	2 Sometimes	112	33	5,947	27	1,086	38	81,724	25						
	3 Often	280	46	5,440	34	889	33	66,983	29						
	4 Very often	610	100	16,028	100	2,074	100	230,881	100						
	Total														
b	Used statistical information to examine a real-world problem or issue (unemployment, climate change, public health, etc.)														
	1 Never	82	33	2,369	14	401	34	35,490	16	2.5	0.2	-0.4	0.8 *	-0.4	-0.5
	2 Sometimes	367	41	5,939	37	979	34	70,489	34						
	3 Often	164	28	4,548	29	1,111	31	67,348	29						
	4 Very often	113	39	1,077	21	1,111	21	47,288	21						
	Total	626	100	17,933	100	3,592	100	228,515	100						
c	Evaluated what others have concluded from statistical information														
	1 Never	25	4	778	9	134	9	12,943	6	3.1	0.2	0.1	-0.4	0.0	0.0
	2 Sometimes	76	9	1,466	11	262	10	28,134	13						
	3 Often	384	63	9,147	57	1,566	57	128,862	56						
	4 Very often	170	24	4,267	27	811	28	58,879	26						
	Total	615	100	15,658	100	2,513	100	228,828	100						

7. **Effect size:** Effect size indicates practical significance. An effect size of .2 is often considered small, .5 moderate, and .8 large. A positive effect size indicates that your institution's mean was greater than that of the comparison group, thus showing a favorable result for your institution. A negative effect size indicates your institution lags behind the comparison group, suggesting that the student behavior or institutional practice represented by the item may warrant attention. Effect sizes for independent t -tests use Cohen's d ; z -tests use Cohen's h . Cohen's d is calculated by dividing the mean difference by the pooled standard deviation. Cohen's h is calculated by taking the difference in the proportion of students who responded "Done or in progress" after the proportion has been transformed using a non-linear (arcsine) transformation. See: Cohen, J. (1988). *Statistical power analysis for the behavioral sciences (2nd edition)*. New York: Psychology Press.

8. **Key to symbols:**
 - ▲ Your students' average was significantly higher ($p < .05$) with an effect size at least .3 in magnitude.
 - △ Your students' average was significantly higher ($p < .05$) with an effect size less than .3 in magnitude.
 - ▽ Your students' average was significantly lower ($p < .05$) with an effect size less than .3 in magnitude.
 - ▼ Your students' average was significantly lower ($p < .05$) with an effect size at least .3 in magnitude.

Note: It is important to interpret the direction of differences relative to item wording and your institutional context.

NSSE 2015 Frequencies and Statistical Comparisons

McMaster University

First-Year Students

Frequency Distributions^a

Statistical Comparisons^b

Your first-year students compared with

Item wording or description	Variable name ^c	Values ^d Response options	Frequency Distributions ^a								Statistical Comparisons ^b						
			McMaster		Ontario		Canada		Carnegie		McMaster	Ontario	Canada	Carnegie			
			Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size ^e	Mean	Effect size ^e	Mean	Effect size ^e
1. During the current school year, about how often have you done the following?																	
a. Asked questions or contributed to course discussions in other ways	askquest	1 Never	157	11	154	10	394	10	640	4	2.5	2.6 **	-11	2.6 ***	-11	2.8 ***	-0.36
		2 Sometimes	722	47	667	43	1,779	43	6,242	39							
		3 Often	423	28	448	27	1,161	28	5,703	34							
		4 Very often	203	14	318	19	831	19	4,044	23							
		Total	1,505	100	1,587	100	4,165	100	16,629	100							
b. Prepared two or more drafts of a paper or assignment before turning it in	drafts	1 Never	417	29	365	24	1,013	25	3,036	19	2.2	2.3 ***	-13	2.3 *	-0.07	2.4 ***	-0.24
		2 Sometimes	546	36	570	36	1,530	37	5,919	36							
		3 Often	344	23	384	25	1,036	25	4,666	28							
		4 Very often	186	12	255	16	547	13	2,912	17							
		Total	1,493	100	1,574	100	4,126	100	16,533	100							
c. Come to class without completing readings or assignments	unpreparedr <i>(Reverse-coded version of unprepared created by NSSE.)</i>	1 Very often	179	13	174	12	317	9	1,164	7	2.6	2.7 **	-12	2.8 ***	-0.25	2.9 ***	-0.35
		2 Often	391	26	319	22	735	19	2,591	16							
		3 Sometimes	733	49	814	51	2,215	53	9,553	57							
		4 Never	180	12	262	16	848	19	3,123	19							
		Total	1,483	100	1,569	100	4,115	100	16,431	100							
d. Attended an art exhibit, play or other arts performance (dance, music, etc.)	attendant	1 Never	810	54	670	45	1,909	48	5,952	38	1.6	1.8 ***	-0.23	1.8 ***	-0.16	1.9 ***	-0.33
		2 Sometimes	491	33	562	36	1,354	33	6,506	39							
		3 Often	131	9	209	13	563	13	2,477	14							
		4 Very often	54	4	111	7	255	6	1,380	8							
		Total	1,486	100	1,552	100	4,081	100	16,315	100							
e. Asked another student to help you understand course material	CLaskhelp	1 Never	105	7	105	6	285	7	988	7	2.7	2.8	-0.02	2.7	.03	2.7 *	.06
		2 Sometimes	489	33	525	33	1,423	35	5,953	37							
		3 Often	546	37	568	37	1,454	36	5,801	35							
		4 Very often	339	23	354	23	915	22	3,470	21							
		Total	1,479	100	1,552	100	4,077	100	16,212	100							
f. Explained course material to one or more students	CLexplain	1 Never	46	3	45	3	140	4	494	3	2.9	2.9	-0.03	2.8 *	.07	2.8 ***	.10
		2 Sometimes	474	31	468	29	1,345	32	5,574	35							
		3 Often	579	39	635	41	1,636	40	6,522	40							
		4 Very often	374	26	394	26	934	23	3,540	22							
		Total	1,473	100	1,542	100	4,055	100	16,130	100							

*p<.05, **p<.01, ***p<.001 (2-tailed); Refer to p. 2 for key to triangle symbols.

NSSE 2015 Frequencies and Statistical Comparisons

McMaster University

First-Year Students

Frequency Distributions^a

Statistical Comparisons^b

Your first-year students compared with

Item wording or description	Variable name ^c	Values ^d	Response options	Frequency Distributions ^a								Statistical Comparisons ^b						
				McMaster		Ontario		Canada		Carnegie		McMaster	Ontario	Canada	Carnegie			
				Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size ^e	Mean	Effect size ^e	Mean	Effect size ^e
g. Prepared for exams by discussing or working through course material with other students	CLstudy	1	Never	159	11	174	11	472	12	1,722	11	2.7	2.8	-06	2.7	-01	2.7	.05
		2	Sometimes	479	32	453	29	1,222	30	5,521	34							
		3	Often	471	32	520	34	1,313	32	5,133	31							
		4	Very often	364	25	400	27	1,067	26	3,763	23							
		Total		1,473	100	1,547	100	4,074	100	16,139	100							
h. Worked with other students on course projects or assignments	CLproject	1	Never	84	6	120	7	302	8	982	7	2.8	2.9 **	-09	2.8	-03	2.7 ***	.14
		2	Sometimes	503	33	463	28	1,225	30	6,120	39							
		3	Often	525	36	505	34	1,356	33	5,641	34							
		4	Very often	356	24	456	31	1,175	29	3,263	20							
		Total		1,468	100	1,544	100	4,058	100	16,006	100							
i. Given a course presentation	present	1	Never	310	22	485	33	1,229	32	3,151	22	2.1	2.0 ***	.17	2.0 ***	.14	2.2 *	-06
		2	Sometimes	742	51	652	43	1,693	43	7,279	46							
		3	Often	265	18	259	16	670	16	3,727	22							
		4	Very often	131	9	135	8	436	9	1,672	10							
		Total		1,448	100	1,531	100	4,028	100	15,829	100							
2. During the current school year, about how often have you done the following?																		
a. Combined ideas from different courses when completing assignments	RIintegrate	1	Never	55	4	51	3	196	5	857	6	2.8	2.8	-07	2.8	.03	2.7 ***	.10
		2	Sometimes	518	36	510	34	1,429	36	5,617	37							
		3	Often	546	38	593	39	1,529	38	5,953	38							
		4	Very often	313	22	362	24	830	21	3,039	19							
		Total		1,432	100	1,516	100	3,984	100	15,466	100							
b. Connected your learning to societal problems or issues	RIsocietal	1	Never	116	9	124	9	367	10	1,097	8	2.6	2.6	.00	2.6	.05	2.6	.01
		2	Sometimes	526	37	572	37	1,527	39	5,762	38							
		3	Often	493	35	525	35	1,315	33	5,655	36							
		4	Very often	283	19	285	19	741	18	2,820	18							
		Total		1,418	100	1,506	100	3,950	100	15,334	100							
c. Included diverse perspectives (political, religious, racial/ethnic, gender, etc.) in course discussions or assignments	RIdiverse	1	Never	279	21	241	18	708	19	1,404	10	2.3	2.4 *	-08	2.4	-05	2.6 ***	-24
		2	Sometimes	528	37	591	39	1,508	39	5,939	39							
		3	Often	404	28	428	27	1,120	28	5,301	34							
		4	Very often	206	14	243	16	613	15	2,666	17							
		Total		1,417	100	1,503	100	3,949	100	15,310	100							

*p<.05, **p<.01, ***p<.001 (2-tailed); Refer to p. 2 for key to triangle symbols.

NSSE 2015 Frequencies and Statistical Comparisons

McMaster University

First-Year Students

Frequency Distributions^a

Statistical Comparisons^b

Your first-year students compared with

Item wording or description	Variable name ^c	Values ^d	Response options	Frequency Distributions ^a								Statistical Comparisons ^b						
				McMaster		Ontario		Canada		Carnegie		McMaster	Ontario	Canada	Carnegie			
				Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size ^e	Mean	Effect size ^e	Mean	Effect size ^e
d. Examined the strengths and weaknesses of your own views on a topic or issue	Rlownview	1	Never	123	9	100	7	300	8	766	5	2.7	2.7	-03	2.7	.00	2.8 ***	-0.14
		2	Sometimes	495	35	529	35	1,396	36	4,973	33							
		3	Often	541	38	608	40	1,532	39	6,483	42							
		4	Very often	252	18	267	18	702	17	3,024	20							
		Total		1,411	100	1,504	100	3,930	100	15,246	100							
e. Tried to better understand someone else's views by imagining how an issue looks from his or her perspective	Rlperspect	1	Never	72	5	89	7	211	6	515	4	2.8	2.8	.06	2.8	.05	2.9 *	-0.06
		2	Sometimes	427	31	462	31	1,247	32	4,492	30							
		3	Often	573	40	612	40	1,595	40	6,556	43							
		4	Very often	336	24	334	22	875	22	3,696	24							
		Total		1,408	100	1,497	100	3,928	100	15,259	100							
f. Learned something that changed the way you understand an issue or concept	Rlnewview	1	Never	36	3	46	3	101	3	435	3	3.0	2.9	.04	2.9 *	.07	2.9 ***	.12
		2	Sometimes	358	26	426	28	1,134	29	4,643	31							
		3	Often	638	45	631	42	1,711	43	6,575	43							
		4	Very often	379	27	400	27	992	25	3,561	23							
		Total		1,411	100	1,503	100	3,938	100	15,214	100							
g. Connected ideas from your courses to your prior experiences and knowledge	Rlconnect	1	Never	12	1	26	2	57	2	197	2	3.1	3.2	.00	3.1	.05	3.1 ***	.10
		2	Sometimes	264	18	268	18	774	20	3,199	22							
		3	Often	632	46	667	44	1,770	45	6,875	45							
		4	Very often	502	35	528	36	1,311	34	4,874	32							
		Total		1,410	100	1,489	100	3,912	100	15,145	100							
3. During the current school year, about how often have you done the following?																		
a. Talked about career plans with a faculty member	SFcareer	1	Never	676	48	624	42	1,449	38	3,099	22	1.8	1.8 *	-08	1.9 ***	-0.15	2.2 ***	-0.49
		2	Sometimes	484	34	607	41	1,648	41	7,051	46							
		3	Often	169	12	171	11	572	14	3,441	22							
		4	Very often	76	6	89	7	255	7	1,581	10							
		Total		1,405	100	1,491	100	3,924	100	15,172	100							
b. Worked with a faculty member on activities other than coursework (committees, student groups, etc.)	SFotherwork	1	Never	939	67	923	63	2,481	64	7,598	51	1.5	1.6 *	-08	1.5	-05	1.8 ***	-0.29
		2	Sometimes	302	21	372	24	942	23	4,497	29							
		3	Often	119	9	117	8	318	8	2,007	13							
		4	Very often	42	3	68	5	160	4	1,016	7							
		Total		1,402	100	1,480	100	3,901	100	15,118	100							

*p<.05, **p<.01, ***p<.001 (2-tailed); Refer to p. 2 for key to triangle symbols.

NSSE 2015 Frequencies and Statistical Comparisons

McMaster University

First-Year Students

Frequency Distributions^a

Statistical Comparisons^b

Your first-year students compared with

Item wording or description	Variable name ^c	Values ^d	Response options	Frequency Distributions ^a								Statistical Comparisons ^b						
				McMaster		Ontario		Canada		Carnegie		McMaster	Ontario	Canada		Carnegie		
				Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size ^e	Mean	Effect size ^e	Mean	Effect size ^e
c. Discussed course topics, ideas, or concepts with a faculty member outside of class	SFdiscuss	1	Never	623	44	552	38	1,370	36	4,871	33	1.8	1.9 *	-0.09	1.9 ***	-0.12	2.0 ***	-0.19
		2	Sometimes	505	36	627	42	1,643	42	6,471	43							
		3	Often	204	15	201	13	631	15	2,633	17							
		4	Very often	69	5	101	7	262	7	1,121	7							
		Total		1,401	100	1,481	100	3,906	100	15,096	100							
d. Discussed your academic performance with a faculty member	SFperform	1	Never	708	50	690	48	1,569	43	3,837	26	1.7	1.7	-0.06	1.8 ***	-0.15	2.1 ***	-0.46
		2	Sometimes	488	35	542	35	1,566	39	7,127	47							
		3	Often	147	11	166	11	535	13	2,883	19							
		4	Very often	57	4	81	6	228	6	1,213	8							
		Total		1,400	100	1,479	100	3,898	100	15,060	100							
4. During the current school year, how much has your coursework emphasized the following?																		
a. Memorizing course material	memorize	1	Very little	59	4	101	7	231	6	415	3	3.0	2.8 ***	.14	2.9 *	.08	3.0 **	-0.08
		2	Some	352	26	423	28	1,029	26	3,263	23							
		3	Quite a bit	549	39	585	40	1,592	41	6,633	44							
		4	Very much	443	31	372	25	1,059	27	4,809	31							
		Total		1,403	100	1,481	100	3,911	100	15,120	100							
b. Applying facts, theories, or methods to practical problems or new situations	HOapply	1	Very little	44	3	50	3	126	3	401	3	3.1	3.1	.02	3.0 ***	.12	3.0 ***	.11
		2	Some	253	18	311	19	887	22	3,342	23							
		3	Quite a bit	598	43	633	43	1,761	45	6,584	43							
		4	Very much	502	36	480	35	1,123	30	4,723	31							
		Total		1,397	100	1,474	100	3,897	100	15,050	100							
c. Analyzing an idea, experience, or line of reasoning in depth by examining its parts	HOanalyze	1	Very little	69	5	69	5	162	4	484	3	2.9	3.0	-0.05	2.9	.01	3.0 **	-0.09
		2	Some	374	27	359	24	1,026	26	3,461	24							
		3	Quite a bit	535	39	623	42	1,631	42	6,407	43							
		4	Very much	411	29	417	30	1,060	27	4,645	30							
		Total		1,389	100	1,468	100	3,879	100	14,997	100							
d. Evaluating a point of view, decision, or information source	HOevaluate	1	Very little	147	11	119	9	288	8	717	5	2.7	2.7	-0.05	2.7 *	-0.07	2.9 ***	-0.25
		2	Some	446	32	448	31	1,154	31	3,875	27							
		3	Quite a bit	480	35	595	39	1,585	40	6,396	42							
		4	Very much	320	22	297	21	842	21	4,020	26							
		Total		1,393	100	1,459	100	3,869	100	15,008	100							

*p<.05, **p<.01, ***p<.001 (2-tailed); Refer to p. 2 for key to triangle symbols.

NSSE 2015 Frequencies and Statistical Comparisons

McMaster University

First-Year Students

Frequency Distributions^a

Statistical Comparisons^b

Your first-year students compared with

Item wording or description	Variable name ^c	Values ^d	Response options	Frequency Distributions ^a								Statistical Comparisons ^b							
				McMaster		Ontario		Canada		Carnegie		McMaster		Ontario		Canada		Carnegie	
				Count	%	Count	%	Count	%	Count	%	Mean	Effect size ^e	Mean	Effect size ^e	Mean	Effect size ^e	Mean	Effect size ^e
e. Forming a new idea or understanding from various pieces of information	HOform	1	Very little	114	8	89	6	246	7	727	5	2.8	2.8 *	-0.09	2.8	-0.05	2.9 ***	-0.14	
		2	Some	437	31	402	27	1,097	29	3,957	27								
		3	Quite a bit	513	37	628	43	1,617	42	6,308	42								
		4	Very much	332	24	343	23	911	22	3,936	26								
		Total		1,396	100	1,462	100	3,871	100	14,928	100								
5. During the current school year, to what extent have your instructors done the following?																			
a. Clearly explained course goals and requirements	ETgoals	1	Very little	52	4	39	2	71	2	271	2	3.0	3.0	-0.05	3.1 **	-0.09	3.1 ***	-0.14	
		2	Some	292	21	294	20	739	19	2,678	18								
		3	Quite a bit	651	47	716	49	1,868	48	7,002	46								
		4	Very much	406	29	429	29	1,227	30	5,114	34								
		Total		1,401	100	1,478	100	3,905	100	15,065	100								
b. Taught course sessions in an organized way	ETorganize	1	Very little	26	2	31	2	77	2	332	2	3.0	3.1	-0.02	3.1	-0.06	3.1	-0.04	
		2	Some	292	21	287	19	672	18	2,792	19								
		3	Quite a bit	667	48	739	51	1,925	50	7,156	47								
		4	Very much	406	29	420	28	1,225	31	4,750	31								
		Total		1,391	100	1,477	100	3,899	100	15,030	100								
c. Used examples or illustrations to explain difficult points	ETexample	1	Very little	53	4	41	3	95	3	406	3	3.1	3.1	-0.05	3.1	-0.05	3.1	-0.03	
		2	Some	287	20	291	19	758	20	2,980	20								
		3	Quite a bit	588	42	637	44	1,673	43	6,451	43								
		4	Very much	469	33	501	34	1,366	35	5,164	34								
		Total		1,397	100	1,470	100	3,892	100	15,001	100								
d. Provided feedback on a draft or work in progress	ETdraftfb	1	Very little	360	26	284	21	640	18	1,266	9	2.2	2.4 ***	-0.23	2.5 ***	-0.29	2.7 ***	-0.58	
		2	Some	539	38	486	33	1,277	33	4,601	31								
		3	Quite a bit	339	24	430	28	1,178	30	5,441	36								
		4	Very much	159	11	269	18	786	19	3,692	24								
		Total		1,397	100	1,469	100	3,881	100	15,000	100								
e. Provided prompt and detailed feedback on tests or completed assignments	ETfeedback	1	Very little	287	20	172	12	400	11	1,395	10	2.4	2.5 ***	-0.20	2.6 ***	-0.29	2.7 ***	-0.35	
		2	Some	530	38	551	38	1,273	34	4,987	34								
		3	Quite a bit	394	29	509	34	1,445	36	5,469	36								
		4	Very much	181	13	233	16	753	18	3,095	21								
		Total		1,392	100	1,465	100	3,871	100	14,946	100								

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McMaster University

First-Year Students

Frequency Distributions^a

Statistical Comparisons^b

Your first-year students compared with

Item wording or description	Variable name ^c	Values ^d Response options	Frequency Distributions ^a								Statistical Comparisons ^b						
			McMaster		Ontario		Canada		Carnegie		McMaster	Ontario	Canada	Carnegie			
			Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size ^e	Mean	Effect size ^e	Mean	Effect size ^e
6. During the current school year, about how often have you done the following?																	
a. Reached conclusions based on your own analysis of numerical information (numbers, graphs, statistics, etc.)	QRconclude	1 Never	289	19	347	21	855	21	1,702	11	2.4	2.4	-.02	2.4	.01	2.6 ***	-.25
		2 Sometimes	498	35	482	31	1,332	33	5,067	33							
		3 Often	404	30	428	31	1,131	30	5,427	36							
		4 Very often	210	16	220	17	583	16	2,852	20							
		Total	1,401	100	1,477	100	3,901	100	15,048	100							
b. Used numerical information to examine a real-world problem or issue (unemployment, climate change, public health, etc.)	QRproblem	1 Never	350	24	427	26	1,152	29	2,953	20	2.2	2.2	.04	2.2 **	.10	2.4 ***	-.12
		2 Sometimes	549	39	558	38	1,461	38	5,798	38							
		3 Often	333	24	340	24	907	24	4,200	28							
		4 Very often	168	12	147	12	366	10	2,073	14							
		Total	1,400	100	1,472	100	3,886	100	15,024	100							
c. Evaluated what others have concluded from numerical information	QRevaluate	1 Never	319	22	398	24	1,067	26	2,653	18	2.3	2.2	.05	2.2 ***	.12	2.4 **	-.09
		2 Sometimes	543	39	577	38	1,539	39	6,092	41							
		3 Often	358	26	353	26	914	25	4,346	29							
		4 Very often	174	13	144	11	357	10	1,889	13							
		Total	1,394	100	1,472	100	3,877	100	14,980	100							
7. During the current school year, about how many papers, reports, or other writing tasks of the following length have you been assigned? (Include those not yet completed.)																	
a. Up to 5 pages	wrshortnum <i>(Recoded version of wrshort created by NSSE. Values are estimated number of papers, reports, etc.)</i>	0 None	111	9	67	6	198	6	571	5	5.8	6.8 ***	-.18	6.7 ***	-.16	6.8 ***	-.18
		1.5 1-2	343	28	236	17	642	18	2,584	19							
		4 3-5	382	29	476	34	1,144	33	4,425	32							
		8 6-10	234	18	328	23	890	24	3,618	25							
		13 11-15	104	8	122	10	364	10	1,524	10							
		18 16-20	47	3	70	5	180	5	667	4							
		23 More than 20	61	5	64	5	179	5	691	5							
		Total	1,282	100	1,363	100	3,597	100	14,080	100							
b. Between 6 and 10 pages	wrmednum <i>(Recoded version of wrmed created by NSSE. Values are estimated number of papers, reports, etc.)</i>	0 None	293	24	315	23	805	24	4,368	34	2.5	3.1 ***	-.17	3.0 ***	-.14	2.1 ***	.14
		1.5 1-2	583	45	492	36	1,367	37	5,739	41							
		4 3-5	270	21	345	26	868	25	2,523	18							
		8 6-10	83	7	140	11	377	11	762	5							
		13 11-15	20	2	38	3	78	2	187	1							
		18 16-20	5	0	11	1	31	1	49	0							
		23 More than 20	9	1	6	1	20	1	58	0							
Total	1,263	100	1,347	100	3,546	100	13,686	100									

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NSSE 2015 Frequencies and Statistical Comparisons

McMaster University

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Frequency Distributions^a

Statistical Comparisons^b

Your first-year students compared with

Item wording or description	Variable name ^c	Values ^d	Response options	Frequency Distributions ^a								Statistical Comparisons ^b						
				McMaster		Ontario		Canada		Carnegie		McMaster	Ontario	Canada	Carnegie			
				Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size ^e	Mean	Effect size ^e	Mean	Effect size ^e
c. 11 pages or more	wrlongnum	0	None	684	56	818	61	2,146	63	9,975	75	1.4	1.6	-08	1.4	.00	.8 ***	.20
	(Recoded version of wrlong created by NSSE. Values are estimated number of papers, reports, etc.)	1.5	1-2	399	33	260	19	788	22	2,467	18							
		4	3-5	73	6	128	12	248	9	418	3							
		8	6-10	26	2	54	5	104	4	230	2							
		13	11-15	14	1	20	2	53	2	98	1							
		18	16-20	3	0	6	0	15	0	40	0							
		23	More than 20	13	1	7	1	17	1	59	1							
	Total			1,212	100	1,293	100	3,371	100	13,287	100							
Estimated number of assigned pages of student writing	wrpages		(Continuous variable, recoded and summed by NSSE from wrshort, wrmed, and wrlong. Values are estimated pages of assigned writing.)									56.1	65.9 ***	-0.14	61.6 *	-0.08	48.2 ***	.13
8. During the current school year, about how often have you had discussions with people from the following groups?																		
a. People of a race or ethnicity other than your own	DDrace	1	Never	30	3	58	4	196	5	411	3	3.4	3.2 ***	.22	3.0 ***	.36	3.2 ***	.18
		2	Sometimes	178	14	295	20	961	25	2,720	19							
		3	Often	367	28	392	29	1,114	30	4,301	30							
		4	Very often	738	56	662	47	1,446	40	6,772	47							
		Total		1,313	100	1,407	100	3,717	100	14,204	100							
b. People from an economic background other than your own	DDeconomic	1	Never	45	4	59	4	190	5	439	3	3.1	3.1 *	.08	3.0 ***	.16	3.2	-0.02
		2	Sometimes	269	21	323	23	932	25	2,784	20							
		3	Often	431	33	487	35	1,293	35	4,739	34							
		4	Very often	561	43	537	38	1,294	35	6,210	43							
		Total		1,306	100	1,406	100	3,709	100	14,172	100							
c. People with religious beliefs other than your own	DDreligion	1	Never	45	4	74	5	272	7	554	4	3.3	3.1 ***	.23	2.9 ***	.35	3.1 ***	.13
		2	Sometimes	215	16	353	24	1,051	27	2,941	21							
		3	Often	396	30	433	31	1,116	30	4,301	31							
		4	Very often	653	50	543	39	1,266	35	6,352	44							
		Total		1,309	100	1,403	100	3,705	100	14,148	100							
d. People with political views other than your own	DDpolitical	1	Never	90	7	87	6	294	7	708	5	3.0	2.9	.04	2.9 ***	.14	3.1 ***	-0.10
		2	Sometimes	328	25	376	27	1,104	29	3,184	23							
		3	Often	407	31	487	35	1,230	34	4,446	32							
		4	Very often	481	37	441	32	1,057	29	5,743	40							
		Total		1,306	100	1,391	100	3,685	100	14,081	100							

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NSSE 2015 Frequencies and Statistical Comparisons

McMaster University

First-Year Students

Frequency Distributions^a

Statistical Comparisons^b

Your first-year students compared with

Item wording or description	Variable name ^c	Values ^d Response options	McMaster				Ontario				Canada				Carnegie					
			Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Mean	Effect size ^e	Mean	Effect size ^e	Mean	Effect size ^e
9. During the current school year, about how often have you done the following?																				
a. Identified key information from reading assignments	LSreading	1 Never	45	4	48	4	107	3	224	2	3.0	3.0	-0.2	3.0	-0.4	3.1 ***	-0.17			
		2 Sometimes	284	22	302	21	784	21	2,467	18										
		3 Often	581	44	629	45	1,642	45	6,162	44										
		4 Very often	403	30	423	31	1,173	31	5,250	35										
		Total	1,313	100	1,402	100	3,706	100	14,103	100										
b. Reviewed your notes after class	LSnotes	1 Never	143	11	145	10	320	9	701	5	2.6	2.6	-0.01	2.6 *	-0.08	2.9 ***	-0.38			
		2 Sometimes	548	42	590	42	1,448	40	4,222	31										
		3 Often	374	29	394	29	1,127	30	4,683	34										
		4 Very often	249	19	267	19	800	21	4,459	30										
		Total	1,314	100	1,396	100	3,695	100	14,065	100										
c. Summarized what you learned in class or from course materials	LSsummary	1 Never	123	10	119	9	297	8	912	7	2.7	2.7	.04	2.7	.02	2.8 ***	-0.13			
		2 Sometimes	449	35	502	36	1,271	35	4,141	30										
		3 Often	387	30	476	34	1,283	35	4,956	36										
		4 Very often	341	26	287	21	816	21	3,890	27										
		Total	1,300	100	1,384	100	3,667	100	13,899	100										
10. During the current school year, to what extent have your courses challenged you to do your best work?																				
challenge		1 Not at all	8	1	6	0	16	1	52	0	5.5	5.4 *	.08	5.4 *	.08	5.5	.03			
		2	14	1	16	1	35	1	117	1										
		3	37	3	36	3	116	3	385	3										
		4	146	11	182	13	404	12	1,400	10										
		5	402	30	465	32	1,240	33	4,753	34										
		6	406	31	439	32	1,184	32	4,586	32										
		7 Very much	299	23	256	18	699	18	2,786	20										
		Total	1,312	100	1,400	100	3,694	100	14,079	100										
11. Which of the following have you done or do you plan to do before you graduate?^f																				
a. Participate in an internship, co-op, field experience, student teaching, or clinical placement	intern	Have not decided	154	12	251	18	678	18	1,072	8	7%	6%	.02	8%	-0.06	10% ***	-0.10			
		Do not plan to do	62	5	89	6	322	9	429	3										
		Plan to do	1,000	76	973	69	2,349	64	11,229	79										
		Done or in progress	86	7	84	6	340	8	1,345	10										
		Total	1,302	100	1,397	100	3,689	100	14,075	100										

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Item wording or description	Variable name ^c	Values ^d	Frequency Distributions ^a								Statistical Comparisons ^b							
			McMaster		Ontario		Canada		Carnegie		McMaster	Ontario		Canada		Carnegie		
			Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size ^e	Mean	Effect size ^e	Mean	Effect size ^e	
b. Hold a formal leadership role in a student organization or group	leader	(Means indicate the percentage who responded "Done or in progress.")	Have not decided	361	28	357	24	1,006	26	3,276	24	9%	13% **	-0.11	12% **	-0.10	14% ***	-0.15
			Do not plan to do	304	24	328	23	1,140	30	2,541	19							
			Plan to do	514	39	538	40	1,101	32	6,182	43							
			Done or in progress	115	9	170	13	434	12	2,025	14							
			Total	1,294	100	1,393	100	3,681	100	14,024	100							
c. Participate in a learning community or some other formal program where groups of students take two or more classes together	learncom	(Means indicate the percentage who responded "Done or in progress.")	Have not decided	432	33	464	32	1,291	34	3,656	27	9%	13% ***	-0.15	12% **	-0.10	18% ***	-0.28
			Do not plan to do	394	31	435	32	1,155	32	4,006	29							
			Plan to do	351	27	318	23	821	23	3,652	26							
			Done or in progress	115	9	175	13	413	12	2,675	18							
			Total	1,292	100	1,392	100	3,680	100	13,989	100							
d. Participate in a study abroad program	abroad	(Means indicate the percentage who responded "Done or in progress.")	Have not decided	404	31	371	26	1,063	28	3,362	25	2%	4% ***	-0.15	4% ***	-0.13	4% ***	-0.16
			Do not plan to do	381	31	392	28	1,119	31	2,770	22							
			Plan to do	481	36	567	42	1,351	37	7,244	49							
			Done or in progress	22	2	57	4	137	4	611	4							
			Total	1,288	100	1,387	100	3,670	100	13,987	100							
e. Work with a faculty member on a research project	research	(Means indicate the percentage who responded "Done or in progress.")	Have not decided	452	35	485	34	1,324	35	4,640	33	4%	5%	-0.05	4%	-0.04	7% ***	-0.14
			Do not plan to do	245	19	341	24	1,010	27	2,952	21							
			Plan to do	548	43	493	38	1,168	34	5,482	40							
			Done or in progress	45	4	64	5	158	4	885	7							
			Total	1,290	100	1,383	100	3,660	100	13,959	100							
f. Complete a culminating senior experience (capstone course, senior project or thesis, comprehensive exam, portfolio, etc.)	capstone	(Means indicate the percentage who responded "Done or in progress.")	Have not decided	458	35	458	33	1,320	36	4,267	30	3%	2%	.03	3%	.01	3%	-0.03
			Do not plan to do	200	15	222	16	697	19	1,375	10							
			Plan to do	596	47	673	49	1,542	42	7,851	56							
			Done or in progress	36	3	34	2	102	3	450	3							
			Total	1,290	100	1,387	100	3,661	100	13,943	100							

12. About how many of your courses at this institution have included a community-based project (service-learning)?

servcourse	1	2	3	4	Total	Mean	Effect size ^e	
None	637	50	789	57	1,947	55	1.6	
Some	576	45	481	35	1,397	37		
Most	64	5	91	6	260	7		
All	10	1	20	2	45	1		
Total	1,287	100	1,381	100	3,649	100		13,822

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Statistical Comparisons^b

Your first-year students compared with

Item wording or description	Variable name ^c	Values ^d Response options	Frequency Distributions ^a								Statistical Comparisons ^b						
			McMaster		Ontario		Canada		Carnegie		McMaster	Ontario	Canada	Carnegie			
			Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size ^e	Mean	Effect size ^e	Mean	Effect size ^e
13. Indicate the quality of your interactions with the following people at your institution.																	
a. Students	QIstudent	1 Poor	21	2	14	1	49	1	173	1	5.7	5.8	-0.7	5.7	-0.2	5.5 ***	.16
		2	27	2	17	1	53	1	290	2							
		3	49	4	44	3	132	4	647	5							
		4	101	8	89	6	292	8	1,472	11							
		5	253	19	276	20	740	20	3,391	24							
		6	409	31	488	35	1,155	32	4,303	30							
		7 Excellent	442	34	464	33	1,246	33	3,732	26							
		— Not applicable	5	0	4	0	19	0	44	0							
		Total	1,307	100	1,396	100	3,686	100	14,052	100							
b. Academic advisors	QIadvisor	1 Poor	82	6	62	4	170	4	517	4	4.8	5.0 **	-0.13	5.0 ***	-0.13	5.1 ***	-0.16
		2	70	5	62	4	180	5	762	5							
		3	99	7	91	6	272	7	1,159	8							
		4	148	11	145	11	434	12	2,020	14							
		5	200	16	256	18	703	19	2,907	21							
		6	204	16	272	20	727	20	3,100	22							
		7 Excellent	200	16	234	17	715	19	3,242	23							
		— Not applicable	301	23	271	20	474	15	306	3							
		Total	1,304	100	1,393	100	3,675	100	14,013	100							
c. Faculty	QIfaculty	1 Poor	60	5	31	2	85	2	273	2	4.9	5.2 ***	-0.20	5.3 ***	-0.21	5.1 ***	-0.12
		2	67	5	47	3	119	4	512	4							
		3	109	8	100	7	240	7	923	7							
		4	183	14	153	11	442	12	2,184	16							
		5	291	23	333	24	844	23	3,763	27							
		6	322	25	403	29	1,090	30	3,855	27							
		7 Excellent	202	16	277	19	762	20	2,267	16							
		— Not applicable	60	5	42	3	74	2	138	1							
		Total	1,294	100	1,386	100	3,656	100	13,915	100							

*p<.05, **p<.01, ***p<.001 (2-tailed); Refer to p. 2 for key to triangle symbols.

NSSE 2015 Frequencies and Statistical Comparisons

McMaster University

First-Year Students

Frequency Distributions^a

Statistical Comparisons^b

Your first-year students compared with

Item wording or description	Variable name ^c	Values ^d	Response options	Frequency Distributions ^a								Statistical Comparisons ^b							
				McMaster		Ontario		Canada		Carnegie		McMaster	Ontario		Canada		Carnegie		
				Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size ^e	Mean	Effect size ^e	Mean	Effect size ^e	
d. Student services staff (career services, student activities, housing, etc.)	Qlstaff	1	Poor	75	6	56	4	174	5	564	4	4.8	5.1 ***	-0.22	5.1 ***	-0.16	4.9 *	-0.07	
		2		70	5	50	3	157	4	687	5								
		3		97	7	88	6	239	6	1,075	7								
		4		156	12	162	11	412	11	2,178	16								
		5		226	18	265	19	666	18	3,135	22								
		6		256	20	327	24	795	22	3,026	21								
		7	Excellent	165	13	243	18	680	18	2,183	16								
		—	Not applicable	250	20	197	14	542	15	1,111	8								
	Total	1,295	100	1,388	100	3,665	100	13,959	100										
e. Other administrative staff and offices (registrar, financial aid, etc.)	Qladmin	1	Poor	72	5	66	5	169	5	704	5	4.7	5.0 ***	-0.15	5.0 ***	-0.17	4.7	.03	
		2		84	6	53	4	146	4	861	6								
		3		108	8	86	6	260	7	1,284	9								
		4		180	14	164	12	456	12	2,299	16								
		5		255	19	316	22	789	21	3,015	21								
		6		267	21	309	22	848	23	2,590	18								
		7	Excellent	144	11	213	14	690	17	1,790	13								
		—	Not applicable	190	15	183	15	316	11	1,441	10								
	Total	1,300	100	1,390	100	3,674	100	13,984	100										
14. How much does your institution emphasize the following?																			
a. Spending significant amounts of time studying and on academic work	empstudy	1	Very little	16	1	25	2	51	1	182	1	3.3	3.2 **	.10	3.2 ***	.12	3.2 **	.08	
		2	Some	157	13	200	14	536	16	2,060	16								
		3	Quite a bit	545	45	632	48	1,660	48	5,943	45								
		4	Very much	509	41	457	35	1,241	35	5,058	38								
			Total	1,227	100	1,314	100	3,488	100	13,243	100								
b. Providing support to help students succeed academically	SEacademic	1	Very little	57	5	43	3	127	4	399	3	2.9	3.1 ***	-0.21	3.1 ***	-0.15	3.1 ***	-0.16	
		2	Some	267	23	261	19	699	20	2,480	19								
		3	Quite a bit	559	46	532	40	1,455	42	5,656	43								
		4	Very much	335	27	474	38	1,189	34	4,624	34								
			Total	1,218	100	1,310	100	3,470	100	13,159	100								
c. Using learning support services (tutoring services, writing center, etc.)	SElearnsup	1	Very little	104	9	90	6	232	7	617	5	2.8	3.1 ***	-0.34	3.0 ***	-0.29	3.1 ***	-0.38	
		2	Some	337	28	237	18	675	19	2,341	18								
		3	Quite a bit	490	40	490	38	1,302	38	5,030	39								
		4	Very much	281	23	490	38	1,252	36	5,147	38								
			Total	1,212	100	1,307	100	3,461	100	13,135	100								

*p<.05, **p<.01, ***p<.001 (2-tailed); Refer to p. 2 for key to triangle symbols.

NSSE 2015 Frequencies and Statistical Comparisons

McMaster University

First-Year Students

Frequency Distributions^a

Statistical Comparisons^b

Your first-year students compared with

Item wording or description	Variable name ^c	Values ^d	Response options	Frequency Distributions ^a								Statistical Comparisons ^b						
				McMaster		Ontario		Canada		Carnegie		McMaster	Ontario	Canada	Carnegie			
				Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size ^e	Mean	Effect size ^e	Mean	Effect size ^e
d. Encouraging contact among students from different backgrounds (social, racial/ethnic, religious, etc.)	SEdiverse	1	Very little	203	17	220	17	567	17	1,331	10	2.5	2.6	-0.07	2.5	-0.06	2.8 ***	-0.30
		2	Some	427	36	375	29	1,066	31	3,711	28							
		3	Quite a bit	365	30	477	36	1,155	34	4,536	34							
		4	Very much	222	18	236	18	672	19	3,579	27							
		Total		1,217	100	1,308	100	3,460	100	13,157	100							
e. Providing opportunities to be involved socially	SEsocial	1	Very little	69	6	78	5	236	7	520	4	2.9	3.0 ***	-0.17	2.9 *	-0.07	3.1 ***	-0.22
		2	Some	317	27	272	20	804	23	2,625	21							
		3	Quite a bit	514	43	544	42	1,353	40	5,209	40							
		4	Very much	315	25	416	33	1,063	31	4,798	35							
		Total		1,215	100	1,310	100	3,456	100	13,152	100							
f. Providing support for your overall well-being (recreation, health care, counseling, etc.)	SEwellness	1	Very little	87	7	96	7	260	7	614	5	2.9	3.0 ***	-0.19	3.0 **	-0.09	3.0 ***	-0.20
		2	Some	296	25	274	19	783	21	2,601	20							
		3	Quite a bit	504	42	496	38	1,359	40	5,229	40							
		4	Very much	328	27	439	36	1,055	32	4,683	35							
		Total		1,215	100	1,305	100	3,457	100	13,127	100							
g. Helping you manage your non-academic responsibilities (work, family, etc.)	SEnonacad	1	Very little	372	31	275	20	810	23	2,570	20	2.1	2.4 ***	-0.31	2.3 ***	-0.21	2.4 ***	-0.30
		2	Some	448	37	468	36	1,286	37	4,674	36							
		3	Quite a bit	287	24	378	30	920	28	3,736	28							
		4	Very much	104	9	179	15	432	13	2,140	16							
		Total		1,211	100	1,300	100	3,448	100	13,120	100							
h. Attending campus activities and events (performing arts, athletic events, etc.)	SEactivities	1	Very little	114	9	129	9	358	10	696	6	2.7	2.8 **	-0.13	2.8 **	-0.10	3.0 ***	-0.35
		2	Some	386	32	355	27	917	27	2,907	23							
		3	Quite a bit	478	39	498	38	1,287	38	5,157	40							
		4	Very much	231	19	316	25	876	25	4,330	32							
		Total		1,209	100	1,298	100	3,438	100	13,090	100							
i. Attending events that address important social, economic, or political issues	SEevents	1	Very little	181	15	217	16	584	17	1,607	13	2.4	2.5	-0.05	2.5	-0.04	2.6 ***	-0.21
		2	Some	493	42	473	37	1,205	36	4,321	33							
		3	Quite a bit	371	31	425	34	1,099	33	4,469	34							
		4	Very much	155	12	179	14	540	15	2,664	20							
		Total		1,200	100	1,294	100	3,428	100	13,061	100							

*p<.05, **p<.01, ***p<.001 (2-tailed); Refer to p. 2 for key to triangle symbols.

NSSE 2015 Frequencies and Statistical Comparisons

McMaster University

First-Year Students

Frequency Distributions^a

Statistical Comparisons^b

Your first-year students compared with

Item wording or description	Variable name ^c	Values ^d	Response options	Frequency Distributions ^a								Statistical Comparisons ^b																				
				McMaster		Ontario		Canada		Carnegie		McMaster	Ontario		Canada		Carnegie															
				Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size ^e	Mean	Effect size ^e	Mean	Effect size ^e														
15. About how many hours do you spend in a typical 7-day week doing the following?																																
a. Preparing for class (studying, reading, writing, doing homework or lab work, analyzing data, rehearsing, and other academic activities)	tmpprehrs	0 0 hrs 3 1-5 hrs 8 6-10 hrs 13 11-15 hrs 18 16-20 hrs 23 21-25 hrs 28 26-30 hrs 33 More than 30 hrs Total	0 hrs 1-5 hrs 6-10 hrs 11-15 hrs 16-20 hrs 21-25 hrs 26-30 hrs More than 30 hrs Total	10 1 112 9 168 14 199 17 225 19 163 13 139 11 199 16 1,215 100	1 9 14 17 19 13 11 16 100	8 1 140 10 240 18 241 18 244 19 187 14 107 8 149 12 1,316 100	1 10 18 18 19 14 8 12 100	18 1 438 12 728 21 660 19 601 18 432 12 277 8 318 9 3,472 100	1 12 21 19 18 12 8 9 100	69 1 1,529 12 2,953 23 2,927 23 2,466 18 1,546 11 834 6 807 6 13,131 100	1 12 23 23 18 11 6 6 100	18.4	17.0 *** ▲	.15	15.8 *** ▲	.28	14.8 *** ▲	.42														
b. Participating in co-curricular activities (organizations, campus publications, student government, fraternity or sorority, intercollegiate or intramural sports, etc.)	tmcocurrhrs	0 0 hrs 3 1-5 hrs 8 6-10 hrs 13 11-15 hrs 18 16-20 hrs 23 21-25 hrs 28 26-30 hrs 33 More than 30 hrs Total	0 hrs 1-5 hrs 6-10 hrs 11-15 hrs 16-20 hrs 21-25 hrs 26-30 hrs More than 30 hrs Total	451 37 463 38 157 13 64 6 35 3 12 1 7 1 11 1 1,200 100	37 38 13 6 3 1 1 1 100	444 31 516 41 194 16 82 7 33 3 15 1 8 1 10 1 1,302 100	31 41 16 7 3 1 1 1 100	1,346 38 1,250 37 460 14 192 6 99 3 44 1 19 1 28 1 3,438 100	38 37 14 6 3 1 1 1 100	3,436 28 4,516 34 2,573 19 1,308 10 687 5 298 2 113 1 150 1 13,081 100	28 34 19 10 5 2 1 1 100								4.3	4.6	-.06	4.3	.00	5.9 *** ▼	-.25							
c. Working for pay on campus	tmworkonhrs	0 0 hrs 3 1-5 hrs 8 6-10 hrs 13 11-15 hrs 18 16-20 hrs 23 21-25 hrs 28 26-30 hrs 33 More than 30 hrs Total	0 hrs 1-5 hrs 6-10 hrs 11-15 hrs 16-20 hrs 21-25 hrs 26-30 hrs More than 30 hrs Total	1,103 91 16 1 31 3 24 2 19 2 5 1 1 0 8 1 1,207 100	91 1 3 2 2 1 0 1 100	1,165 90 41 3 53 4 25 2 15 1 3 0 2 0 9 1 1,313 100	90 3 4 2 1 0 0 1 100	3,006 88 172 4 139 4 69 2 38 1 20 1 3 0 18 1 3,465 100	88 4 4 2 1 1 0 1 100	10,299 78 450 3 952 7 755 6 440 4 134 1 36 0 44 0 13,110 100	78 3 7 6 4 1 0 0 100															1.3	1.1	.03	1.2	.00	2.5 *** ▼	-.23

*p<.05, **p<.01, ***p<.001 (2-tailed); Refer to p. 2 for key to triangle symbols.

NSSE 2015 Frequencies and Statistical Comparisons

McMaster University

First-Year Students

Frequency Distributions^a

Statistical Comparisons^b

Your first-year students compared with

Item wording or description	Variable name ^c	Values ^d	Response options	Frequency Distributions ^a								Statistical Comparisons ^b							
				McMaster		Ontario		Canada		Carnegie		McMaster	Ontario	Canada	Carnegie	Effect size ^e	Effect size ^e	Effect size ^e	Effect size ^e
				Count	%	Count	%	Count	%	Count	%	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
d. Working for pay off campus	tmworkoffhrs	0	0 hrs	908	75	1,010	81	2,347	71	9,904	75	3.4	2.7 *	.10	4.3 ***	-.12	3.5	-.02	
	(Recorded version of tmworkoff created by NSSE. Values are estimated number of hours per week.)	3	1-5 hrs	64	5	51	3	171	4	617	5								
	8	6-10 hrs	69	6	64	4	237	6	648	5									
	13	11-15 hrs	63	6	66	4	266	7	629	5									
	18	16-20 hrs	52	5	53	3	205	5	568	5									
	23	21-25 hrs	19	2	31	2	116	3	344	3									
	28	26-30 hrs	11	1	11	1	46	1	183	1									
	33	More than 30 hrs	17	2	19	1	66	2	151	1									
	Total			1,203	100	1,305	100	3,454	100	13,044	100								
Estimated number of hours working for pay	tmworkhrs											4.5	3.8 *	.08	5.5 **	-.10	6.0 ***	-.14	
	(Continuous variable created by NSSE)																		
e. Doing community service or volunteer work	tmservicehrs	0	0 hrs	742	62	840	67	2,094	63	6,879	55	2.4	1.9 *	.10	2.1	.07	2.4	-.01	
	(Recorded version of tmservice created by NSSE. Values are estimated number of hours per week.)	3	1-5 hrs	332	26	331	25	991	27	4,522	33								
	8	6-10 hrs	55	5	53	4	173	5	849	6									
	13	11-15 hrs	30	3	29	2	86	3	335	3									
	18	16-20 hrs	15	2	17	1	47	1	205	2									
	23	21-25 hrs	13	1	6	1	19	1	90	1									
	28	26-30 hrs	3	0	2	0	5	0	27	0									
	33	More than 30 hrs	7	1	7	0	13	0	30	0									
	Total			1,197	100	1,285	100	3,428	100	12,937	100								
f. Relaxing and socializing (time with friends, video games, TV or videos, keeping up with friends online, etc.)	tmrelaxhrs	0	0 hrs	15	1	16	1	39	1	135	1	13.7	14.6 *	-.10	13.9	-.02	13.0 **	.09	
	(Recorded version of tmrelax created by NSSE. Values are estimated number of hours per week.)	3	1-5 hrs	200	16	175	12	591	16	2,132	17								
	8	6-10 hrs	312	25	318	24	877	25	3,729	28									
	13	11-15 hrs	261	22	303	24	756	22	2,877	22									
	18	16-20 hrs	173	15	200	15	494	15	1,930	15									
	23	21-25 hrs	99	9	112	9	269	8	1,007	8									
	28	26-30 hrs	41	3	61	4	138	4	425	3									
	33	More than 30 hrs	90	8	113	9	266	8	753	6									
	Total			1,191	100	1,298	100	3,430	100	12,988	100								

*p<.05, **p<.01, ***p<.001 (2-tailed); Refer to p. 2 for key to triangle symbols.

NSSE 2015 Frequencies and Statistical Comparisons

McMaster University

First-Year Students

Frequency Distributions^a

Statistical Comparisons^b

Your first-year students compared with

Item wording or description	Variable name ^c	Values ^d	Response options	Frequency Distributions ^a								Statistical Comparisons ^b								
				McMaster		Ontario		Canada		Carnegie		McMaster	Ontario		Canada		Carnegie			
				Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size ^e	Mean	Effect size ^e	Mean	Effect size ^e		
g. Providing care for dependents (children, parents, etc.)	tmcarehrs <i>(Recorded version of tmcare created by NSSE. Values are estimated number of hours per week.)</i>	0	0 hrs	880	73	1,023	82	2,592	77	10,484	79	2.6	1.9 ** △	.12	2.3	.04	1.9 *** △	.14		
		3	1-5 hrs	150	12	125	8	430	11	1,185	10									
		8	6-10 hrs	71	6	53	4	144	4	544	5									
		13	11-15 hrs	42	4	20	1	67	2	312	3									
		18	16-20 hrs	24	2	18	1	53	1	232	2									
		23	21-25 hrs	10	1	13	1	31	1	101	1									
		28	26-30 hrs	4	0	8	1	16	1	44	0									
		33	More than 30 hrs	18	2	29	2	86	2	86	1									
		Total				1,199	100	1,289	100	3,419	100								12,988	100
		h. Commuting to campus (driving, walking, etc.)	tmcommutehrs <i>(Recorded version of tmcommute created by NSSE. Values are estimated number of hours per week.)</i>	0	0 hrs	381	31	389	30	1,006	28								4,397	32
3	1-5 hrs			495	41	600	48	1,597	48	5,537	43									
8	6-10 hrs			176	15	196	14	531	15	1,892	15									
13	11-15 hrs			88	7	55	4	192	5	662	5									
18	16-20 hrs			32	3	26	2	60	2	313	3									
23	21-25 hrs			10	1	18	1	30	1	123	1									
28	26-30 hrs			10	1	6	0	12	0	51	0									
33	More than 30 hrs			9	1	14	1	26	1	76	1									
Total				1,201	100	1,304	100	3,454	100	13,051	100									
16. Of the time you spend preparing for class in a typical 7-day week, about how much is on assigned reading?																				
reading	tmreadinghrs	1	Very little	248	21	262	20	579	18	1,576	13	2.5	2.7 ** ▽	-.11	2.7 *** ▽	-.15	2.7 *** ▽	-.14		
		2	Some	382	32	400	30	1,017	30	4,419	35									
		3	About half	293	24	267	21	838	23	3,804	29									
		4	Most	205	17	270	21	744	21	2,334	17									
		5	Almost all	71	6	107	8	269	8	833	6									
		Total				1,199	100	1,306	100	3,447	100								12,966	100
<p><i>(Continuous variable created by NSSE. Calculated as a proportion of tmprephrs based on reading, where Very little=.10; Some=.25; About half=.50; Most=.75; Almost all=.90)</i></p>																				
7.2																				
7.4 -.03 7.0 .03 6.5 *** △																				

*p<.05, **p<.01, ***p<.001 (2-tailed); Refer to p. 2 for key to triangle symbols.

NSSE 2015 Frequencies and Statistical Comparisons

McMaster University

First-Year Students

Frequency Distributions^a

Statistical Comparisons^b

Your first-year students compared with

Item wording or description	Variable name ^c	Values ^d	Response options	Frequency Distributions ^a								Statistical Comparisons ^b						
				McMaster		Ontario		Canada		Carnegie		McMaster	Ontario	Canada	Carnegie			
				Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size ^e	Mean	Effect size ^e	Mean	Effect size ^e
	tmreadinghrscol	1	0 hrs	10	1	8	1	18	1	60	1							
	(Collapsed version of tmreadinghrs created by NSSE.)	2	More than zero, up to 5 hrs	531	46	606	46	1,637	48	6,451	52							
		3	More than 5, up to 10 hrs	349	29	384	29	974	29	3,904	29							
		4	More than 10, up to 15 hrs	149	12	125	10	361	10	1,298	9							
		5	More than 15, up to 20 hrs	83	7	84	7	203	6	638	5							
		6	More than 20, up to 25 hrs	55	4	76	6	188	5	402	3							
		7	More than 25 hrs	16	1	17	1	47	1	153	1							
			Total	1,193	100	1,300	100	3,428	100	12,906	100							
17. How much has your experience at this institution contributed to your knowledge, skills, and personal development in the following areas?																		
a. Writing clearly and effectively	pgwrite	1	Very little	193	16	148	12	341	11	1,266	10	2.5	2.7 ** ▽	-0.12	2.7 *** ▽	-0.16	2.7 *** ▽	-0.22
		2	Some	384	32	379	29	978	29	3,606	28							
		3	Quite a bit	401	33	536	40	1,429	41	5,171	39							
		4	Very much	232	19	242	19	699	19	3,033	23							
			Total	1,210	100	1,305	100	3,447	100	13,076	100							
b. Speaking clearly and effectively	pgspeak	1	Very little	244	20	256	20	618	19	1,824	15	2.4	2.4	-0.03	2.4	-0.05	2.6 *** ▽	-0.21
		2	Some	426	36	447	34	1,194	35	4,087	31							
		3	Quite a bit	358	30	412	31	1,117	32	4,535	35							
		4	Very much	169	14	190	14	514	15	2,577	19							
			Total	1,197	100	1,305	100	3,443	100	13,023	100							
c. Thinking critically and analytically	pgthink	1	Very little	49	4	39	3	102	3	481	4	3.1	3.1	-0.02	3.1	0.01	3.0 *** △	0.10
		2	Some	205	17	228	17	604	18	2,548	20							
		3	Quite a bit	481	40	556	42	1,490	43	5,669	43							
		4	Very much	462	39	478	38	1,240	36	4,339	33							
			Total	1,197	100	1,301	100	3,436	100	13,037	100							
d. Analyzing numerical and statistical information	pganalyze	1	Very little	221	18	372	25	819	23	1,642	12	2.6	2.5 ** △	0.13	2.5 *** △	0.13	2.7 ** ▽	-0.10
		2	Some	345	28	339	26	1,005	28	3,909	30							
		3	Quite a bit	378	32	361	30	1,002	30	4,575	35							
		4	Very much	252	22	230	20	601	19	2,894	23							
			Total	1,196	100	1,302	100	3,427	100	13,020	100							

*p<.05, **p<.01, ***p<.001 (2-tailed); Refer to p. 2 for key to triangle symbols.

NSSE 2015 Frequencies and Statistical Comparisons

McMaster University

First-Year Students

Frequency Distributions^a

Statistical Comparisons^b

Your first-year students compared with

Item wording or description	Variable name ^c	Values ^d	Response options	Frequency Distributions ^a								Statistical Comparisons ^b						
				McMaster		Ontario		Canada		Carnegie		McMaster	Ontario		Canada		Carnegie	
				Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size ^e	Mean	Effect size ^e	Mean	Effect size ^e
e. Acquiring job- or work-related knowledge and skills	pgwork	1	Very little	253	21	244	19	638	19	1,768	14	2.4	2.5 ***	-.13	2.5 *	-.09	2.6 ***	-.21
		2	Some	422	35	408	31	1,169	33	4,138	32							
		3	Quite a bit	336	28	383	29	1,036	30	4,397	34							
		4	Very much	194	16	265	21	590	18	2,727	20							
		Total		1,205	100	1,300	100	3,433	100	13,030	100							
f. Working effectively with others	pgothers	1	Very little	98	8	113	9	288	9	946	8	2.8	2.8	.00	2.8	.05	2.8	.04
		2	Some	345	29	357	27	973	29	3,664	29							
		3	Quite a bit	427	36	492	38	1,296	38	5,169	39							
		4	Very much	329	27	335	26	864	24	3,222	24							
		Total		1,199	100	1,297	100	3,421	100	13,001	100							
g. Developing or clarifying a personal code of values and ethics	pgvalues	1	Very little	210	18	238	19	537	17	1,764	15	2.5	2.5	.00	2.6	-.06	2.6 ***	-.13
		2	Some	391	33	378	30	1,018	30	3,760	29							
		3	Quite a bit	383	32	436	33	1,137	33	4,591	35							
		4	Very much	217	18	245	18	736	20	2,896	21							
		Total		1,201	100	1,297	100	3,428	100	13,011	100							
h. Understanding people of other backgrounds (economic, racial/ethnic, political, religious, nationality, etc.)	pgdiverse	1	Very little	185	15	268	21	589	18	1,295	11	2.6	2.5 ***	.13	2.5 *	.09	2.8 ***	-.17
		2	Some	373	32	368	29	1,054	32	3,641	28							
		3	Quite a bit	375	31	429	32	1,109	32	4,773	36							
		4	Very much	267	22	234	17	681	18	3,317	25							
		Total		1,200	100	1,299	100	3,433	100	13,026	100							
i. Solving complex real-world problems	pgprobsolve	1	Very little	140	12	207	15	513	15	1,505	12	2.7	2.6 *	.10	2.6 ***	.14	2.6 *	.07
		2	Some	372	31	407	30	1,121	32	4,236	33							
		3	Quite a bit	415	34	445	35	1,169	34	4,632	35							
		4	Very much	275	23	240	20	624	18	2,636	20							
		Total		1,202	100	1,299	100	3,427	100	13,009	100							
j. Being an informed and active citizen	pgcitizen	1	Very little	196	16	227	18	549	17	1,789	14	2.5	2.5	.03	2.5	.02	2.6 *	-.08
		2	Some	404	34	435	34	1,152	34	4,183	33							
		3	Quite a bit	390	33	422	32	1,104	32	4,415	34							
		4	Very much	205	17	209	16	608	17	2,564	19							
		Total		1,195	100	1,293	100	3,413	100	12,951	100							

*p<.05, **p<.01, ***p<.001 (2-tailed); Refer to p. 2 for key to triangle symbols.

NSSE 2015 Frequencies and Statistical Comparisons

McMaster University

First-Year Students

Frequency Distributions^a

Statistical Comparisons^b

Your first-year students compared with

Item wording or description	Variable name ^c	Values ^d	Response options	Frequency Distributions ^a								Statistical Comparisons ^b							
				McMaster		Ontario		Canada		Carnegie		McMaster	Ontario		Canada		Carnegie		
				Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size ^e	Mean	Effect size ^e	Mean	Effect size ^e	
18. How would you evaluate your entire educational experience at this institution?																			
	evalexp	1	Poor	31	3	21	2	55	2	189	2	3.2	3.3 ***	-0.15	3.2	-0.03	3.2	.00	
		2	Fair	142	12	151	11	452	13	1,538	12								
		3	Good	601	49	576	43	1,657	47	6,626	51								
		4	Excellent	433	36	556	44	1,285	38	4,745	35								
			Total	1,207	100	1,304	100	3,449	100	13,098	100								
19. If you could start over again, would you go to the same institution you are now attending?																			
	sameinst	1	Definitely no	24	2	36	3	93	3	389	3	3.4	3.4	-0.06	3.3	.05	3.2 ***	.14	
		2	Probably no	112	9	124	9	364	10	1,525	12								
		3	Probably yes	477	40	457	35	1,413	40	5,478	42								
		4	Definitely yes	594	49	690	54	1,581	47	5,714	42								
			Total	1,207	100	1,307	100	3,451	100	13,106	100								

*p<.05, **p<.01, ***p<.001 (2-tailed); Refer to p. 2 for key to triangle symbols.

NSSE 2015 Frequencies and Statistical Comparisons

McMaster University

Seniors

Frequency Distributions^a

Statistical Comparisons^b

Your seniors compared with

Item wording or description	Variable name ^c	Values ^d Response options	Frequency Distributions ^a								Statistical Comparisons ^b							
			McMaster		Ontario		Canada		Carnegie		McMaster	Ontario	Effect size ^e	Canada	Effect size ^e	Carnegie	Effect size ^e	
			Count	%	Count	%	Count	%	Count	%	Mean	Mean		Mean		Mean		
1. During the current school year, about how often have you done the following?																		
a. Asked questions or contributed to course discussions in other ways	askquest	1 Never	117	6	71	5	127	4	740	4	2.8	2.9 *	-08	2.9 ***	-14	3.0 ***	-20	
		2 Sometimes	659	35	542	34	988	32	6,823	30								
		3 Often	571	31	480	29	966	30	7,455	32								
		4 Very often	520	28	530	32	1,147	34	8,265	35								
		Total	1,867	100	1,623	100	3,228	100	23,283	100								
b. Prepared two or more drafts of a paper or assignment before turning it in	drafts	1 Never	505	27	424	27	841	27	5,763	25	2.3	2.3	-02	2.3	-02	2.3	-03	
		2 Sometimes	628	34	559	35	1,104	35	8,407	36								
		3 Often	443	24	347	21	712	21	5,425	24								
		4 Very often	281	15	287	17	558	17	3,531	15								
		Total	1,857	100	1,617	100	3,215	100	23,126	100								
c. Come to class without completing readings or assignments	unpreparedr <i>(Reverse-coded version of unprepared created by NSSE.)</i>	1 Very often	275	15	171	13	275	10	2,034	9	2.6	2.6	-04	2.8 ***	-19	2.8 ***	-26	
		2 Often	460	25	398	26	643	21	4,334	19								
		3 Sometimes	878	47	814	48	1,705	51	12,500	54								
		4 Never	240	13	232	14	577	17	4,140	18								
		Total	1,853	100	1,615	100	3,200	100	23,008	100								
d. Attended an art exhibit, play or other arts performance (dance, music, etc.)	attendant	1 Never	956	53	595	37	1,289	41	9,483	43	1.7	1.9 ***	-30	1.9 ***	-24	1.8 ***	-19	
		2 Sometimes	606	32	653	41	1,202	38	8,818	38								
		3 Often	183	10	229	14	432	13	2,756	12								
		4 Very often	94	5	124	8	259	8	1,780	7								
		Total	1,839	100	1,601	100	3,182	100	22,837	100								
e. Asked another student to help you understand course material	CLaskhelp	1 Never	192	11	159	10	312	10	2,451	11	2.5	2.6 **	-10	2.6	-02	2.5	.03	
		2 Sometimes	759	41	676	40	1,393	42	9,808	43								
		3 Often	595	32	458	29	928	29	6,722	29								
		4 Very often	298	16	314	21	560	18	3,826	16								
		Total	1,844	100	1,607	100	3,193	100	22,807	100								
f. Explained course material to one or more students	CLexplain	1 Never	88	5	53	3	99	3	910	4	2.8	2.9 **	-09	2.8	-05	2.8	.00	
		2 Sometimes	602	33	531	31	1,056	33	7,761	34								
		3 Often	731	40	645	39	1,291	40	8,831	38								
		4 Very often	405	23	369	26	728	24	5,209	23								
		Total	1,826	100	1,598	100	3,174	100	22,711	100								

*p<.05, **p<.01, ***p<.001 (2-tailed); Refer to p. 2 for key to triangle symbols.

NSSE 2015 Frequencies and Statistical Comparisons

McMaster University

Seniors

Frequency Distributions^a

Statistical Comparisons^b

Your seniors compared with

Item wording or description	Variable name ^c	Values ^d	Response options	Frequency Distributions ^a								Statistical Comparisons ^b							
				McMaster		Ontario		Canada		Carnegie		McMaster	Ontario		Canada		Carnegie		
				Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size ^e	Mean	Effect size ^e	Mean	Effect size ^e	
g. Prepared for exams by discussing or working through course material with other students	CLstudy	1	Never	244	14	187	11	379	12	3,341	15	2.6	2.7 ***	-0.13	2.7 **	-0.09	2.6 *	.05	
		2	Sometimes	632	34	490	30	987	31	8,006	35								
		3	Often	532	29	500	31	997	31	6,408	28								
		4	Very often	420	23	422	27	814	26	4,954	22								
		Total		1,828	100	1,599	100	3,177	100	22,709	100								
h. Worked with other students on course projects or assignments	CLproject	1	Never	98	6	60	3	142	4	1,270	6	3.0	3.0	-0.06	3.0	-0.04	2.9 ***	.08	
		2	Sometimes	467	25	457	28	869	27	6,425	28								
		3	Often	616	33	494	30	967	30	7,698	34								
		4	Very often	642	36	587	39	1,195	38	7,206	32								
		Total		1,823	100	1,598	100	3,173	100	22,599	100								
i. Given a course presentation	present	1	Never	135	8	56	4	152	5	2,498	12	2.8	2.9 *	-0.09	2.9 **	-0.09	2.6 ***	.18	
		2	Sometimes	548	31	487	32	919	30	7,799	35								
		3	Often	619	34	573	36	1,104	35	6,958	30								
		4	Very often	507	27	464	29	975	30	5,108	22								
		Total		1,809	100	1,580	100	3,150	100	22,363	100								
2. During the current school year, about how often have you done the following?																			
a. Combined ideas from different courses when completing assignments	RIintegrate	1	Never	58	3	34	2	75	3	570	3	3.0	3.0 *	-0.08	3.0 **	-0.09	3.0 **	-0.07	
		2	Sometimes	478	27	381	25	738	24	5,495	25								
		3	Often	726	41	656	42	1,272	41	8,760	40								
		4	Very often	518	29	498	31	1,039	32	7,135	32								
		Total		1,780	100	1,569	100	3,124	100	21,960	100								
b. Connected your learning to societal problems or issues	RIsocietal	1	Never	124	8	97	7	180	7	1,485	8	2.7	2.8	-0.04	2.8 **	-0.08	2.8 *	-0.05	
		2	Sometimes	584	34	486	33	917	32	6,842	32								
		3	Often	628	35	542	34	1,105	35	7,626	34								
		4	Very often	426	23	431	25	891	26	5,806	26								
		Total		1,762	100	1,556	100	3,093	100	21,759	100								
c. Included diverse perspectives (political, religious, racial/ethnic, gender, etc.) in course discussions or assignments	RIdiverse	1	Never	303	18	198	16	383	15	2,872	15	2.5	2.5 *	-0.08	2.6 **	-0.10	2.6 ***	-0.12	
		2	Sometimes	635	36	529	35	1,056	35	7,565	35								
		3	Often	479	27	486	30	966	30	6,459	29								
		4	Very often	344	18	348	20	697	20	4,836	21								
		Total		1,761	100	1,561	100	3,102	100	21,732	100								

*p<.05, **p<.01, ***p<.001 (2-tailed); Refer to p. 2 for key to triangle symbols.

NSSE 2015 Frequencies and Statistical Comparisons

McMaster University

Seniors

Frequency Distributions^a

Statistical Comparisons^b

Your seniors compared with

Item wording or description	Variable name ^c	Values ^d	Response options	Frequency Distributions ^a								Statistical Comparisons ^b						
				McMaster		Ontario		Canada		Carnegie		McMaster	Ontario		Canada		Carnegie	
				Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size ^e	Mean	Effect size ^e	Mean	Effect size ^e
d. Examined the strengths and weaknesses of your own views on a topic or issue	Rlownview	1	Never	126	7	82	6	159	6	1,161	6	2.7	2.8	-06	2.8 **	-08	2.8 ***	-10
		2	Sometimes	588	33	472	31	924	31	6,797	32							
		3	Often	694	40	656	41	1,282	41	8,439	39							
		4	Very often	355	20	337	21	717	22	5,244	24							
		Total		1,763	100	1,547	100	3,082	100	21,641	100							
e. Tried to better understand someone else's views by imagining how an issue looks from his or her perspective	Rlperspect	1	Never	85	5	69	5	119	5	835	4	2.8	2.9	-02	2.9	-04	2.9 ***	-08
		2	Sometimes	510	29	418	27	847	28	6,006	28							
		3	Often	723	42	674	43	1,297	42	8,646	40							
		4	Very often	433	24	389	24	818	25	6,100	28							
		Total		1,751	100	1,550	100	3,081	100	21,587	100							
f. Learned something that changed the way you understand an issue or concept	Rlnewview	1	Never	38	2	28	2	54	2	511	3	2.9	3.0 **	-10	3.0 **	-09	2.9	.01
		2	Sometimes	481	28	348	23	708	24	6,070	29							
		3	Often	740	43	699	45	1,361	45	8,897	41							
		4	Very often	486	27	472	30	953	30	6,056	28							
		Total		1,745	100	1,547	100	3,076	100	21,534	100							
g. Connected ideas from your courses to your prior experiences and knowledge	Rlconnect	1	Never	23	1	15	1	32	1	254	1	3.2	3.2 *	-08	3.2 **	-08	3.2 *	-06
		2	Sometimes	321	19	227	15	449	15	3,589	17							
		3	Often	756	43	679	45	1,328	44	8,935	42							
		4	Very often	651	37	619	39	1,259	39	8,656	40							
		Total		1,751	100	1,540	100	3,068	100	21,434	100							
3. During the current school year, about how often have you done the following?																		
a. Talked about career plans with a faculty member	SFcareer	1	Never	534	31	344	22	630	21	3,789	19	2.1	2.2 ***	-15	2.3 ***	-20	2.4 ***	-28
		2	Sometimes	696	40	683	45	1,283	42	8,949	42							
		3	Often	339	19	341	22	741	23	5,255	24							
		4	Very often	188	11	180	12	422	13	3,527	16							
		Total		1,757	100	1,548	100	3,076	100	21,520	100							
b. Worked with a faculty member on activities other than coursework (committees, student groups, etc.)	SFotherwork	1	Never	951	54	750	47	1,394	46	9,128	44	1.7	1.8 **	-10	1.9 ***	-14	1.9 ***	-21
		2	Sometimes	460	26	470	31	951	31	6,366	29							
		3	Often	203	12	199	13	430	14	3,491	16							
		4	Very often	139	8	125	8	295	9	2,467	11							
		Total		1,753	100	1,544	100	3,070	100	21,452	100							

*p<.05, **p<.01, ***p<.001 (2-tailed); Refer to p. 2 for key to triangle symbols.

NSSE 2015 Frequencies and Statistical Comparisons

McMaster University

Seniors

Frequency Distributions^a

Statistical Comparisons^b

Your seniors compared with

Item wording or description	Variable name ^c	Values ^d	Response options	Frequency Distributions ^a								Statistical Comparisons ^b							
				McMaster		Ontario		Canada		Carnegie		McMaster	Ontario		Canada		Carnegie		
				Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size ^e	Mean	Effect size ^e	Mean	Effect size ^e	
c. Discussed course topics, ideas, or concepts with a faculty member outside of class	SFdiscuss	1	Never	544	31	294	19	603	20	5,544	27	2.1	2.3 ***	-0.23	2.3 ***	-0.25	2.2 ***	-0.10	
		2	Sometimes	724	41	739	47	1,347	44	9,160	42								
		3	Often	331	19	343	22	710	23	4,345	20								
		4	Very often	150	9	166	12	408	13	2,378	11								
		Total		1,749	100	1,542	100	3,068	100	21,427	100								
d. Discussed your academic performance with a faculty member	SFperform	1	Never	680	39	502	33	871	30	5,353	26	1.9	2.0	-0.06	2.0 ***	-0.15	2.1 ***	-0.25	
		2	Sometimes	684	40	694	45	1,377	45	9,690	45								
		3	Often	257	15	230	15	541	17	4,195	19								
		4	Very often	124	7	106	7	264	8	2,139	10								
		Total		1,745	100	1,532	100	3,053	100	21,377	100								
4. During the current school year, how much has your coursework emphasized the following?																			
a. Memorizing course material	memorize	1	Very little	129	7	163	11	320	11	1,509	7	2.8	2.7 ***	.21	2.7 ***	.18	2.8	.02	
		2	Some	482	28	498	33	967	32	6,046	29								
		3	Quite a bit	645	37	544	35	1,122	36	8,151	38								
		4	Very much	495	28	337	21	657	21	5,696	26								
		Total		1,751	100	1,542	100	3,066	100	21,402	100								
b. Applying facts, theories, or methods to practical problems or new situations	HOapply	1	Very little	55	3	53	4	90	3	672	3	3.0	3.1 *	-0.07	3.1 *	-0.07	3.1 ***	-0.09	
		2	Some	386	22	306	19	587	19	3,998	19								
		3	Quite a bit	748	43	649	41	1,336	44	8,937	42								
		4	Very much	557	32	529	36	1,037	34	7,729	36								
		Total		1,746	100	1,537	100	3,050	100	21,336	100								
c. Analyzing an idea, experience, or line of reasoning in depth by examining its parts	HOanalyze	1	Very little	93	5	73	5	128	5	835	4	3.0	3.0	-0.07	3.0 **	-0.08	3.1 ***	-0.13	
		2	Some	419	24	323	22	620	21	4,350	21								
		3	Quite a bit	687	39	600	38	1,235	40	8,437	39								
		4	Very much	535	31	531	35	1,055	34	7,639	36								
		Total		1,734	100	1,527	100	3,038	100	21,261	100								
d. Evaluating a point of view, decision, or information source	HOevaluate	1	Very little	150	9	123	10	205	8	1,505	8	2.8	2.8	-0.05	2.9 ***	-0.11	2.9 ***	-0.10	
		2	Some	501	29	365	25	687	24	5,424	26								
		3	Quite a bit	633	36	590	37	1,220	39	8,202	38								
		4	Very much	449	26	458	28	938	29	6,110	28								
		Total		1,733	100	1,536	100	3,050	100	21,241	100								

*p<.05, **p<.01, ***p<.001 (2-tailed); Refer to p. 2 for key to triangle symbols.

NSSE 2015 Frequencies and Statistical Comparisons

McMaster University

Seniors

Frequency Distributions^a

Statistical Comparisons^b

Your seniors compared with

Item wording or description	Variable name ^c	Values ^d	Response options	Frequency Distributions ^a								Statistical Comparisons ^b							
				McMaster		Ontario		Canada		Carnegie		McMaster		Ontario		Canada		Carnegie	
				Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size ^e	Mean	Effect size ^e	Mean	Effect size ^e	
e. Forming a new idea or understanding from various pieces of information	HOform	1	Very little	132	8	89	7	155	6	1,277	6	2.8	2.9 ***	-0.13	2.9 ***	-0.15	2.9 ***	-0.15	
		2	Some	517	30	386	26	745	25	5,251	25								
		3	Quite a bit	679	39	610	39	1,238	40	8,396	39								
		4	Very much	402	23	440	29	899	29	6,303	29								
		Total		1,730	100	1,525	100	3,037	100	21,227	100								
5. During the current school year, to what extent have your instructors done the following?																			
a. Clearly explained course goals and requirements	ETgoals	1	Very little	48	3	34	2	59	2	419	2	3.0	3.1 *	-0.07	3.1 ***	-0.16	3.2 ***	-0.19	
		2	Some	383	22	267	18	461	16	3,512	17								
		3	Quite a bit	815	47	781	50	1,483	49	9,505	44								
		4	Very much	500	29	462	29	1,068	33	7,957	37								
		Total		1,746	100	1,544	100	3,071	100	21,393	100								
b. Taught course sessions in an organized way	ETorganize	1	Very little	37	2	41	3	58	2	496	3	3.0	3.1 *	-0.09	3.1 ***	-0.19	3.1 ***	-0.12	
		2	Some	377	22	258	17	452	15	3,935	19								
		3	Quite a bit	883	50	788	51	1,473	49	9,821	46								
		4	Very much	442	26	452	29	1,069	33	7,092	33								
		Total		1,739	100	1,539	100	3,052	100	21,344	100								
c. Used examples or illustrations to explain difficult points	ETexample	1	Very little	61	3	46	3	74	3	630	3	3.0	3.1 **	-0.10	3.1 ***	-0.16	3.1 ***	-0.13	
		2	Some	395	23	294	19	521	18	3,955	19								
		3	Quite a bit	751	43	670	43	1,308	43	8,842	42								
		4	Very much	526	30	522	34	1,144	37	7,847	36								
		Total		1,733	100	1,532	100	3,047	100	21,274	100								
d. Provided feedback on a draft or work in progress	ETdraftfb	1	Very little	364	21	287	18	464	16	2,650	13	2.4	2.4	-0.05	2.5 ***	-0.17	2.7 ***	-0.29	
		2	Some	623	36	540	36	985	34	6,581	31								
		3	Quite a bit	482	28	455	30	957	31	6,912	32								
		4	Very much	271	16	249	16	641	20	5,139	24								
		Total		1,740	100	1,531	100	3,047	100	21,282	100								
e. Provided prompt and detailed feedback on tests or completed assignments	ETfeedback	1	Very little	203	12	162	10	233	8	1,782	9	2.6	2.6	-0.05	2.7 ***	-0.19	2.8 ***	-0.22	
		2	Some	641	37	537	36	947	33	6,297	30								
		3	Quite a bit	633	37	573	37	1,190	39	8,031	38								
		4	Very much	257	15	260	16	677	21	5,067	24								
		Total		1,734	100	1,532	100	3,047	100	21,177	100								

*p<.05, **p<.01, ***p<.001 (2-tailed); Refer to p. 2 for key to triangle symbols.

NSSE 2015 Frequencies and Statistical Comparisons

McMaster University

Seniors

Frequency Distributions^a

Statistical Comparisons^b

Your seniors compared with

Item wording or description	Variable name ^c	Values ^d Response options	Frequency Distributions ^a								Statistical Comparisons ^b							
			McMaster		Ontario		Canada		Carnegie		McMaster		Ontario		Canada		Carnegie	
			Count	%	Count	%	Count	%	Count	%	Mean	Effect size ^e	Mean	Effect size ^e	Mean	Effect size ^e	Mean	Effect size ^e
6. During the current school year, about how often have you done the following?																		
a. Reached conclusions based on your own analysis of numerical information (numbers, graphs, statistics, etc.)	QRconclude	1 Never	307	17	337	21	616	19	2,486	11	2.6	2.5	.03	2.5	.04	2.7 ***	-.16	▽
		2 Sometimes	545	30	492	30	976	31	6,593	30								
		3 Often	559	33	371	25	852	28	7,059	33								
		4 Very often	340	20	341	25	619	22	5,207	25								
		Total	1,751	100	1,541	100	3,063	100	21,345	100								
b. Used numerical information to examine a real-world problem or issue (unemployment, climate change, public health, etc.)	QRproblem	1 Never	428	24	401	25	759	25	4,009	19	2.3	2.3	-.02	2.3	-.02	2.5 ***	-.17	▽
		2 Sometimes	655	37	556	35	1,081	35	7,391	34								
		3 Often	417	24	340	23	764	25	5,941	28								
		4 Very often	248	15	242	17	452	16	3,982	19								
		Total	1,748	100	1,539	100	3,056	100	21,323	100								
c. Evaluated what others have concluded from numerical information	QRevaluate	1 Never	348	19	333	21	657	21	3,381	16	2.4	2.4	-.06	2.4	-.02	2.5 ***	-.13	▽
		2 Sometimes	653	37	523	33	1,064	34	7,631	36								
		3 Often	490	28	402	27	837	28	6,366	30								
		4 Very often	249	15	277	20	495	17	3,881	18								
		Total	1,740	100	1,535	100	3,053	100	21,259	100								
7. During the current school year, about how many papers, reports, or other writing tasks of the following length have you been assigned? (Include those not yet completed.)																		
a. Up to 5 pages	wrshortnum <i>(Recoded version of wrshort created by NSSE. Values are estimated number of papers, reports, etc.)</i>	0 None	84	5	57	5	127	5	1,215	7	7.2	7.7 *	-.08	7.7 *	-.08	7.4	-.03	▽
		1.5 1-2	286	18	252	18	486	18	3,853	20								
		4 3-5	497	31	398	28	779	28	5,391	27								
		8 6-10	375	24	344	24	661	23	4,381	22								
		13 11-15	158	10	165	12	324	11	2,115	10								
		18 16-20	91	6	75	5	179	6	1,158	6								
		23 More than 20	100	6	120	8	246	8	1,699	8								
		Total	1,591	100	1,411	100	2,802	100	19,812	100								
b. Between 6 and 10 pages	wrmednum <i>(Recoded version of wrmed created by NSSE. Values are estimated number of papers, reports, etc.)</i>	0 None	220	14	105	9	230	9	4,328	23	4.4	4.9 **	-.11	4.8 **	-.10	3.3 ***	.27	▽
		1.5 1-2	504	31	341	25	712	26	7,084	36								
		4 3-5	482	30	555	38	1,057	36	4,896	25								
		8 6-10	244	15	287	19	569	19	2,146	11								
		13 11-15	91	5	79	6	173	6	658	3								
		18 16-20	40	2	28	2	51	2	234	1								
		23 More than 20	24	2	23	2	39	2	231	1								
Total	1,605	100	1,418	100	2,831	100	19,577	100										

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McMaster University

Seniors

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Statistical Comparisons^b

Your seniors compared with

Item wording or description	Variable name ^c	Values ^d	Response options	Frequency Distributions ^a				Statistical Comparisons ^b											
				McMaster		Ontario		Canada		Carnegie		McMaster	Ontario	Canada	Carnegie				
				Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size ^e	Mean	Effect size ^e	Mean	Effect size ^e	
c. 11 pages or more	wrlongnum	0	None	431	27	254	19	567	21	8,613	46	2.9	3.6 ***	-0.15	3.4 ***	-0.11	1.9 ***	.28	
	(Recorded version of wrlong created by NSSE. Values are estimated number of papers, reports, etc.)	1.5	1-2	632	40	579	40	1,150	40	6,896	36								
		4	3-5	305	20	346	24	655	23	2,218	11								
		8	6-10	113	7	125	9	234	9	757	4								
		13	11-15	46	3	48	4	94	4	317	2								
		18	16-20	20	1	28	2	45	2	154	1								
		23	More than 20	20	1	25	2	49	2	209	1								
		Total		1,567	100	1,405	100	2,794	100	19,164	100								
Estimated number of assigned pages of student writing	wrpages		(Continuous variable, recoded and summed by NSSE from wrshort, wrmed, and wrlong. Values are estimated pages of assigned writing.)									97.7	112.8 ***	-0.16	109.2 ***	-0.12	75.2 ***	.26	
8. During the current school year, about how often have you had discussions with people from the following groups?																			
a. People of a race or ethnicity other than your own	DDrace	1	Never	54	4	51	3	130	5	757	4	3.3	3.1 ***	.25	3.0 ***	.31	3.2 *	.06	
		2	Sometimes	274	17	404	27	850	28	3,909	19								
		3	Often	453	28	438	30	858	29	5,751	28								
		4	Very often	882	52	580	40	1,105	38	9,919	49								
			Total	1,663	100	1,473	100	2,943	100	20,336	100								
b. People from an economic background other than your own	DDeconomic	1	Never	57	4	54	4	125	5	751	4	3.1	3.1	.04	3.0 **	.10	3.2 **	-0.08	
		2	Sometimes	374	23	356	23	769	25	4,015	19								
		3	Often	544	33	518	36	1,021	35	6,578	32								
		4	Very often	682	40	537	37	1,017	35	8,949	44								
			Total	1,657	100	1,465	100	2,932	100	20,293	100								
c. People with religious beliefs other than your own	DDreligion	1	Never	79	5	72	4	161	5	921	5	3.1	3.0 ***	.19	2.9 ***	.22	3.1	-0.02	
		2	Sometimes	339	21	430	29	902	30	4,190	21								
		3	Often	497	31	468	32	903	31	6,104	30								
		4	Very often	741	44	490	34	960	33	9,047	45								
			Total	1,656	100	1,460	100	2,926	100	20,262	100								
d. People with political views other than your own	DDpolitical	1	Never	104	7	49	3	139	5	998	5	3.0	2.9	.03	2.9 *	.08	3.1 ***	-0.13	
		2	Sometimes	427	26	440	30	907	30	4,571	23								
		3	Often	512	32	522	36	1,008	35	6,272	31								
		4	Very often	605	36	446	31	859	30	8,330	41								
			Total	1,648	100	1,457	100	2,913	100	20,171	100								

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NSSE 2015 Frequencies and Statistical Comparisons

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Seniors

Frequency Distributions^a

Statistical Comparisons^b

Your seniors compared with

Item wording or description	Variable name ^c	Values ^d	Response options	McMaster				Ontario				Canada				Carnegie			
				Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%		
9. During the current school year, about how often have you done the following?																			
a. Identified key information from reading assignments	LSreading	1	Never	59	4	56	5	84	4	464	2	3.1	3.1	-02	3.2 *	-07	3.2 ***	-12	
		2	Sometimes	318	19	255	19	472	17	3,427	17								
		3	Often	661	40	552	37	1,159	40	7,846	39								
		4	Very often	617	36	604	39	1,215	40	8,510	42								
		Total		1,655	100	1,467	100	2,930	100	20,247	100								
b. Reviewed your notes after class	LSnotes	1	Never	297	18	266	19	443	16	1,735	9	2.4	2.4	.03	2.5 *	-08	2.8 ***	-38	
		2	Sometimes	659	40	580	39	1,096	38	6,558	32								
		3	Often	397	25	381	26	765	26	6,014	30								
		4	Very often	298	18	238	16	621	20	5,872	29								
		Total		1,651	100	1,465	100	2,925	100	20,179	100								
c. Summarized what you learned in class or from course materials	LSsummary	1	Never	202	12	152	11	268	10	1,547	8	2.6	2.6	-02	2.7 **	-09	2.8 ***	-21	
		2	Sometimes	587	36	501	34	962	33	6,072	31								
		3	Often	472	29	479	34	944	33	6,729	33								
		4	Very often	379	23	310	21	720	24	5,606	28								
		Total		1,640	100	1,442	100	2,894	100	19,954	100								
10. During the current school year, to what extent have your courses challenged you to do your best work?																			
challenge		1	Not at all	11	1	7	1	15	1	125	1	5.4	5.4	.01	5.4	-03	5.5 ***	-09	
		2		16	1	16	1	31	1	294	2								
		3		65	4	54	4	99	4	685	4								
		4		185	11	160	11	292	11	1,993	10								
		5		549	33	517	35	979	34	6,156	30								
		6		547	33	466	31	949	31	6,407	31								
		7	Very much	276	16	244	17	556	19	4,520	23								
		Total		1,649	100	1,464	100	2,921	100	20,180	100								
11. Which of the following have you done or do you plan to do before you graduate?^f																			
a. Participate in an internship, co-op, field experience, student teaching, or clinical placement	intern	(Means indicate the percentage who responded "Done or in progress.")	Have not decided	137	8	98	6	211	7	1,268	7	50%	47%	.06	46% *	.07	55% ***	-11	
			Do not plan to do	471	29	552	36	977	34	2,999	16								
			Plan to do	216	13	157	10	371	13	4,459	22								
			Done or in progress	825	50	655	47	1,359	46	11,467	55								
			Total	1,649	100	1,462	100	2,918	100	20,193	100								

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Statistical Comparisons^b

Your seniors compared with

Item wording or description	Variable name ^c	Values ^d	Frequency Distributions ^a								Statistical Comparisons ^b							
			McMaster		Ontario		Canada		Carnegie		McMaster	Ontario		Canada		Carnegie		
			Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size ^e	Mean	Effect size ^e	Mean	Effect size ^e	
b. Hold a formal leadership role in a student organization or group	leader	(Means indicate the percentage who responded "Done or in progress.")	Have not decided	120	7	80	5	197	7	1,676	9	37%	52% ***	-0.30	45% ***	-0.18	41% **	-0.08
			Do not plan to do	781	49	559	38	1,227	42	8,357	43							
			Plan to do	111	7	75	5	164	6	1,609	8							
			Done or in progress	637	37	750	52	1,330	45	8,507	41							
			Total	1,649	100	1,464	100	2,918	100	20,149	100							
c. Participate in a learning community or some other formal program where groups of students take two or more classes together	learncom	(Means indicate the percentage who responded "Done or in progress.")	Have not decided	189	11	138	9	313	11	1,877	10	19%	24% ***	-0.14	23% **	-0.10	26% ***	-0.17
			Do not plan to do	984	60	864	60	1,687	59	11,174	56							
			Plan to do	145	9	90	6	218	7	1,669	9							
			Done or in progress	323	19	367	24	691	23	5,396	26							
			Total	1,641	100	1,459	100	2,909	100	20,116	100							
d. Participate in a study abroad program	abroad	(Means indicate the percentage who responded "Done or in progress.")	Have not decided	199	12	114	8	292	10	2,001	10	7%	20% ***	-0.37	17% ***	-0.30	17% ***	-0.30
			Do not plan to do	1,188	73	980	67	1,930	67	12,655	64							
			Plan to do	123	8	76	5	187	6	1,644	8							
			Done or in progress	130	7	289	20	499	17	3,783	17							
			Total	1,640	100	1,459	100	2,908	100	20,083	100							
e. Work with a faculty member on a research project	research	(Means indicate the percentage who responded "Done or in progress.")	Have not decided	203	13	147	10	336	11	2,541	13	31%	31%	.01	28% *	.08	28% **	.08
			Do not plan to do	698	43	746	50	1,495	51	9,058	45							
			Plan to do	208	13	134	10	283	10	2,786	14							
			Done or in progress	529	31	422	31	783	28	5,658	28							
			Total	1,638	100	1,449	100	2,897	100	20,043	100							
f. Complete a culminating senior experience (capstone course, senior project or thesis, comprehensive exam, portfolio, etc.)	capstone	(Means indicate the percentage who responded "Done or in progress.")	Have not decided	153	10	102	7	259	9	1,629	8	49%	48%	.03	44% **	.10	45% ***	.09
			Do not plan to do	486	29	553	35	1,037	36	4,982	25							
			Plan to do	191	12	149	10	330	11	4,371	22							
			Done or in progress	813	49	654	48	1,288	44	9,119	45							
			Total	1,643	100	1,458	100	2,914	100	20,101	100							

12. About how many of your courses at this institution have included a community-based project (service-learning)?

			Frequency Distributions ^a								Statistical Comparisons ^b							
			McMaster		Ontario		Canada		Carnegie		McMaster	Ontario		Canada		Carnegie		
			Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size ^e	Mean	Effect size ^e	Mean	Effect size ^e	
servcourse	1	None	843	52	764	53	1,300	47	8,947	46	1.5	1.5	.00	1.6 ***	-0.13	1.6 ***	-0.12	
		2	Some	709	43	604	41	1,325	44	9,485								46
		3	Most	85	5	79	5	242	8	1,364								7
		4	All	6	0	13	1	37	1	218								1
		Total	1,643	100	1,460	100	2,904	100	20,014	100								

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Statistical Comparisons^b

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Item wording or description	Variable name ^c	Values ^d Response options	Frequency Distributions ^a								Statistical Comparisons ^b						
			McMaster		Ontario		Canada		Carnegie		McMaster	Ontario	Canada	Carnegie			
			Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size ^e	Mean	Effect size ^e	Mean	Effect size ^e
13. Indicate the quality of your interactions with the following people at your institution.																	
a. Students	QIstudent	1 Poor	18	1	10	1	22	1	227	1	5.8	5.9	-.02	5.9	-.03	5.6 ***	.15
		2	16	1	18	1	29	1	318	2							
		3	36	2	47	3	77	3	860	4							
		4	114	7	81	5	184	6	1,788	9							
		5	320	19	306	20	605	21	4,602	23							
		6	585	35	509	36	919	32	6,232	31							
		7 Excellent	560	34	494	34	1,080	36	6,025	30							
		— Not applicable	3	0	3	0	12	0	130	1							
		Total	1,652	100	1,468	100	2,928	100	20,182	100							
b. Academic advisors	QIadvisor	1 Poor	80	5	86	5	171	6	1,089	6	4.9	4.9	.01	4.9	-.03	5.0 *	-.07
		2	96	5	86	6	167	6	1,219	6							
		3	134	8	91	6	208	7	1,727	9							
		4	231	14	188	13	334	12	2,637	13							
		5	301	19	285	19	549	19	3,857	19							
		6	331	20	271	19	561	19	4,123	20							
		7 Excellent	290	18	266	18	649	21	5,228	26							
		— Not applicable	179	11	191	14	285	11	261	2							
		Total	1,642	100	1,464	100	2,924	100	20,141	100							
c. Faculty	QIfaculty	1 Poor	35	2	26	2	41	1	316	2	5.3	5.4 *	-.09	5.5 ***	-.16	5.4	-.04
		2	50	3	35	3	63	2	492	3							
		3	92	6	60	5	110	4	1,115	6							
		4	198	12	160	11	304	11	2,511	13							
		5	403	24	364	25	651	23	5,079	25							
		6	554	34	481	33	936	33	5,957	29							
		7 Excellent	291	18	317	21	781	25	4,438	22							
		— Not applicable	13	1	9	1	15	1	122	1							
		Total	1,636	100	1,452	100	2,901	100	20,030	100							

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				McMaster		Ontario		Canada		Carnegie		McMaster	Ontario	Canada	Carnegie				
				Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size ^e	Mean	Effect size ^e	Mean	Effect size ^e	
d. Student services staff (career services, student activities, housing, etc.)	Qlstaff	1	Poor	94	6	74	5	141	5	974	5	4.7	4.7	-0.02	4.8 *	-0.08	4.8	-0.05	
		2		96	6	85	6	149	5	976	5								
		3		114	7	117	8	203	7	1,584	8								
		4		177	11	199	14	387	13	2,916	14								
		5		324	20	317	22	586	21	4,037	20								
		6		314	19	292	20	596	20	3,677	18								
		7	Excellent	184	11	169	11	419	14	2,768	14								
		—	Not applicable	340	21	204	14	424	15	3,154	16								
	Total	1,643	100	1,457	100	2,905	100	20,086	100										
e. Other administrative staff and offices (registrar, financial aid, etc.)	Qladmin	1	Poor	77	5	75	5	136	5	1,232	7	4.8	4.8	.01	4.9	-0.05	4.6 ***	.16	
		2		93	6	65	5	139	5	1,340	7								
		3		138	9	133	10	223	8	2,037	10								
		4		227	14	198	13	380	13	3,454	17								
		5		363	22	355	25	685	24	4,349	21								
		6		428	26	313	21	661	22	3,625	18								
		7	Excellent	214	13	218	14	538	17	2,627	13								
		—	Not applicable	104	6	106	8	153	6	1,447	7								
	Total	1,644	100	1,463	100	2,915	100	20,111	100										
14. How much does your institution emphasize the following?																			
a. Spending significant amounts of time studying and on academic work	empstudy	1	Very little	26	2	26	2	52	2	421	2	3.2	3.2	-0.01	3.2	.06	3.1 **	.08	
		2	Some	228	15	185	13	428	15	3,365	17								
		3	Quite a bit	714	45	675	48	1,333	47	8,450	44								
		4	Very much	605	38	533	38	1,027	35	7,041	36								
			Total	1,573	100	1,419	100	2,840	100	19,277	100								
b. Providing support to help students succeed academically	SEacademic	1	Very little	107	7	67	5	133	5	1,020	6	2.7	2.9 ***	-0.23	2.9 ***	-0.24	2.9 ***	-0.19	
		2	Some	508	33	347	25	675	24	4,894	26								
		3	Quite a bit	657	42	627	45	1,254	45	8,146	42								
		4	Very much	287	18	368	25	764	26	5,094	26								
			Total	1,559	100	1,409	100	2,826	100	19,154	100								
c. Using learning support services (tutoring services, writing center, etc.)	SElearnsup	1	Very little	247	16	126	10	247	9	1,788	10	2.4	2.8 ***	-0.39	2.8 ***	-0.39	2.8 ***	-0.39	
		2	Some	587	38	365	27	735	27	5,140	27								
		3	Quite a bit	515	33	561	40	1,107	39	7,167	37								
		4	Very much	204	13	357	23	734	24	5,054	26								
			Total	1,553	100	1,409	100	2,823	100	19,149	100								

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Your seniors compared with

Item wording or description	Variable name ^c	Values ^d	Response options	Frequency Distributions ^a								Statistical Comparisons ^b						
				McMaster		Ontario		Canada		Carnegie		McMaster	Ontario		Canada		Carnegie	
				Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size ^e	Mean	Effect size ^e	Mean	Effect size ^e
d. Encouraging contact among students from different backgrounds (social, racial/ethnic, religious, etc.)	SEdiverse	1	Very little	338	22	369	26	623	23	3,063	16	2.4	2.2 ***	.14	2.3 *	.07	2.6 ***	-.21
		2	Some	539	34	520	38	1,030	37	6,115	32							
		3	Quite a bit	460	30	341	24	748	26	5,757	30							
		4	Very much	227	14	182	13	425	14	4,227	22							
		Total		1,564	100	1,412	100	2,826	100	19,162	100							
e. Providing opportunities to be involved socially	SEsocial	1	Very little	109	8	104	8	211	8	1,321	7	2.8	2.9 ***	-.14	2.9 *	-.08	2.9 ***	-.10
		2	Some	415	27	320	22	691	25	4,615	25							
		3	Quite a bit	658	42	533	38	1,049	37	7,482	39							
		4	Very much	372	24	449	32	872	30	5,721	29							
		Total		1,554	100	1,406	100	2,823	100	19,139	100							
f. Providing support for your overall well-being (recreation, health care, counseling, etc.)	SEwellness	1	Very little	153	11	140	9	251	9	1,719	9	2.7	2.9 ***	-.14	2.8 **	-.10	2.8 ***	-.11
		2	Some	421	28	337	23	739	26	4,650	25							
		3	Quite a bit	616	39	538	40	1,060	38	7,270	38							
		4	Very much	374	23	391	28	772	27	5,455	28							
		Total		1,564	100	1,406	100	2,822	100	19,094	100							
g. Helping you manage your non-academic responsibilities (work, family, etc.)	SEnonacad	1	Very little	557	36	452	31	919	33	6,386	34	2.0	2.1 **	-.11	2.1 *	-.08	2.1 ***	-.09
		2	Some	579	37	548	39	1,077	38	6,794	35							
		3	Quite a bit	310	20	277	21	559	20	3,875	20							
		4	Very much	107	7	123	9	258	9	2,011	10							
		Total		1,553	100	1,400	100	2,813	100	19,066	100							
h. Attending campus activities and events (performing arts, athletic events, etc.)	SEactivities	1	Very little	202	13	167	12	338	12	1,795	10	2.6	2.7 **	-.11	2.7 **	-.10	2.8 ***	-.25
		2	Some	516	33	424	31	843	31	5,093	27							
		3	Quite a bit	577	37	514	37	983	35	7,010	36							
		4	Very much	260	17	295	21	646	22	5,146	27							
		Total		1,555	100	1,400	100	2,810	100	19,044	100							
i. Attending events that address important social, economic, or political issues	SEevents	1	Very little	314	21	241	17	513	19	3,369	18	2.3	2.4 *	-.08	2.4 **	-.09	2.4 ***	-.14
		2	Some	630	40	564	41	1,059	39	7,033	37							
		3	Quite a bit	456	29	424	30	822	29	5,665	30							
		4	Very much	153	10	166	11	410	13	2,907	15							
		Total		1,553	100	1,395	100	2,804	100	18,974	100							

*p<.05, **p<.01, ***p<.001 (2-tailed); Refer to p. 2 for key to triangle symbols.

NSSE 2015 Frequencies and Statistical Comparisons

McMaster University

Seniors

Frequency Distributions^a

Statistical Comparisons^b

Your seniors compared with

Item wording or description	Variable name ^c	Values ^d	Response options	Frequency Distributions ^a								Statistical Comparisons ^b						
				McMaster		Ontario		Canada		Carnegie		McMaster	Ontario	Canada	Carnegie			
				Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size ^e	Mean	Effect size ^e	Mean	Effect size ^e
15. About how many hours do you spend in a typical 7-day week doing the following?																		
a. Preparing for class (studying, reading, writing, doing homework or lab work, analyzing data, rehearsing, and other academic activities)	tmpprehrs	0	0 hrs	15	1	8	1	15	1	60	0	16.3	17.4 **	-11	16.5	-02	14.8 ***	.17
	(Recorded version of tmpprep created by NSSE. Values are estimated number of hours per week.)	3	1-5 hrs	215	14	144	10	367	13	2,755	15							
		8	6-10 hrs	298	20	262	18	540	19	4,583	24							
		13	11-15 hrs	251	16	237	16	487	17	3,798	20							
		18	16-20 hrs	272	17	261	18	492	17	3,146	16							
		23	21-25 hrs	167	11	194	14	348	12	1,952	10							
		28	26-30 hrs	128	8	113	8	230	8	1,151	6							
		33	More than 30 hrs	214	14	186	15	338	13	1,672	9							
			Total	1,560	100	1,405	100	2,817	100	19,117	100							
b. Participating in co-curricular activities (organizations, campus publications, student government, fraternity or sorority, intercollegiate or intramural sports, etc.)	tmcocurrhrs	0	0 hrs	553	37	363	25	958	34	6,877	37	5.2	6.6 ***	-20	5.6	-06	5.2	.00
	(Recorded version of tmcocurr created by NSSE. Values are estimated number of hours per week.)	3	1-5 hrs	506	32	480	34	892	32	5,820	30							
		8	6-10 hrs	220	14	274	20	479	17	3,002	15							
		13	11-15 hrs	128	8	133	10	216	8	1,573	8							
		18	16-20 hrs	73	5	59	5	112	4	912	5							
		23	21-25 hrs	34	2	35	2	54	2	421	2							
		28	26-30 hrs	11	1	22	2	33	1	184	1							
		33	More than 30 hrs	19	1	28	2	49	2	222	1							
			Total	1,544	100	1,394	100	2,793	100	19,011	100							
c. Working for pay on campus	tmworkonhrs	0	0 hrs	1,144	75	948	68	1,876	68	12,758	68	2.7	3.4 **	-11	3.4 **	-10	4.3 ***	-.21
	(Recorded version of tmworkon created by NSSE. Values are estimated number of hours per week.)	3	1-5 hrs	113	7	129	10	294	10	843	4							
		8	6-10 hrs	150	9	163	11	322	11	1,714	8							
		13	11-15 hrs	70	4	69	5	137	5	1,554	8							
		18	16-20 hrs	27	2	43	3	89	3	1,265	6							
		23	21-25 hrs	20	1	19	2	38	2	470	2							
		28	26-30 hrs	7	1	7	0	13	0	187	1							
		33	More than 30 hrs	20	1	22	2	39	2	272	1							
			Total	1,551	100	1,400	100	2,808	100	19,063	100							

*p<.05, **p<.01, ***p<.001 (2-tailed); Refer to p. 2 for key to triangle symbols.

NSSE 2015 Frequencies and Statistical Comparisons

McMaster University

Seniors

Frequency Distributions^a

Statistical Comparisons^b

Your seniors compared with

Item wording or description	Variable name ^c	Values ^d	Response options	Frequency Distributions ^a								Statistical Comparisons ^b							
				McMaster		Ontario		Canada		Carnegie		McMaster		Ontario		Canada		Carnegie	
				Count	%	Count	%	Count	%	Count	%	Mean	Effect size ^e	Mean	Effect size ^e	Mean	Effect size ^e	Mean	Effect size ^e
d. Working for pay off campus	tmworkoffhrs	0	0 hrs	981	62	960	71	1,731	63	9,695	50	6.1	4.2 *** △	.21	5.7	.05	9.6 ***	-.29	
	(Recorded version of tmworkoff created by NSSE. Values are estimated number of hours per week.)	3	1-5 hrs	99	6	74	5	170	6	1,038	5								
	8	6-10 hrs	111	7	91	7	216	8	1,300	7									
	13	11-15 hrs	114	7	77	5	192	6	1,331	7									
	18	16-20 hrs	93	6	69	5	193	7	1,643	9									
	23	21-25 hrs	51	3	35	3	100	4	1,204	6									
	28	26-30 hrs	24	2	30	2	70	2	809	4									
	33	More than 30 hrs	76	6	47	3	118	4	1,926	11									
	Total			1,549	100	1,383	100	2,790	100	18,946	100								
Estimated number of hours working for pay	tmworkhrs											8.7	7.4 ** △	.12	8.9	-.02	13.7 ***	-.40	
	(Continuous variable created by NSSE)																		
e. Doing community service or volunteer work	tmservicehrs	0	0 hrs	757	51	654	50	1,311	50	9,150	50	3.1	3.0	.03	3.0	.04	3.1	.01	
	(Recorded version of tmservice created by NSSE. Values are estimated number of hours per week.)	3	1-5 hrs	503	32	505	35	1,027	35	6,725	34								
	8	6-10 hrs	151	9	123	8	253	9	1,610	8									
	13	11-15 hrs	59	4	51	3	100	3	650	3									
	18	16-20 hrs	26	2	21	1	42	1	385	2									
	23	21-25 hrs	16	1	15	1	28	1	176	1									
	28	26-30 hrs	8	1	4	0	9	0	85	0									
	33	More than 30 hrs	12	1	10	1	13	0	127	1									
	Total			1,532	100	1,383	100	2,783	100	18,908	100								
f. Relaxing and socializing (time with friends, video games, TV or videos, keeping up with friends online, etc.)	tmrelaxhrs	0	0 hrs	13	1	13	1	28	1	369	2	13.2	14.7 *** ▽	-.17	13.7	-.05	11.8 ***	.17	
	(Recorded version of tmrelax created by NSSE. Values are estimated number of hours per week.)	3	1-5 hrs	277	18	168	11	455	15	4,345	23								
	8	6-10 hrs	406	27	354	25	752	27	5,275	27									
	13	11-15 hrs	334	21	334	23	630	22	3,870	20									
	18	16-20 hrs	231	15	227	17	411	15	2,456	13									
	23	21-25 hrs	124	8	124	10	222	9	1,152	6									
	28	26-30 hrs	47	3	60	5	115	4	557	3									
	33	More than 30 hrs	105	7	112	9	174	7	945	5									
	Total			1,537	100	1,392	100	2,787	100	18,969	100								

*p<.05, **p<.01, ***p<.001 (2-tailed); Refer to p. 2 for key to triangle symbols.

NSSE 2015 Frequencies and Statistical Comparisons

McMaster University

Seniors

Frequency Distributions^a

Statistical Comparisons^b

Your seniors compared with

Item wording or description	Variable name ^c	Values ^d	Response options	Frequency Distributions ^a								Statistical Comparisons ^b								
				McMaster		Ontario		Canada		Carnegie		McMaster		Ontario		Canada		Carnegie		
				Count	%	Count	%	Count	%	Count	%	Mean	Effect size ^e	Mean	Effect size ^e	Mean	Effect size ^e	Mean	Effect size ^e	
g. Providing care for dependents (children, parents, etc.)	tmcarehrs <i>(Recorded version of tmcare created by NSSE. Values are estimated number of hours per week.)</i>	0	0 hrs	1,117	71	1,161	85	2,164	78	13,614	71	3.0	1.6 *** ▲	.21	2.7	.04	4.1 *** ▼	-.13		
		3	1-5 hrs	191	12	104	7	265	9	1,921	10									
		8	6-10 hrs	92	6	46	3	110	4	926	5									
		13	11-15 hrs	54	4	22	1	62	2	592	3									
		18	16-20 hrs	35	2	9	1	36	1	391	2									
		23	21-25 hrs	18	1	10	1	27	1	233	1									
		28	26-30 hrs	9	1	6	0	18	1	172	1									
		33	More than 30 hrs	28	2	30	2	103	4	1,099	6									
		Total				1,544	100	1,388	100	2,785	100								18,948	100
		h. Commuting to campus (driving, walking, etc.)	tmcommutehrs <i>(Recorded version of tmcommute created by NSSE. Values are estimated number of hours per week.)</i>	0	0 hrs	100	6	157	11	353	11								1,825	10
3	1-5 hrs			898	58	969	69	1,862	68	11,312	58									
8	6-10 hrs			361	23	191	14	397	14	3,749	21									
13	11-15 hrs			124	8	53	3	119	4	1,242	7									
18	16-20 hrs			46	3	19	1	40	2	456	3									
23	21-25 hrs			16	1	4	0	11	0	185	1									
28	26-30 hrs			4	0	0	0	2	0	88	1									
33	More than 30 hrs			8	1	8	1	21	1	188	1									
Total				1,557	100	1,401	100	2,805	100	19,045	100									
16. Of the time you spend preparing for class in a typical 7-day week, about how much is on assigned reading?												2.6	2.8 *** ▼	-.14	2.8 *** ▼	-.17	2.7 *** ▼	-.13		
reading	1	Very little	354	23	274	23	462	20	3,132	17										
	2	Some	470	30	329	25	707	26	5,597	30										
	3	About half	328	22	261	17	631	20	4,598	24										
	4	Most	269	17	325	21	657	22	3,951	20										
	5	Almost all	132	8	208	14	346	12	1,692	9										
Total				1,553	100	1,397	100	2,803	100	18,970	100									
tmreadinghrs <i>(Continuous variable created by NSSE. Calculated as a proportion of tmprehrs based on reading, where Very little=.10; Some=.25; About half=.50; Most=.75; Almost all=.90)</i>												6.6	7.8 *** ▼	-.17	7.5 *** ▼	-.13	6.7	.00		

*p<.05, **p<.01, ***p<.001 (2-tailed); Refer to p. 2 for key to triangle symbols.

NSSE 2015 Frequencies and Statistical Comparisons

McMaster University

Seniors

Frequency Distributions^a

Statistical Comparisons^b

Your seniors compared with

Item wording or description	Variable name ^c	Values ^d	Response options	Frequency Distributions ^a								Statistical Comparisons ^b						
				McMaster		Ontario		Canada		Carnegie		McMaster	Ontario	Canada	Carnegie			
				Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size ^e	Mean	Effect size ^e	Mean	Effect size ^e
	tmreadinghrscol	1	0 hrs	15	1	8	1	14	1	54	0							
	(Collapsed version of tmreadinghrs created by NSSE.)	2	More than zero, up to 5 hrs	790	51	598	46	1,226	47	9,552	51							
		3	More than 5, up to 10 hrs	422	27	390	27	794	28	5,496	29							
		4	More than 10, up to 15 hrs	144	9	148	10	315	10	1,722	9							
		5	More than 15, up to 20 hrs	84	6	107	7	202	6	1,044	6							
		6	More than 20, up to 25 hrs	66	4	100	6	174	6	719	4							
		7	More than 25 hrs	25	2	43	3	68	2	284	1							
			Total	1,546	100	1,394	100	2,793	100	18,871	100							
17. How much has your experience at this institution contributed to your knowledge, skills, and personal development in the following areas?																		
a. Writing clearly and effectively	pgwrite	1	Very little	73	5	72	6	132	5	1,422	8	3.0	3.1	-0.03	3.1	-0.06	2.9 ***	.11
		2	Some	328	22	264	20	496	19	4,458	23							
		3	Quite a bit	585	38	507	36	1,021	37	6,928	36							
		4	Very much	566	36	560	39	1,163	39	6,265	33							
			Total	1,552	100	1,403	100	2,812	100	19,073	100							
b. Speaking clearly and effectively	pgspeak	1	Very little	107	7	87	6	160	6	1,724	10	2.9	2.9	-0.04	3.0 *	-0.07	2.9 *	.05
		2	Some	383	26	325	24	604	23	4,680	25							
		3	Quite a bit	578	37	535	37	1,072	38	6,763	35							
		4	Very much	475	31	449	32	957	33	5,836	30							
			Total	1,543	100	1,396	100	2,793	100	19,003	100							
c. Thinking critically and analytically	pgthink	1	Very little	27	2	22	2	41	2	506	3	3.4	3.5 ***	-0.13	3.4 **	-0.10	3.3 ***	.10
		2	Some	184	12	122	9	252	9	2,572	14							
		3	Quite a bit	529	34	463	32	951	34	6,837	36							
		4	Very much	797	52	790	58	1,555	56	9,088	48							
			Total	1,537	100	1,397	100	2,799	100	19,003	100							
d. Analyzing numerical and statistical information	pganalyze	1	Very little	195	12	278	20	478	17	1,879	9	2.8	2.8	.07	2.7 *	.08	2.9 **	-0.08
		2	Some	398	25	337	21	728	24	4,720	24							
		3	Quite a bit	492	32	324	23	738	26	6,066	32							
		4	Very much	458	32	462	36	862	32	6,347	34							
			Total	1,543	100	1,401	100	2,806	100	19,012	100							

*p<.05, **p<.01, ***p<.001 (2-tailed); Refer to p. 2 for key to triangle symbols.

NSSE 2015 Frequencies and Statistical Comparisons

McMaster University

Seniors

Frequency Distributions^a

Statistical Comparisons^b

Your seniors compared with

Item wording or description	Variable name ^c	Values ^d	Response options	Frequency Distributions ^a								Statistical Comparisons ^b						
				McMaster		Ontario		Canada		Carnegie		McMaster	Ontario		Canada		Carnegie	
				Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size ^e	Mean	Effect size ^e	Mean	Effect size ^e
e. Acquiring job- or work-related knowledge and skills	pgwork	1	Very little	275	18	217	15	362	13	1,926	10	2.6	2.7 **	-10	2.7 ***	-14	2.9 ***	-.31
		2	Some	482	30	430	29	817	29	4,551	24							
		3	Quite a bit	454	29	432	31	887	31	6,160	32							
		4	Very much	341	23	319	25	735	27	6,382	33							
		Total		1,552	100	1,398	100	2,801	100	19,019	100							
f. Working effectively with others	pgothers	1	Very little	85	6	63	4	125	5	1,086	6	2.9	3.1 ***	-14	3.1 ***	-14	3.0 **	-.07
		2	Some	395	26	310	21	573	20	4,203	23							
		3	Quite a bit	562	36	547	38	1,073	38	6,901	36							
		4	Very much	498	32	473	36	1,025	37	6,781	35							
		Total		1,540	100	1,393	100	2,796	100	18,971	100							
g. Developing or clarifying a personal code of values and ethics	pgvalues	1	Very little	215	14	196	15	340	14	2,788	16	2.6	2.7	-03	2.7 **	-10	2.7 *	-.05
		2	Some	488	32	371	27	694	26	5,117	27							
		3	Quite a bit	487	31	491	34	954	33	5,843	30							
		4	Very much	356	23	340	24	813	27	5,257	27							
		Total		1,546	100	1,398	100	2,801	100	19,005	100							
h. Understanding people of other backgrounds (economic, racial/ethnic, political, religious, nationality, etc.)	pgdiverse	1	Very little	202	13	225	18	381	15	2,058	11	2.7	2.5 ***	.18	2.6 *	.07	2.8 ***	-.11
		2	Some	449	29	451	33	830	31	5,183	27							
		3	Quite a bit	512	33	447	30	907	31	6,062	32							
		4	Very much	387	24	277	19	688	23	5,720	30							
		Total		1,550	100	1,400	100	2,806	100	19,023	100							
i. Solving complex real-world problems	pgprobsolve	1	Very little	191	12	150	11	287	11	1,920	11	2.7	2.8 *	-08	2.8 *	-07	2.8 ***	-.12
		2	Some	477	30	441	30	827	30	5,176	27							
		3	Quite a bit	520	34	438	31	935	33	6,431	33							
		4	Very much	359	24	370	28	755	27	5,484	29							
		Total		1,547	100	1,399	100	2,804	100	19,011	100							
j. Being an informed and active citizen	pgcitizen	1	Very little	247	16	194	15	360	14	2,830	16	2.5	2.6 *	-08	2.6 ***	-12	2.6 **	-.08
		2	Some	531	34	421	30	821	30	5,825	31							
		3	Quite a bit	458	29	477	33	924	32	5,783	30							
		4	Very much	308	20	305	22	691	23	4,510	23							
		Total		1,544	100	1,397	100	2,796	100	18,948	100							

*p<.05, **p<.01, ***p<.001 (2-tailed); Refer to p. 2 for key to triangle symbols.

NSSE 2015 Frequencies and Statistical Comparisons

McMaster University

Seniors

Frequency Distributions^a

Statistical Comparisons^b

Your seniors compared with

Item wording or description	Variable name ^c	Values ^d	Response options	Frequency Distributions ^a								Statistical Comparisons ^b							
				McMaster		Ontario		Canada		Carnegie		McMaster	Ontario		Canada		Carnegie		
				Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size ^e	Mean	Effect size ^e	Mean	Effect size ^e	
18. How would you evaluate your entire educational experience at this institution?																			
	evalexp	1	Poor	32	2	33	2	57	2	458	3	3.2	3.3 ***	-13	3.3 **	-10	3.2	-01	
		2	Fair	199	13	150	11	297	11	2,303	13								
		3	Good	736	47	607	43	1,260	45	8,960	46								
		4	Excellent	586	37	614	44	1,201	42	7,382	38								
			Total	1,553	100	1,404	100	2,815	100	19,103	100								
19. If you could start over again, would you go to the same institution you are now attending?																			
	sameinst	1	Definitely no	50	4	65	4	117	4	801	5	3.2	3.3 *	-09	3.3	-05	3.2	-01	
		2	Probably no	204	13	186	13	368	13	2,425	13								
		3	Probably yes	645	41	477	35	1,019	37	7,579	40								
		4	Definitely yes	659	42	677	49	1,310	46	8,316	43								
			Total	1,558	100	1,405	100	2,814	100	19,121	100								

*p<.05, **p<.01, ***p<.001 (2-tailed); Refer to p. 2 for key to triangle symbols.

NSSE 2015 Frequencies and Statistical Comparisons

Detailed Statistics^B McMaster University

First-Year Students

Variable Name	N		Mean			Standard error ^h				Standard deviation ⁱ				Degrees of freedom ^j			Significance ^k			Effect size ^e		
	McMaster	McMaster	Ontario	Canada	Carnegie	McMaster	Ontario	Canada	Carnegie	McMaster	Ontario	Canada	Carnegie	Ontario	Canada	Carnegie	Ontario	Canada	Carnegie	Ontario	Canada	Carnegie
	Comparisons with:			Comparisons with:			Comparisons with:			Comparisons with:			Comparisons with:			Comparisons with:						
1 a. askquest	1,504	2.45	2.55	2.56	2.76	.022	.022	.016	.006	.86	.92	.91	.85	3,177	3,051	24,323	.002	.000	.000	-.11	-.11	-.36
b. drafts	1,493	2.19	2.32	2.27	2.43	.026	.025	.017	.007	.99	1.01	.98	.98	3,132	4,826	1,692	.000	.017	.000	-.13	-.07	-.24
c. unpreparedr	1,482	2.61	2.71	2.82	2.89	.022	.021	.015	.005	.86	.87	.84	.79	3,142	2,797	1,652	.001	.000	.000	-.12	-.25	-.35
d. attendart	1,486	1.63	1.82	1.77	1.93	.021	.022	.016	.006	.80	.91	.89	.93	3,125	3,153	1,758	.000	.000	.000	-.23	-.16	-.33
e. CLaskhelp	1,479	2.75	2.77	2.72	2.70	.023	.022	.015	.006	.89	.88	.88	.87	3,119	4,769	23,664	.497	.367	.038	-.02	.03	.06
f. CLexplain	1,473	2.89	2.91	2.83	2.81	.022	.020	.014	.005	.83	.82	.83	.82	3,098	4,739	23,540	.413	.031	.000	-.03	.07	.10
g. CLstudy	1,473	2.71	2.76	2.72	2.67	.025	.024	.017	.006	.95	.96	.98	.96	3,106	4,757	23,521	.109	.747	.088	-.06	-.01	.05
h. CLproject	1,468	2.80	2.88	2.82	2.67	.023	.023	.016	.006	.87	.93	.94	.87	3,097	3,013	23,328	.009	.333	.000	-.09	-.03	.14
i. present	1,447	2.15	2.00	2.02	2.20	.023	.022	.016	.006	.86	.90	.92	.90	3,063	4,694	1,665	.000	.000	.015	.17	.14	-.06
2 a. RIintegrate	1,432	2.78	2.84	2.75	2.70	.022	.021	.015	.006	.83	.83	.84	.84	3,029	4,642	22,454	.053	.379	.000	-.07	.03	.10
b. RISocietal	1,418	2.64	2.64	2.60	2.64	.024	.022	.016	.006	.89	.89	.89	.86	3,006	4,603	22,259	.945	.147	.683	.00	.05	.01
c. RIDiverse	1,417	2.35	2.42	2.39	2.56	.026	.024	.017	.006	.96	.96	.96	.89	3,000	4,596	1,584	.036	.158	.000	-.08	-.05	-.24
d. Rlownview	1,412	2.65	2.68	2.65	2.77	.023	.021	.015	.006	.87	.85	.85	.83	2,996	4,577	1,588	.351	.908	.000	-.03	.00	-.14
e. RIPerspect	1,408	2.82	2.77	2.77	2.87	.023	.022	.015	.006	.85	.87	.85	.82	2,985	4,570	1,588	.125	.095	.032	.06	.05	-.06
f. RInewview	1,410	2.95	2.92	2.90	2.86	.021	.021	.014	.006	.79	.82	.80	.80	2,972	2,731	1,611	.304	.040	.000	.04	.07	.12
g. RIconnect	1,410	3.15	3.15	3.11	3.07	.020	.019	.014	.005	.74	.77	.76	.77	2,977	4,556	21,969	.904	.149	.000	.00	.05	.10
3 a. SFcareer	1,406	1.76	1.82	1.89	2.20	.023	.022	.016	.006	.88	.87	.88	.90	2,976	2,716	21,993	.039	.000	.000	-.08	-.15	-.49
b. SFotherwork	1,404	1.49	1.55	1.52	1.75	.021	.021	.015	.006	.78	.84	.82	.92	2,959	4,543	1,680	.021	.138	.000	-.08	-.05	-.29
c. SFdiscuss	1,402	1.82	1.90	1.93	1.99	.023	.022	.016	.006	.87	.89	.88	.89	2,962	2,701	1,608	.011	.000	.000	-.09	-.12	-.19
d. SFperform	1,401	1.69	1.74	1.81	2.08	.022	.022	.015	.006	.82	.87	.87	.87	2,959	4,535	1,624	.107	.000	.000	-.06	-.15	-.46
4 a. memorize	1,404	2.96	2.84	2.89	3.03	.023	.022	.015	.006	.86	.88	.87	.80	2,941	4,545	1,575	.000	.013	.007	.14	.08	-.08
b. HOapply	1,398	3.11	3.10	3.02	3.03	.022	.021	.014	.006	.81	.81	.81	.81	2,951	2,674	1,593	.581	.000	.000	.02	.12	.11
c. HOanalyze	1,389	2.93	2.97	2.92	3.00	.023	.022	.015	.006	.87	.85	.84	.82	2,886	4,506	1,562	.216	.849	.002	-.05	.01	-.09
d. HOevaluate	1,394	2.67	2.72	2.74	2.89	.025	.023	.016	.006	.94	.89	.88	.85	2,866	2,528	1,553	.196	.034	.000	-.05	-.07	-.25
e. HOform	1,397	2.76	2.84	2.80	2.88	.024	.022	.015	.006	.90	.86	.86	.85	2,870	2,579	1,572	.017	.162	.000	-.09	-.05	-.14
5 a. ETgoals	1,401	3.00	3.04	3.07	3.11	.021	.019	.013	.005	.80	.76	.75	.77	2,959	4,538	21,827	.163	.005	.000	-.05	-.09	-.14
b. ETorganize	1,390	3.04	3.06	3.09	3.07	.020	.019	.013	.005	.76	.74	.75	.77	2,947	4,523	21,764	.661	.081	.147	-.02	-.06	-.04
c. ETexample	1,398	3.06	3.10	3.10	3.08	.022	.020	.014	.006	.83	.80	.80	.81	2,947	4,525	21,743	.155	.116	.316	-.05	-.05	-.03
d. ETdraftfb	1,397	2.21	2.43	2.49	2.75	.026	.026	.018	.006	.96	1.01	1.00	.92	2,936	2,781	21,736	.000	.000	.000	-.23	-.29	-.58
e. ETfeedback	1,392	2.35	2.53	2.62	2.67	.025	.023	.016	.006	.95	.89	.91	.91	2,860	2,562	1,572	.000	.000	.000	-.20	-.29	-.35

NSSE 2015 Frequencies and Statistical Comparisons

Detailed Statistics^B McMaster University

First-Year Students

Variable Name	N		Mean			Standard error ^h				Standard deviation ⁱ				Degrees of freedom ^j			Significance ^k			Effect size ^e		
	McMaster	McMaster	Ontario	Canada	Carnegie	McMaster	Ontario	Canada	Carnegie	McMaster	Ontario	Canada	Carnegie	Ontario	Canada	Carnegie	Ontario	Canada	Carnegie	Ontario	Canada	Carnegie
	Comparisons with:																					
6 a. QRconclude	1,402	2.42	2.44	2.41	2.65	.026	.025	.018	.006	.97	1.00	.99	.92	2,959	4,538	1,576	.555	.795	.000	-.02	.01	-.25
b. QRproblem	1,401	2.25	2.21	2.15	2.36	.026	.024	.017	.007	.96	.96	.95	.95	2,952	4,525	21,781	.261	.002	.000	.04	.10	-.12
c. QRevaluate	1,395	2.29	2.25	2.18	2.37	.025	.024	.017	.006	.95	.95	.93	.92	2,947	2,630	21,712	.196	.000	.001	.05	.12	-.09
7 a. wrshortnum	1,283	5.76	6.79	6.66	6.77	.160	.154	.107	.041	5.73	5.83	5.75	5.68	2,720	4,163	20,200	.000	.000	.000	-.18	-.16	-.18
b. wrmednum	1,264	2.52	3.10	2.98	2.12	.092	.095	.066	.022	3.26	3.60	3.49	2.95	2,684	2,586	1,410	.000	.000	.000	-.17	-.14	.14
c. wrlongnum	1,217	1.39	1.63	1.40	.85	.090	.088	.058	.020	3.15	3.27	3.04	2.61	2,572	2,267	1,333	.056	.927	.000	-.08	.00	.20
— wrpages	1,195	56.14	65.89	61.55	48.16	2.103	1.857	1.294	.457	72.70	68.14	66.81	60.72	2,539	3,858	1,309	.000	.024	.000	-.14	-.08	.13
8 a. DDrace	1,314	3.37	3.18	3.05	3.22	.022	.023	.017	.006	.81	.90	.92	.86	2,794	2,841	1,523	.000	.000	.000	.22	.36	.18
b. DDeconomic	1,305	3.15	3.08	3.00	3.16	.024	.023	.016	.006	.87	.87	.89	.86	2,785	4,272	20,310	.030	.000	.540	.08	.16	-.02
c. DDreligion	1,309	3.26	3.05	2.94	3.15	.024	.024	.017	.006	.86	.92	.95	.89	2,787	2,735	20,297	.000	.000	.000	.23	.35	.13
d. DDpolitical	1,305	2.98	2.94	2.85	3.07	.026	.024	.017	.007	.95	.90	.93	.91	2,770	4,250	20,190	.271	.000	.001	.04	.14	-.10
9 a. LSreading	1,313	3.00	3.02	3.03	3.13	.023	.021	.015	.006	.82	.82	.81	.77	2,789	4,278	20,257	.542	.273	.000	-.02	-.04	-.17
b. LSnotes	1,314	2.55	2.56	2.62	2.89	.025	.024	.017	.007	.92	.91	.91	.90	2,785	4,269	1,494	.873	.021	.000	-.01	-.08	-.38
c. LSsummary	1,300	2.71	2.67	2.70	2.83	.026	.024	.017	.007	.95	.90	.90	.90	2,677	2,361	1,466	.249	.620	.000	.04	.02	-.13
10. challenge	1,311	5.53	5.44	5.45	5.50	.032	.029	.021	.008	1.18	1.12	1.13	1.12	2,786	4,268	1,480	.027	.021	.273	.08	.08	.03
11 a. intern ^l	1,303	.068	.062	.085	.096	.0070	.0063	.0051	.0021	--	--	--	--	--	--	--	.531	.058	.001	.02	-.06	-.10
b. leader ^l	1,293	.090	.125	.119	.137	.0079	.0086	.0060	.0025	--	--	--	--	--	--	--	.003	.005	.000	-.11	-.10	-.15
c. learncom ^l	1,292	.086	.131	.116	.180	.0078	.0088	.0059	.0028	--	--	--	--	--	--	--	.000	.004	.000	-.15	-.10	-.28
d. abroad ^l	1,286	.018	.043	.039	.044	.0037	.0053	.0035	.0015	--	--	--	--	--	--	--	.000	.000	.000	-.15	-.13	-.16
e. research ^l	1,290	.035	.046	.042	.066	.0051	.0055	.0037	.0018	--	--	--	--	--	--	--	.174	.280	.000	-.05	-.04	-.14
f. capstone ^l	1,290	.029	.024	.027	.034	.0047	.0040	.0030	.0013	--	--	--	--	--	--	--	.417	.677	.323	.03	.01	-.03
12. servcourse	1,284	1.57	1.53	1.54	1.54	.018	.018	.013	.005	.63	.68	.68	.65	2,731	2,616	19,825	.064	.183	.069	.07	.04	.05
13 a. Qlstudent	1,302	5.72	5.81	5.74	5.51	.038	.032	.024	.010	1.36	1.23	1.30	1.34	2,639	4,239	20,082	.065	.576	.000	-.07	-.02	.16
b. Qladvisor	1,003	4.79	5.01	5.01	5.05	.058	.049	.034	.012	1.82	1.68	1.70	1.67	2,059	1,734	1,096	.003	.001	.000	-.13	-.13	-.16
c. Qlfaculty	1,236	4.93	5.24	5.26	5.10	.046	.039	.027	.011	1.63	1.46	1.46	1.43	2,500	2,129	1,365	.000	.000	.000	-.20	-.21	-.12
d. Qlstaff	1,042	4.77	5.13	5.05	4.89	.054	.045	.034	.012	1.75	1.60	1.69	1.64	2,138	1,889	1,155	.000	.000	.037	-.22	-.16	-.07
e. Qladmin	1,108	4.72	4.96	5.01	4.67	.051	.046	.032	.013	1.69	1.63	1.65	1.69	2,299	2,034	17,937	.000	.000	.316	-.15	-.17	.03
14 a. empstudy	1,226	3.25	3.17	3.16	3.19	.021	.020	.014	.006	.73	.73	.73	.75	2,607	2,359	18,862	.008	.000	.008	.10	.12	.08
b. SEacademic	1,217	2.95	3.12	3.07	3.08	.024	.022	.016	.006	.82	.82	.83	.82	2,556	3,980	18,733	.000	.000	.000	-.21	-.15	-.16
c. SElearnsup	1,212	2.77	3.08	3.03	3.10	.026	.024	.017	.007	.90	.90	.91	.87	2,583	2,341	1,372	.000	.000	.000	-.34	-.29	-.38

NSSE 2015 Frequencies and Statistical Comparisons

Detailed Statistics^B McMaster University

First-Year Students

Variable Name	N		Mean			Standard error ^h				Standard deviation ⁱ				Degrees of freedom ^j			Significance ^k			Effect size ^e		
	McMaster	McMaster	Ontario	Canada	Carnegie	McMaster	Ontario	Canada	Carnegie	McMaster	Ontario	Canada	Carnegie	Ontario	Canada	Carnegie	Ontario	Canada	Carnegie	Ontario	Canada	Carnegie
				<i>Comparisons with:</i>			<i>Comparisons with:</i>			<i>Comparisons with:</i>			<i>Comparisons with:</i>			<i>Comparisons with:</i>			<i>Comparisons with:</i>			
d. SEdiverse	1,215	2.49	2.56	2.55	2.78	.028	.026	.019	.007	.97	.97	.98	.96	2,587	3,967	1,382	.058	.072	.000	-.07	-.06	-.30
e. SEsocial	1,213	2.87	3.02	2.94	3.06	.024	.023	.017	.006	.85	.86	.90	.85	2,588	3,964	18,720	.000	.036	.000	-.17	-.07	-.22
f. SEwellness	1,214	2.87	3.04	2.96	3.04	.025	.024	.017	.007	.89	.90	.91	.86	2,585	3,963	1,379	.000	.007	.000	-.19	-.09	-.20
g. SEonacad	1,209	2.11	2.40	2.31	2.40	.027	.026	.018	.007	.94	.96	.96	.98	2,548	2,355	1,396	.000	.000	.000	-.31	-.21	-.30
h. SEactivities	1,206	2.68	2.79	2.77	2.98	.025	.025	.018	.007	.88	.93	.94	.88	2,569	3,939	1,375	.001	.004	.000	-.13	-.10	-.35
i. SEevents	1,198	2.41	2.46	2.45	2.61	.026	.025	.018	.007	.89	.92	.94	.94	2,558	2,403	1,391	.190	.191	.000	-.05	-.04	-.21
15 a. tmprephrs	1,214	18.38	17.01	15.77	14.79	.276	.247	.172	.064	9.62	9.20	9.07	8.40	2,594	2,197	1,344	.000	.000	.000	.15	.28	.42
b. tmcocurrhrs	1,198	4.26	4.59	4.26	5.88	.171	.156	.112	.051	5.92	5.75	5.85	6.69	2,564	3,933	1,416	.148	.975	.000	-.06	.00	-.25
c. tmworkonhrs	1,207	1.26	1.14	1.24	2.52	.133	.115	.083	.043	4.63	4.28	4.35	5.62	2,584	3,964	1,464	.478	.898	.000	.03	.00	-.23
d. tmworkoffhrs	1,202	3.36	2.66	4.29	3.53	.206	.178	.154	.057	7.15	6.59	8.10	7.50	2,460	2,572	18,557	.010	.000	.466	.10	-.12	-.02
— tmworkhrs	1,195	4.54	3.78	5.49	5.98	.286	.245	.188	.076	9.90	9.05	9.84	9.93	2,438	2,262	1,366	.042	.006	.000	.08	-.10	-.14
e. tmservicehrs	1,195	2.41	1.92	2.09	2.45	.146	.118	.083	.033	5.05	4.34	4.31	4.35	2,369	1,989	1,320	.010	.060	.789	.10	.07	-.01
f. tmrelaxhrs	1,189	13.70	14.57	13.88	12.96	.254	.238	.169	.063	8.75	8.79	8.83	8.27	2,549	3,917	1,338	.012	.553	.005	-.10	-.02	.09
g. tmcarehrs	1,196	2.58	1.89	2.34	1.87	.176	.159	.124	.039	6.09	5.86	6.46	5.07	2,482	3,909	1,312	.004	.275	.000	.12	.04	.14
h. tmcommutehrs	1,199	4.62	4.08	4.19	4.20	.169	.146	.099	.041	5.86	5.40	5.20	5.36	2,455	2,056	1,340	.014	.028	.015	.10	.08	.08
16. reading	1,195	2.53	2.67	2.71	2.69	.034	.034	.023	.008	1.16	1.24	1.21	1.09	2,552	2,357	1,343	.004	.000	.000	-.11	-.15	-.14
— tmreadinghrs	1,190	7.24	7.43	7.04	6.45	.179	.180	.121	.043	6.18	6.63	6.32	5.64	2,541	3,916	1,330	.461	.347	.000	-.03	.03	.14
17 a. pgwrite	1,209	2.54	2.66	2.69	2.74	.028	.025	.017	.007	.98	.91	.90	.92	2,484	2,154	1,361	.002	.000	.000	-.12	-.16	-.22
b. pgspeak	1,195	2.37	2.40	2.42	2.58	.028	.026	.018	.007	.96	.96	.96	.96	2,562	3,930	18,533	.516	.191	.000	-.03	-.05	-.21
c. pgthink	1,196	3.13	3.15	3.12	3.04	.025	.022	.015	.006	.85	.81	.81	.83	2,560	2,183	1,358	.547	.772	.001	-.02	.01	.10
d. pganalyze	1,195	2.59	2.46	2.45	2.68	.030	.029	.020	.007	1.02	1.07	1.04	.96	2,540	3,920	1,343	.001	.000	.002	.13	.13	-.10
e. pgwork	1,204	2.39	2.52	2.47	2.59	.028	.028	.019	.007	.99	1.02	1.00	.97	2,547	3,933	18,547	.001	.013	.000	-.13	-.09	-.21
f. pgothers	1,197	2.82	2.82	2.78	2.78	.027	.025	.018	.007	.92	.92	.92	.90	2,557	3,917	18,487	.962	.177	.204	.00	.05	.04
g. pgvalues	1,199	2.50	2.49	2.55	2.62	.028	.027	.019	.007	.98	1.00	.99	.98	2,556	3,922	18,516	.939	.100	.000	.00	-.06	-.13
h. pgdiverse	1,198	2.59	2.46	2.51	2.75	.029	.027	.019	.007	.99	1.01	.99	.95	2,558	3,924	1,353	.001	.012	.000	.13	.09	-.17
i. pgprobolve	1,201	2.69	2.60	2.56	2.62	.027	.026	.018	.007	.95	.97	.96	.93	2,563	3,926	18,510	.014	.000	.019	.10	.14	.07
j. pgcitizen	1,194	2.50	2.47	2.49	2.58	.028	.026	.018	.007	.96	.96	.96	.96	2,549	3,906	18,432	.390	.599	.010	.03	.02	-.08
18. evalexpr	1,205	3.19	3.30	3.21	3.19	.021	.020	.014	.005	.74	.73	.73	.71	2,514	3,949	18,636	.000	.407	.877	-.15	-.03	.00
19. sameinst	1,205	3.35	3.39	3.31	3.24	.021	.020	.015	.006	.74	.76	.77	.78	2,576	3,953	18,647	.158	.112	.000	-.06	.05	.14

NSSE 2015 Frequencies and Statistical Comparisons

Detailed Statistics^g McMaster University

Seniors

Variable Name	N	Mean				Standard error ^h				Standard deviation ⁱ				Degrees of freedom ^j			Significance ^k			Effect size ^e		
	McMaster	McMaster	Ontario	Canada	Carnegie	McMaster	Ontario	Canada	Carnegie	McMaster	Ontario	Canada	Carnegie	Comparisons with:			Comparisons with:			Comparisons with:		
														Ontario	Canada	Carnegie	Ontario	Canada	Carnegie	Ontario	Canada	Carnegie
1 a. askquest	1,867	2.81	2.88	2.94	2.98	.021	.024	.018	.005	.91	.92	.91	.89	3,368	4,571	2,057	.021	.000	.000	-.08	-.14	-.20
b. drafts	1,856	2.27	2.29	2.29	2.30	.024	.027	.020	.005	1.01	1.04	1.04	1.01	3,351	4,548	36,839	.637	.500	.225	-.02	-.02	-.03
c. unpreparedr	1,853	2.59	2.63	2.75	2.81	.021	.023	.017	.004	.90	.88	.86	.83	3,344	3,858	2,025	.214	.000	.000	-.04	-.19	-.26
d. attendart	1,837	1.67	1.93	1.88	1.84	.020	.024	.018	.005	.85	.91	.92	.90	3,317	4,501	36,354	.000	.000	.000	-.30	-.24	-.19
e. CLaskhelp	1,845	2.53	2.62	2.55	2.50	.021	.024	.017	.005	.88	.92	.90	.90	3,116	4,516	36,308	.005	.455	.159	-.10	-.02	.03
f. CLexplain	1,826	2.80	2.88	2.85	2.80	.020	.022	.016	.005	.84	.83	.82	.84	3,304	4,484	36,146	.010	.072	.940	-.09	-.05	.00
g. CLstudy	1,828	2.61	2.74	2.71	2.56	.023	.026	.019	.005	.99	.98	.98	.99	3,306	4,487	36,127	.000	.002	.033	-.13	-.09	.05
h. CLproject	1,823	2.99	3.04	3.02	2.91	.021	.023	.018	.005	.92	.89	.91	.91	3,301	4,479	35,918	.108	.208	.001	-.06	-.04	.08
i. present	1,811	2.81	2.89	2.89	2.64	.022	.023	.017	.005	.92	.86	.89	.96	3,199	3,802	2,025	.011	.004	.000	-.09	-.09	.18
2 a. RIintegrate	1,782	2.95	3.02	3.02	3.01	.020	.021	.016	.005	.83	.81	.81	.83	3,230	4,391	34,781	.031	.005	.002	-.08	-.09	-.07
b. RISocietal	1,765	2.74	2.78	2.81	2.78	.021	.024	.018	.005	.90	.91	.90	.91	3,199	4,346	34,440	.236	.009	.033	-.04	-.08	-.05
c. RIDiverse	1,764	2.46	2.54	2.56	2.57	.024	.026	.019	.005	.99	.98	.97	.98	3,202	4,352	34,395	.019	.001	.000	-.08	-.10	-.12
d. Rlownview	1,765	2.72	2.77	2.79	2.81	.021	.023	.017	.005	.86	.85	.85	.86	3,192	4,338	34,257	.075	.007	.000	-.06	-.08	-.10
e. RIPerspect	1,753	2.84	2.86	2.87	2.91	.020	.022	.017	.005	.84	.85	.84	.85	3,181	4,323	34,148	.554	.251	.001	-.02	-.04	-.08
f. RInewview	1,747	2.95	3.03	3.02	2.94	.019	.021	.015	.005	.80	.78	.78	.81	3,171	4,312	34,046	.006	.005	.582	-.10	-.09	.01
g. RIconnect	1,751	3.15	3.21	3.21	3.20	.018	.020	.015	.004	.77	.74	.74	.76	3,169	4,309	33,903	.027	.008	.013	-.08	-.08	-.06
3 a. SFcareer	1,760	2.10	2.25	2.29	2.36	.023	.025	.019	.005	.96	.93	.95	.96	3,185	3,754	1,956	.000	.000	.000	-.15	-.20	-.28
b. SFotherwork	1,756	1.73	1.83	1.86	1.94	.023	.025	.019	.006	.95	.96	.97	1.02	3,178	4,315	1,982	.003	.000	.000	-.10	-.14	-.21
c. SFdiscuss	1,753	2.06	2.27	2.29	2.15	.022	.024	.018	.005	.92	.90	.93	.94	3,174	3,807	1,958	.000	.000	.000	-.23	-.25	-.10
d. SFperform	1,749	1.90	1.95	2.03	2.12	.021	.023	.018	.005	.90	.87	.88	.91	3,062	3,724	33,797	.101	.000	.000	-.06	-.15	-.25
4 a. memorize	1,754	2.85	2.66	2.68	2.83	.022	.025	.018	.005	.91	.93	.92	.90	3,019	3,795	33,850	.000	.000	.382	.21	.18	.02
b. HOapply	1,748	3.03	3.09	3.09	3.11	.019	.022	.016	.005	.82	.83	.81	.82	3,166	4,294	1,946	.041	.029	.000	-.07	-.07	-.09
c. HOanalyze	1,737	2.96	3.02	3.03	3.07	.021	.024	.017	.005	.88	.88	.86	.85	3,145	4,272	33,626	.064	.007	.000	-.07	-.08	-.13
d. HOevaluate	1,733	2.79	2.84	2.89	2.87	.022	.025	.018	.005	.93	.95	.91	.91	3,152	3,676	1,917	.131	.000	.000	-.05	-.11	-.10
e. HOform	1,731	2.78	2.90	2.92	2.92	.021	.024	.017	.005	.89	.89	.87	.89	3,137	3,671	1,922	.000	.000	.000	-.13	-.15	-.15
5 a. ETgoals	1,748	3.01	3.07	3.13	3.16	.019	.020	.015	.004	.79	.75	.75	.77	3,171	4,309	1,936	.037	.000	.000	-.07	-.16	-.19
b. ETorganize	1,741	3.00	3.06	3.14	3.09	.018	.020	.015	.004	.75	.76	.75	.78	3,159	3,721	1,950	.014	.000	.000	-.09	-.19	-.12
c. ETexample	1,737	3.01	3.09	3.14	3.11	.020	.021	.016	.005	.82	.81	.79	.82	3,149	4,277	1,929	.005	.000	.000	-.10	-.16	-.13
d. ETdraftfb	1,743	2.38	2.43	2.55	2.66	.023	.026	.019	.005	.98	.97	.98	.98	3,155	4,284	33,646	.163	.000	.000	-.05	-.17	-.29
e. ETfeedback	1,736	2.55	2.59	2.72	2.76	.021	.023	.017	.005	.88	.88	.88	.91	3,150	4,279	33,493	.196	.000	.000	-.05	-.19	-.22

NSSE 2015 Frequencies and Statistical Comparisons

Detailed Statistics^B McMaster University

Seniors

Variable Name	N				Mean				Standard error ^h				Standard deviation ⁱ				Degrees of freedom ^j			Significance ^k			Effect size ^e		
	McMaster	McMaster	Ontario	Canada	Carnegie	McMaster	Ontario	Canada	Carnegie	McMaster	Ontario	Canada	Carnegie	Ontario	Canada	Carnegie	Ontario	Canada	Carnegie	Ontario	Canada	Carnegie			
	Comparisons with:				Comparisons with:				Comparisons with:				Comparisons with:			Comparisons with:									
6 a. QRconclude	1,753	2.57	2.53	2.52	2.72	.024	.028	.021	.005	.99	1.07	1.04	.96	2,929	3,868	1,937	.335	.159	.000	.03	.04	-.16			
b. QRproblem	1,750	2.30	2.32	2.32	2.47	.024	.027	.020	.006	.99	1.03	1.01	1.00	2,979	4,297	1,950	.595	.534	.000	-.02	-.02	-.17			
c. QRevaluate	1,742	2.38	2.45	2.41	2.51	.023	.027	.020	.005	.96	1.03	1.00	.97	2,931	3,850	33,610	.081	.469	.000	-.06	-.02	-.13			
7 a. wrshortnum	1,597	7.19	7.71	7.69	7.39	.154	.180	.135	.038	6.15	6.50	6.53	6.59	2,895	3,560	1,800	.028	.014	.223	-.08	-.08	-.03			
b. wrmednum	1,609	4.38	4.89	4.82	3.29	.116	.123	.091	.024	4.64	4.45	4.40	4.05	2,910	3,957	1,746	.003	.002	.000	-.11	-.10	.27			
c. wrlongnum	1,575	2.92	3.58	3.40	1.91	.104	.127	.092	.021	4.12	4.56	4.45	3.56	2,638	3,546	1,706	.000	.001	.000	-.15	-.11	.28			
— wrpages	1,527	97.68	112.78	109.24	75.16	2.478	2.751	1.997	.507	96.84	96.81	94.18	84.58	2,764	3,749	1,657	.000	.000	.000	-.16	-.12	.26			
8 a. DDrace	1,667	3.28	3.06	3.00	3.22	.021	.024	.019	.005	.87	.89	.92	.89	3,022	4,111	31,985	.000	.000	.012	.25	.31	.06			
b. DDeconomic	1,661	3.10	3.06	3.01	3.17	.021	.024	.018	.005	.88	.87	.89	.88	3,010	4,097	31,912	.239	.001	.002	.04	.10	-.08			
c. DDreligion	1,660	3.13	2.96	2.93	3.15	.022	.025	.019	.005	.91	.90	.92	.91	3,003	4,090	31,876	.000	.000	.396	.19	.22	-.02			
d. DDpolitical	1,652	2.96	2.94	2.90	3.08	.023	.023	.018	.005	.94	.86	.89	.91	2,951	4,072	31,729	.470	.016	.000	.03	.08	-.13			
9 a. LSreading	1,660	3.09	3.11	3.16	3.19	.021	.024	.017	.005	.84	.87	.83	.81	2,840	4,093	31,816	.531	.020	.000	-.02	-.07	-.12			
b. LSnotes	1,653	2.43	2.39	2.51	2.79	.024	.026	.020	.006	.97	.97	.99	.96	3,001	4,083	31,709	.363	.011	.000	.03	-.08	-.38			
c. LSsummary	1,643	2.62	2.64	2.70	2.81	.024	.026	.019	.005	.96	.93	.94	.93	2,873	3,462	1,816	.574	.007	.000	-.02	-.09	-.21			
10. challenge	1,653	5.41	5.39	5.44	5.52	.028	.031	.023	.007	1.14	1.15	1.15	1.20	3,001	4,081	1,859	.778	.330	.000	.01	-.03	-.09			
11 a. intern ^l	1,652	.499	.469	.462	.554	.0123	.0136	.0101	.0029	--	--	--	--	--	--	--	.101	.019	.000	.06	.07	-.11			
b. leader ^l	1,652	.368	.515	.454	.406	.0119	.0136	.0101	.0028	--	--	--	--	--	--	--	.000	.000	.002	-.30	-.18	-.08			
c. learncom ^l	1,645	.188	.244	.228	.261	.0096	.0117	.0085	.0025	--	--	--	--	--	--	--	.000	.002	.000	-.14	-.10	-.17			
d. abroad ^l	1,643	.075	.198	.169	.171	.0065	.0109	.0076	.0022	--	--	--	--	--	--	--	.000	.000	.000	-.37	-.30	-.30			
e. research ^l	1,643	.312	.310	.276	.275	.0114	.0127	.0091	.0026	--	--	--	--	--	--	--	.890	.013	.001	.01	.08	.08			
f. capstone ^l	1,647	.493	.477	.441	.449	.0123	.0136	.0101	.0029	--	--	--	--	--	--	--	.382	.001	.001	.03	.10	.09			
12. servcourse	1,645	1.54	1.54	1.62	1.62	.015	.017	.014	.004	.61	.64	.67	.66	2,988	3,741	1,858	.925	.000	.000	.00	-.13	-.12			
13 a. Qlstudent	1,653	5.83	5.86	5.87	5.64	.030	.032	.024	.008	1.21	1.18	1.20	1.31	3,003	4,079	1,872	.576	.324	.000	-.02	-.03	.15			
b. Qladvisor	1,462	4.89	4.88	4.94	5.00	.045	.052	.039	.010	1.73	1.77	1.80	1.80	2,614	3,620	30,965	.870	.397	.014	.01	-.03	-.07			
c. Qlfaculty	1,629	5.29	5.41	5.51	5.35	.035	.037	.027	.008	1.41	1.35	1.34	1.40	2,958	4,029	31,283	.019	.000	.093	-.09	-.16	-.04			
d. Qlstaff	1,307	4.69	4.72	4.82	4.78	.048	.049	.037	.011	1.74	1.65	1.68	1.69	2,454	2,699	26,433	.638	.030	.066	-.02	-.08	-.05			
e. Qladmin	1,545	4.85	4.83	4.94	4.58	.042	.046	.034	.010	1.65	1.63	1.64	1.73	2,787	3,824	1,738	.823	.098	.000	.01	-.05	.16			
14 a. empstudy	1,576	3.20	3.21	3.16	3.14	.019	.020	.015	.005	.75	.74	.75	.78	2,880	3,932	30,193	.758	.077	.004	-.01	.06	.08			
b. SEacademic	1,562	2.71	2.91	2.91	2.88	.021	.023	.017	.005	.84	.83	.84	.86	2,766	3,331	29,998	.000	.000	.000	-.23	-.24	-.19			
c. SElearnsup	1,556	2.42	2.77	2.78	2.79	.023	.025	.019	.006	.91	.91	.92	.94	2,851	3,897	29,989	.000	.000	.000	-.39	-.39	-.39			

NSSE 2015 Frequencies and Statistical Comparisons

Detailed Statistics^B McMaster University

Seniors

Variable Name	N	Mean				Standard error ^h				Standard deviation ⁱ				Degrees of freedom ^j			Significance ^k			Effect size ^e		
	McMaster	McMaster	Ontario	Canada	Carnegie	McMaster	Ontario	Canada	Carnegie	McMaster	Ontario	Canada	Carnegie	Comparisons with:			Comparisons with:			Comparisons with:		
														Ontario	Canada	Carnegie	Ontario	Canada	Carnegie	Ontario	Canada	Carnegie
d. SEdiverse	1,566	2.37	2.23	2.30	2.58	.025	.027	.020	.006	.97	.97	.98	1.00	2,860	3,906	1,754	.000	.038	.000	.14	.07	-.21
e. SEsocial	1,556	2.81	2.94	2.89	2.90	.022	.026	.019	.005	.88	.92	.93	.90	2,846	3,894	29,957	.000	.011	.000	-.14	-.08	-.10
f. SEwellness	1,565	2.74	2.87	2.84	2.85	.023	.026	.019	.006	.93	.93	.93	.94	2,857	3,903	29,903	.000	.002	.000	-.14	-.10	-.11
g. SEnonacad	1,555	1.99	2.09	2.06	2.07	.023	.026	.020	.006	.91	.94	.95	.98	2,840	3,886	1,755	.004	.014	.000	-.11	-.08	-.09
h. SEactivities	1,556	2.57	2.67	2.66	2.81	.023	.026	.020	.006	.92	.93	.95	.94	2,841	3,884	29,806	.005	.004	.000	-.11	-.10	-.25
i. SEevents	1,554	2.28	2.35	2.36	2.42	.023	.025	.019	.006	.90	.89	.93	.95	2,834	3,401	1,750	.039	.008	.000	-.08	-.09	-.14
15 a. tmprephrs	1,562	16.35	17.44	16.49	14.82	.249	.266	.198	.054	9.85	9.56	9.58	9.02	2,779	3,896	1,709	.003	.645	.000	-.11	-.02	.17
b. tmcocurrhrs	1,546	5.16	6.58	5.57	5.17	.173	.212	.149	.040	6.79	7.57	7.19	6.77	2,600	3,862	29,731	.000	.076	.984	-.20	-.06	.00
c. tmworkonhrs	1,552	2.72	3.40	3.36	4.27	.157	.187	.137	.045	6.17	6.69	6.61	7.59	2,648	3,474	1,818	.005	.002	.000	-.11	-.10	-.21
d. tmworkoffhrs	1,553	6.13	4.19	5.69	9.60	.254	.233	.196	.072	10.00	8.29	9.42	11.99	2,818	3,194	1,808	.000	.170	.000	.21	.05	-.29
— tmworkhrs	1,538	8.71	7.38	8.90	13.74	.298	.281	.226	.076	11.70	10.00	10.84	12.73	2,795	3,121	1,743	.001	.616	.000	.12	-.02	-.40
e. tmservicehrs	1,536	3.14	2.98	2.95	3.06	.137	.144	.102	.031	5.38	5.12	4.92	5.20	2,804	3,085	29,601	.440	.284	.572	.03	.04	.01
f. tmrelaxhrs	1,540	13.21	14.71	13.67	11.82	.217	.242	.178	.050	8.53	8.66	8.57	8.30	2,817	3,848	29,674	.000	.106	.000	-.17	-.05	.17
g. tmcarehrs	1,546	2.97	1.64	2.66	4.12	.171	.156	.151	.053	6.74	5.58	7.25	8.97	2,820	3,851	1,859	.000	.173	.000	.21	.04	-.13
h. tmcommutehrs	1,559	5.66	4.13	4.33	5.44	.127	.111	.090	.032	5.00	3.98	4.32	5.39	2,841	3,003	29,825	.000	.000	.126	.33	.29	.04
16. reading	1,555	2.58	2.76	2.80	2.74	.032	.038	.027	.007	1.24	1.37	1.30	1.20	2,617	3,433	1,719	.000	.000	.000	-.14	-.17	-.13
— tmreadinghrs	1,548	6.65	7.77	7.50	6.65	.159	.196	.140	.036	6.25	7.03	6.74	6.08	2,585	3,482	29,549	.000	.000	.972	-.17	-.13	.00
17 a. pgwrite	1,555	3.04	3.07	3.09	2.94	.022	.025	.018	.006	.88	.90	.89	.93	2,844	3,886	1,753	.416	.082	.000	-.03	-.06	.11
b. pgspeak	1,545	2.91	2.95	2.97	2.87	.023	.025	.019	.006	.91	.90	.90	.96	2,827	3,274	1,736	.284	.044	.047	-.04	-.07	.05
c. pgthink	1,537	3.36	3.45	3.43	3.28	.019	.020	.015	.005	.76	.73	.73	.81	2,770	3,177	1,730	.001	.003	.000	-.13	-.10	.10
d. pganalyze	1,545	2.83	2.75	2.74	2.91	.026	.032	.023	.006	1.01	1.14	1.09	.98	2,591	3,481	1,708	.066	.011	.003	.07	.08	-.08
e. pgwork	1,555	2.57	2.67	2.72	2.88	.026	.028	.021	.006	1.03	1.01	1.00	.99	2,840	3,280	1,718	.009	.000	.000	-.10	-.14	-.31
f. pgothers	1,541	2.94	3.06	3.06	3.00	.023	.024	.018	.005	.90	.86	.87	.91	2,821	3,858	29,700	.000	.000	.009	-.14	-.14	-.07
g. pgvalues	1,548	2.63	2.66	2.73	2.69	.025	.028	.021	.006	.99	1.00	1.00	1.03	2,832	3,869	1,738	.493	.002	.029	-.03	-.10	-.05
h. pgdiverse	1,552	2.68	2.50	2.61	2.80	.025	.028	.021	.006	.99	.99	1.00	.99	2,839	3,878	29,784	.000	.026	.000	.18	.07	-.11
i. pgprobolve	1,550	2.69	2.76	2.75	2.80	.025	.027	.020	.006	.97	.98	.97	.97	2,832	3,871	29,772	.045	.046	.000	-.08	-.07	-.12
j. pgcitizen	1,546	2.53	2.61	2.65	2.61	.025	.028	.021	.006	.99	.99	.99	1.01	2,826	3,861	29,670	.025	.000	.001	-.08	-.12	-.08
18. evalexpr	1,555	3.20	3.30	3.27	3.20	.019	.021	.015	.005	.75	.74	.73	.76	2,841	3,884	29,913	.000	.003	.730	-.13	-.10	-.01
19. sameinst	1,562	3.21	3.28	3.25	3.22	.021	.023	.017	.005	.81	.83	.83	.83	2,720	3,403	29,952	.023	.104	.785	-.09	-.05	-.01

Endnotes

- a. Column percentages are weighted by institution-reported sex and enrollment status (and institution size for comparison groups). Percentages may not sum to 100 due to rounding. Counts are unweighted; column percentages cannot be replicated from counts.
- b. All statistics are weighted by institution-reported sex and enrollment status (and institution size for comparison groups). Means calculated from ordered response options (e.g., Very often, Often, Sometimes, Never) assume equal intervals and should be interpreted with caution. Unless otherwise noted, statistical comparisons are two-tailed independent t -tests. Exceptions are the dichotomous High-Impact Practice items (11a to 11f) which are compared using a z -test.
- c. Items which make up the Engagement Indicators include the following two-letter prefixes: CL = Collaborative Learning, DD = Discussions with Diverse Others, ET = Effective Teaching Practices, HO = Higher-Order Learning, LS = Learning Strategies, QI = Quality of Interactions, QR = Quantitative Reasoning, RI = Reflective & Integrative Learning, SE = Supportive Environment, and SF = Student-Faculty Interaction.
- d. These are the values used to calculate means. For the majority of items, these values match the codes in the data file and codebook. For items estimating number of papers and hours per week, the values represent actual units using the midpoints of response option ranges and an estimate for unbounded options.
- e. Effect size for independent t -tests uses Cohen's d ; z -tests use Cohen's h . See page 2 for more details.
- f. Statistical comparison uses z -test to compare the percentage who responded "Done or in progress."
- g. Statistics are weighted by institution-reported sex and enrollment status (and institution size for comparison groups).
- h. Standard error of the mean for ordered and continuous variables; standard error of the proportion for items indicating "Done or in progress" (High-Impact Practices). The 95% confidence interval is equal to the sample mean plus or minus 1.96 times the standard error of the mean.
- i. A measure of the amount individual scores deviate from the mean of all the scores in the distribution.
- j. Degrees of freedom used to compute the t -tests. Values differ from N s due to weighting and whether equal variances were assumed.
- k. Statistical comparisons are two-tailed independent t -tests or z -tests. Statistical significance represents the probability that the difference between your students' mean and that of the comparison group is due to chance.
- l. Mean represents the proportion who responded "Done or in progress."



NSSE 2015

Engagement Indicators

McMaster University

About Your Engagement Indicators Report

Engagement Indicators (EIs) provide a useful summary of the detailed information contained in your students' NSSE responses. By combining responses to related NSSE questions, each EI offers valuable information about a distinct aspect of student engagement. Ten indicators, based on three to eight survey questions each (a total of 47 survey questions), are organized into four broad themes as shown at right.

Theme	Engagement Indicator
<i>Academic Challenge</i>	Higher-Order Learning
	Reflective & Integrative Learning
	Learning Strategies
	Quantitative Reasoning
<i>Learning with Peers</i>	Collaborative Learning
	Discussions with Diverse Others
<i>Experiences with Faculty</i>	Student-Faculty Interaction
	Effective Teaching Practices
<i>Campus Environment</i>	Quality of Interactions
	Supportive Environment

Report Sections

- Overview (p. 3)** Displays how average EI scores for your first-year and senior students compare with those of students at your comparison group institutions.
- Theme Reports (pp. 4-13)** Detailed views of EI scores within the four themes for your students and those at comparison group institutions. Three views offer varied insights into your EI scores:

 - Mean Comparisons**
Straightforward comparisons of average scores between your students and those at comparison group institutions, with tests of significance and effect sizes (see below).
 - Score Distributions**
Box-and-whisker charts show the variation in scores *within* your institution and comparison groups.
 - Summary of Indicator Items**
Responses to each item in a given EI are summarized for your institution and comparison groups.
- Comparisons with High-Performing Institutions (p. 15)** Comparisons of your students' average scores on each EI with those of students at institutions whose average scores were in the top 50% and top 10% of 2014 and 2015 participating institutions.
- Detailed Statistics (pp. 16-19)** Detailed information about EI score means, distributions, and tests of statistical significance.

Interpreting Comparisons

Mean comparisons report both statistical significance and effect size. Effect size indicates the practical importance of an observed difference. For EI comparisons, NSSE research has concluded that an effect size of about .1 may be considered small, .3 medium, and .5 large (Rocconi & Gonyea, 2015). Comparisons with an effect size of at least .3 in magnitude (before rounding) are highlighted in the Overview (p. 3).

EIs vary more among students within an institution than between institutions, like many experiences and outcomes in higher education. As a result, focusing attention on average scores alone amounts to examining the tip of the iceberg. It's equally important to understand how student engagement varies within your institution. Score distributions indicate how EI scores vary among your students and those in your comparison groups. The Report Builder—Institution Version and your *Major Field*

How Engagement Indicators are Computed

Each EI is scored on a 60-point scale. To produce an indicator score, the response set for each item is converted to a 60-point scale (e.g., Never = 0; Sometimes = 20; Often = 40; Very often = 60), and the rescaled items are averaged. Thus a score of zero means a student responded at the bottom of the scale for every item in the EI, while a score of 60 indicates responses at the top of the scale on every item.

For more information on EIs and their psychometric properties, refer to the NSSE website: nsse.indiana.edu

Engagement Indicators: Overview

Engagement Indicators are summary measures based on sets of NSSE questions examining key dimensions of student engagement. The ten indicators are organized within four broad themes: Academic Challenge, Learning with Peers, Experiences with Faculty, and Campus Environment. The tables below compare average scores for your students with those in your comparison groups.

Use the following key:

- ▲ **Your students' average** was significantly higher ($p < .05$) with an effect size at least .3 in magnitude.
- △ **Your students' average** was significantly higher ($p < .05$) with an effect size less than .3 in magnitude.
- No significant difference.
- ▽ **Your students' average** was significantly lower ($p < .05$) with an effect size less than .3 in magnitude.
- ▼ **Your students' average** was significantly lower ($p < .05$) with an effect size at least .3 in magnitude.

First-Year Students

Theme	Engagement Indicator	Your first-year students	Your first-year students	Your first-year students
		compared with	compared with	compared with
		Ontario	Canada	Carnegie
Academic Challenge	Higher-Order Learning	--	--	▼
	Reflective & Integrative Learning	--	--	--
	Learning Strategies	--	--	▼
	Quantitative Reasoning	--	△	▼
Learning with Peers	Collaborative Learning	--	--	△
	Discussions with Diverse Others	△	▲	--
Experiences with Faculty	Student-Faculty Interaction	▼	▼	▼
	Effective Teaching Practices	▼	▼	▼
Campus Environment	Quality of Interactions	▼	▼	--
	Supportive Environment	▼	▼	▼

Seniors

Theme	Engagement Indicator	Your seniors	Your seniors	Your seniors
		compared with	compared with	compared with
		Ontario	Canada	Carnegie
Academic Challenge	Higher-Order Learning	▼	▼	▼
	Reflective & Integrative Learning	▼	▼	▼
	Learning Strategies	--	▼	▼
	Quantitative Reasoning	--	--	▼
Learning with Peers	Collaborative Learning	▼	▼	△
	Discussions with Diverse Others	△	△	--
Experiences with Faculty	Student-Faculty Interaction	▼	▼	▼
	Effective Teaching Practices	▼	▼	▼
Campus Environment	Quality of Interactions	--	▼	--
	Supportive Environment	▼	▼	▼

Academic Challenge: First-year students

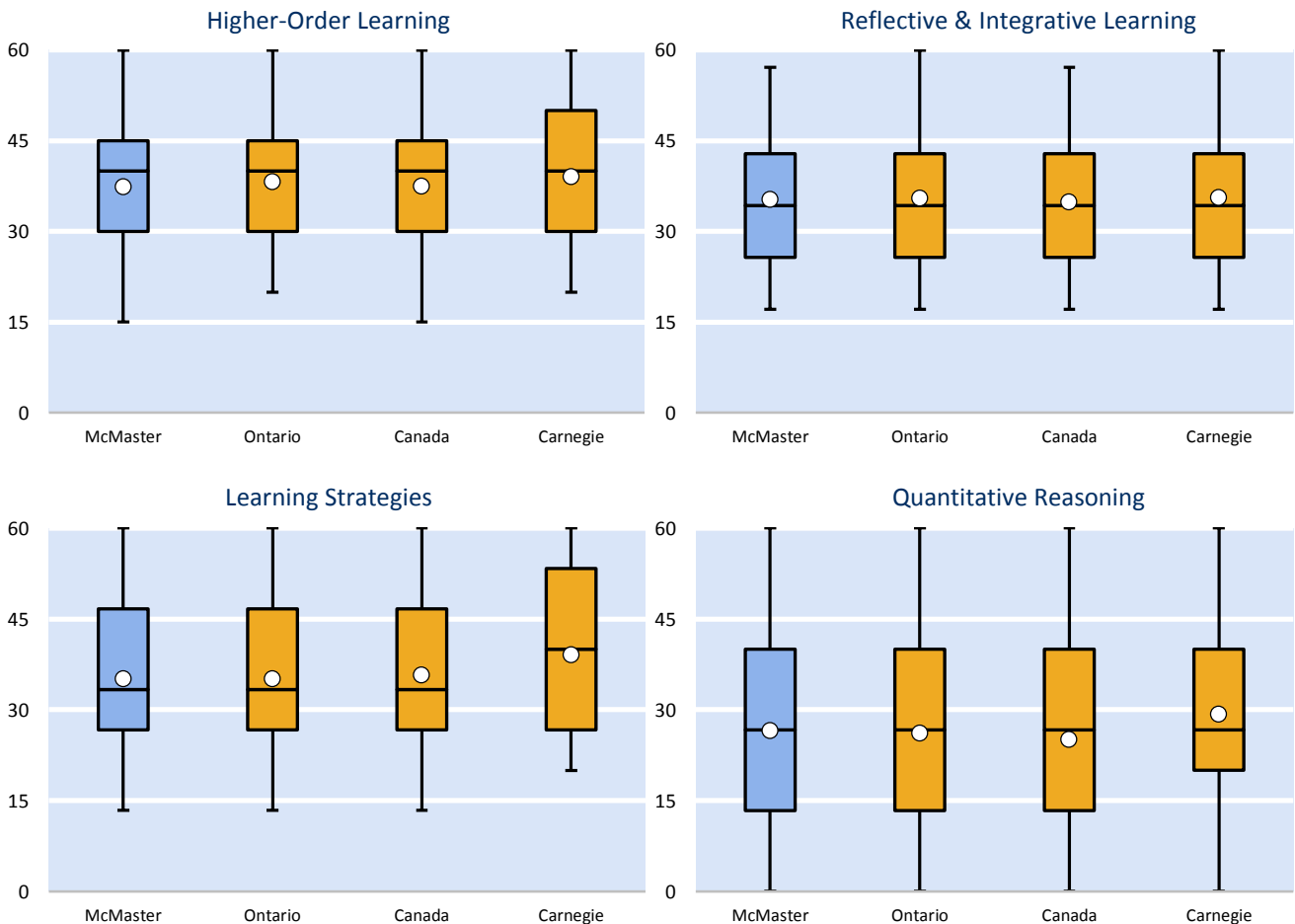
Challenging intellectual and creative work is central to student learning and collegiate quality. Colleges and universities promote student learning by challenging and supporting them to engage in various forms of deep learning. Four Engagement Indicators are part of this theme: *Higher-Order Learning*, *Reflective & Integrative Learning*, *Learning Strategies*, and *Quantitative Reasoning*. Below and on the next page are three views of your results alongside those of your comparison groups.

Mean Comparisons

Engagement Indicator	McMaster Mean	Your first-year students compared with					
		Ontario		Canada		Carnegie	
		Mean	Effect size	Mean	Effect size	Mean	Effect size
Higher-Order Learning	37.4	38.2	-.06	37.4	-.01	39.0 ***	-.12
Reflective & Integrative Learning	35.2	35.5	-.02	34.8	.03	35.6	-.03
Learning Strategies	35.1	35.0	.01	35.7	-.04	39.0 ***	-.28
Quantitative Reasoning	26.5	26.0	.03	25.0 **	.09	29.2 ***	-.17

Notes: Results weighted by institution-reported sex and enrollment status (and institution size for comparison groups); Effect size: Mean difference divided by pooled standard deviation; Symbols on the Overview page are based on effect size and p before rounding; * $p < .05$, ** $p < .01$, *** $p < .001$ (2-tailed).





































































Score Distributions



Notes: Each box-and-whiskers chart plots the 5th (bottom of lower bar), 25th (bottom of box), 50th (middle line), 75th (top of box), and 95th (top of upper bar) percentile scores. The dot represents the mean score. Refer to Detailed Statistics for your institution's sample sizes.

Academic Challenge: First-year students (continued)

Summary of Indicator Items

	McMaster	Ontario	Canada	Carnegie
Higher-Order Learning				
<i>Percentage responding "Very much" or "Quite a bit" about how much coursework emphasized...</i>				
	%	%	%	%
4b. Applying facts, theories, or methods to practical problems or new situations	79 	78 	75 	74 
4c. Analyzing an idea, experience, or line of reasoning in depth by examining its parts	68 	72 	69 	73 
4d. Evaluating a point of view, decision, or information source	57 	60 	61 	68 
4e. Forming a new idea or understanding from various pieces of information	60 	67 	64 	68 
Reflective & Integrative Learning				
<i>Percentage of students who responded that they "Very often" or "Often" ...</i>				
2a. Combined ideas from different courses when completing assignments	60 	63 	59 	57 
2b. Connected your learning to societal problems or issues	54 	54 	52 	54 
2c. Included diverse perspectives (political, religious, racial/ethnic, gender, etc.) in course discussions or assignments	42 	43 	43 	50 
2d. Examined the strengths and weaknesses of your own views on a topic or issue	56 	58 	56 	62 
2e. Tried to better understand someone else's views by imagining how an issue looks from his or her perspective	64 	62 	62 	67 
2f. Learned something that changed the way you understand an issue or concept	71 	68 	68 	66 
2g. Connected ideas from your courses to your prior experiences and knowledge	81 	81 	79 	77 
Learning Strategies				
<i>Percentage of students who responded that they "Very often" or "Often" ...</i>				
9a. Identified key information from reading assignments	74 	75 	75 	80 
9b. Reviewed your notes after class	48 	47 	51 	64 
9c. Summarized what you learned in class or from course materials	55 	55 	57 	63 
Quantitative Reasoning				
<i>Percentage of students who responded that they "Very often" or "Often" ...</i>				
6a. Reached conclusions based on your own analysis of numerical information (numbers, graphs, statistics, etc.)	46 	48 	46 	56 
6b. Used numerical information to examine a real-world problem or issue (unemployment, climate change, public health, etc.)	37 	36 	34 	42 
6c. Evaluated what others have concluded from numerical information	39 	37 	34 	42 

Notes: Refer to your *Frequencies and Statistical Comparisons* report for full distributions and significance tests. Item numbering corresponds to the survey facsimile included in your *Institutional Report* and available on the NSSE website.

Academic Challenge: Seniors

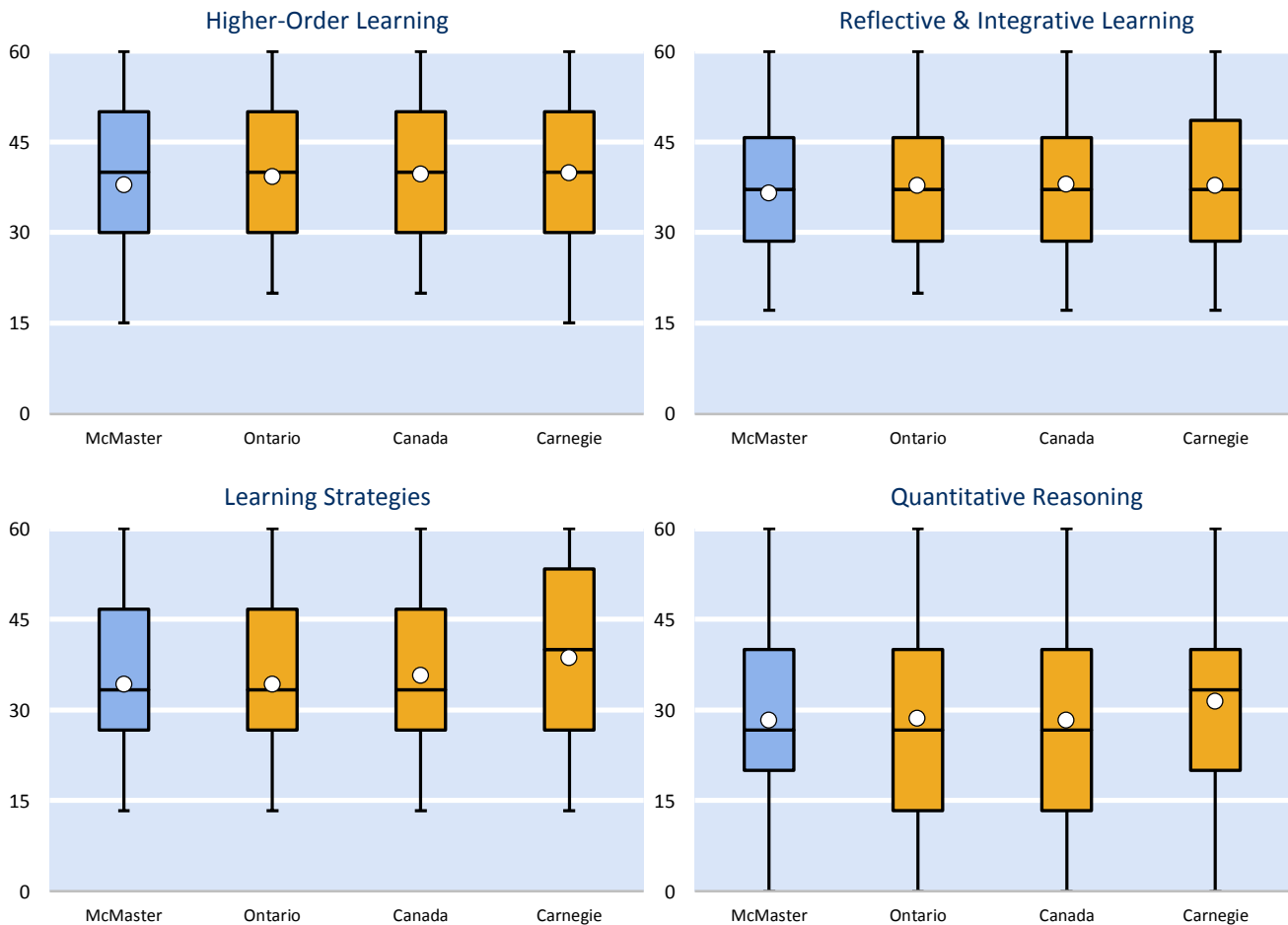
Challenging intellectual and creative work is central to student learning and collegiate quality. Colleges and universities promote student learning by challenging and supporting them to engage in various forms of deep learning. Four Engagement Indicators are part of this theme: *Higher-Order Learning*, *Reflective & Integrative Learning*, *Learning Strategies*, and *Quantitative Reasoning*. Below and on the next page are three views of your results alongside those of your comparison groups.

Mean Comparisons

Engagement Indicator	McMaster Mean	Your seniors compared with					
		Ontario		Canada		Carnegie	
		Mean	Effect size	Mean	Effect size	Mean	Effect size
Higher-Order Learning	37.8	39.3 **	-.10	39.6 ***	-.13	39.9 ***	-.14
Reflective & Integrative Learning	36.6	37.7 **	-.09	38.0 ***	-.11	37.8 ***	-.09
Learning Strategies	34.3	34.3	.00	35.7 **	-.10	38.6 ***	-.29
Quantitative Reasoning	28.3	28.6	-.02	28.3	.00	31.4 ***	-.18

Notes: Results weighted by institution-reported sex and enrollment status (and institution size for comparison groups); Effect size: Mean difference divided by pooled standard deviation; Symbols on the Overview page are based on effect size and *p* before rounding; **p* < .05, ***p* < .01, ****p* < .001 (2-tailed).





































Score Distributions



Notes: Each box-and-whiskers chart plots the 5th (bottom of lower bar), 25th (bottom of box), 50th (middle line), 75th (top of box), and 95th (top of upper bar) percentile scores. The dot represents the mean score. Refer to Detailed Statistics for your institution's sample sizes.

Academic Challenge: Seniors (continued)

Summary of Indicator Items

	McMaster	Ontario	Canada	Carnegie
Higher-Order Learning				
<i>Percentage responding "Very much" or "Quite a bit" about how much coursework emphasized...</i>				
	%	%	%	%
4b. Applying facts, theories, or methods to practical problems or new situations	75 	77 	78 	78 
4c. Analyzing an idea, experience, or line of reasoning in depth by examining its parts	71 	73 	74 	75 
4d. Evaluating a point of view, decision, or information source	62 	65 	68 	67 
4e. Forming a new idea or understanding from various pieces of information	62 	68 	69 	69 
Reflective & Integrative Learning				
<i>Percentage of students who responded that they "Very often" or "Often" ...</i>				
2a. Combined ideas from different courses when completing assignments	70 	73 	73 	72 
2b. Connected your learning to societal problems or issues	58 	60 	62 	60 
2c. Included diverse perspectives (political, religious, racial/ethnic, gender, etc.) in course discussions or assignments	45 	50 	50 	50 
2d. Examined the strengths and weaknesses of your own views on a topic or issue	59 	62 	63 	63 
2e. Tried to better understand someone else's views by imagining how an issue looks from his or her perspective	66 	67 	67 	68 
2f. Learned something that changed the way you understand an issue or concept	70 	75 	74 	69 
2g. Connected ideas from your courses to your prior experiences and knowledge	80 	84 	84 	81 
Learning Strategies				
<i>Percentage of students who responded that they "Very often" or "Often" ...</i>				
9a. Identified key information from reading assignments	77 	77 	79 	80 
9b. Reviewed your notes after class	43 	42 	46 	59 
9c. Summarized what you learned in class or from course materials	52 	55 	57 	61 
Quantitative Reasoning				
<i>Percentage of students who responded that they "Very often" or "Often" ...</i>				
6a. Reached conclusions based on your own analysis of numerical information (numbers, graphs, statistics, etc.)	53 	49 	50 	58 
6b. Used numerical information to examine a real-world problem or issue (unemployment, climate change, public health, etc.)	39 	40 	41 	47 
6c. Evaluated what others have concluded from numerical information	43 	46 	45 	48 

Notes: Refer to your *Frequencies and Statistical Comparisons* report for full distributions and significance tests. Item numbering corresponds to the survey facsimile included in your *Institutional Report* and available on the NSSE website.

Learning with Peers: First-year students

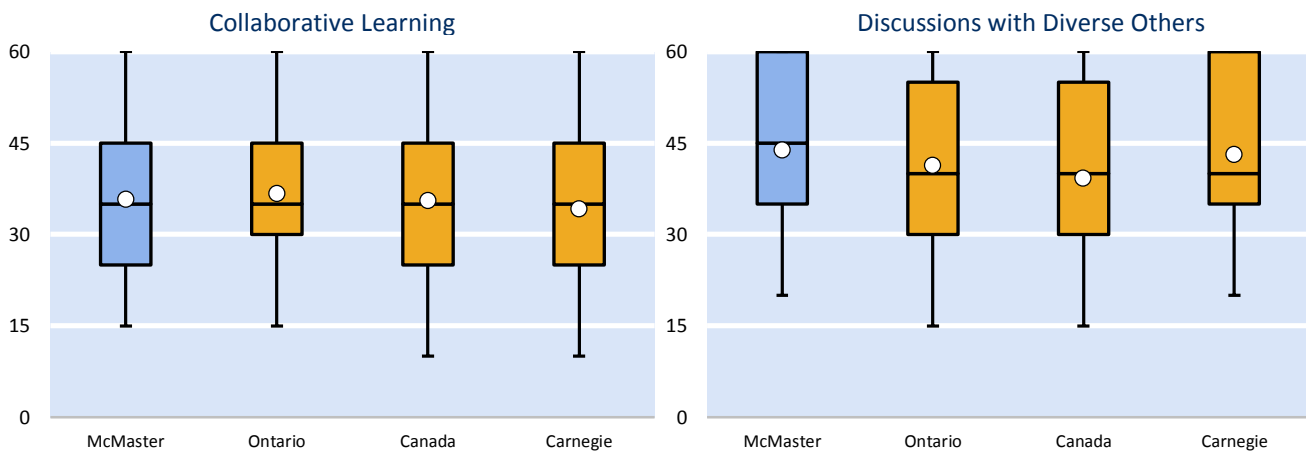
Collaborating with others in mastering difficult material and developing interpersonal and social competence prepare students to deal with complex, unscripted problems they will encounter during and after college. Two Engagement Indicators make up this theme: *Collaborative Learning* and *Discussions with Diverse Others*. Below are three views of your results alongside those of your comparison groups.

Mean Comparisons

Engagement Indicator	McMaster Mean	Your first-year students compared with					
		Ontario		Canada		Carnegie	
		Mean	Effect size	Mean	Effect size	Mean	Effect size
Collaborative Learning	35.7	36.6	-.06	35.5	.02	34.2 ***	.11
Discussions with Diverse Others	43.9	41.3 ***	.17	39.2 ***	.30	43.0	.05

Notes: Results weighted by institution-reported sex and enrollment status (and institution size for comparison groups); Effect size: Mean difference divided by pooled standard deviation; Symbols on the Overview page are based on effect size and *p* before rounding: **p* < .05, ***p* < .01, ****p* < .001 (2-tailed).

Score Distributions



Notes: Each box-and-whiskers chart plots the 5th (bottom of lower bar), 25th (bottom of box), 50th (middle line), 75th (top of box), and 95th (top of upper bar) percentile scores. The dot represents the mean score. Refer to Detailed Statistics for your institution's sample sizes.

Summary of Indicator Items

Collaborative Learning

Percentage of students who responded that they "Very often" or "Often" ...

	McMaster	Ontario	Canada	Carnegie
1e. Asked another student to help you understand course material	59	60	58	56
1f. Explained course material to one or more students	66	68	64	62
1g. Prepared for exams by discussing or working through course material with other students	57	60	58	55
1h. Worked with other students on course projects or assignments	61	65	62	54

Discussions with Diverse Others

Percentage of students who responded that they "Very often" or "Often" had discussions with ...

	McMaster	Ontario	Canada	Carnegie
8a. People from a race or ethnicity other than your own	84	76	70	78
8b. People from an economic background other than your own	76	74	70	77
8c. People with religious beliefs other than your own	80	71	66	75
8d. People with political views other than your own	68	68	63	72

Notes: Refer to your *Frequencies and Statistical Comparisons* report for full distributions and significance tests. Item numbering corresponds to the survey facsimile included in your *Institutional Report* and available on the NSSE website.

Learning with Peers: Seniors

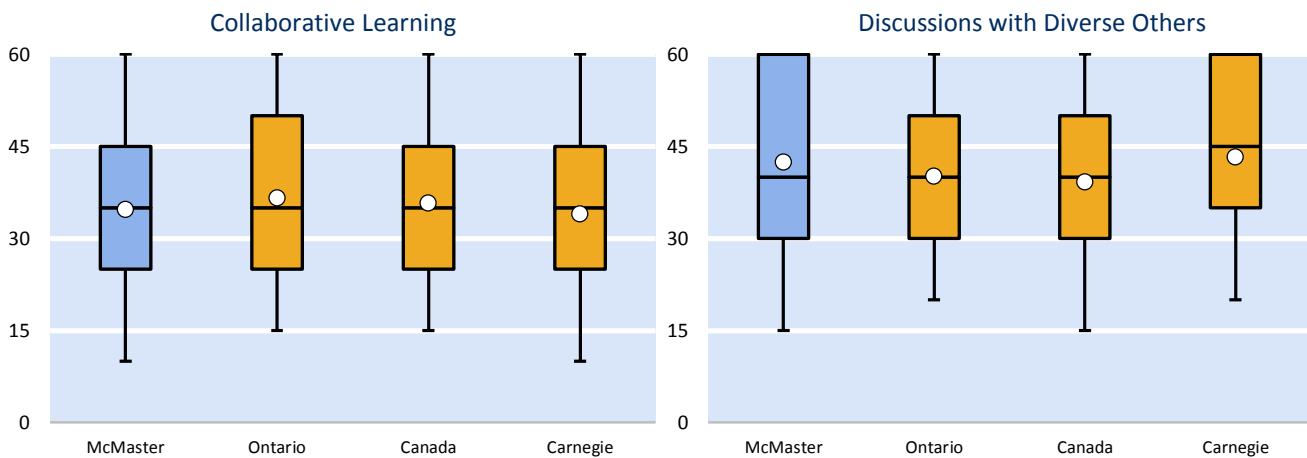
Collaborating with others in mastering difficult material and developing interpersonal and social competence prepare students to deal with complex, unscripted problems they will encounter during and after college. Two Engagement Indicators make up this theme: *Collaborative Learning* and *Discussions with Diverse Others*. Below are three views of your results alongside those of your comparison groups.

Mean Comparisons

Engagement Indicator	McMaster Mean	Your seniors compared with					
		Ontario		Canada		Carnegie	
		Mean	Effect size	Mean	Effect size	Mean	Effect size
Collaborative Learning	34.7	36.5 ***	-.13	35.7 *	-.07	33.9 *	.05
Discussions with Diverse Others	42.4	40.1 ***	.15	39.2 ***	.21	43.2	-.05

Notes: Results weighted by institution-reported sex and enrollment status (and institution size for comparison groups); Effect size: Mean difference divided by pooled standard deviation; Symbols on the Overview page are based on effect size and *p* before rounding: **p* < .05, ***p* < .01, ****p* < .001 (2-tailed).

Score Distributions



Notes: Each box-and-whiskers chart plots the 5th (bottom of lower bar), 25th (bottom of box), 50th (middle line), 75th (top of box), and 95th (top of upper bar) percentile scores. The dot represents the mean score. Refer to Detailed Statistics for your institution's sample sizes.

Summary of Indicator Items

Collaborative Learning

Percentage of students who responded that they "Very often" or "Often" ...

	McMaster	Ontario	Canada	Carnegie
1e. Asked another student to help you understand course material	48	51	47	45
1f. Explained course material to one or more students	62	65	64	61
1g. Prepared for exams by discussing or working through course material with other students	52	58	57	50
1h. Worked with other students on course projects or assignments	69	69	68	66

Discussions with Diverse Others

Percentage of students who responded that they "Very often" or "Often" had discussions with ...

	McMaster	Ontario	Canada	Carnegie
8a. People from a race or ethnicity other than your own	80	70	67	77
8b. People from an economic background other than your own	73	73	70	77
8c. People with religious beliefs other than your own	74	66	65	75
8d. People with political views other than your own	67	67	65	72

Notes: Refer to your *Frequencies and Statistical Comparisons* report for full distributions and significance tests. Item numbering corresponds to the survey facsimile included in your *Institutional Report* and available on the NSSE website.

Experiences with Faculty: First-year students

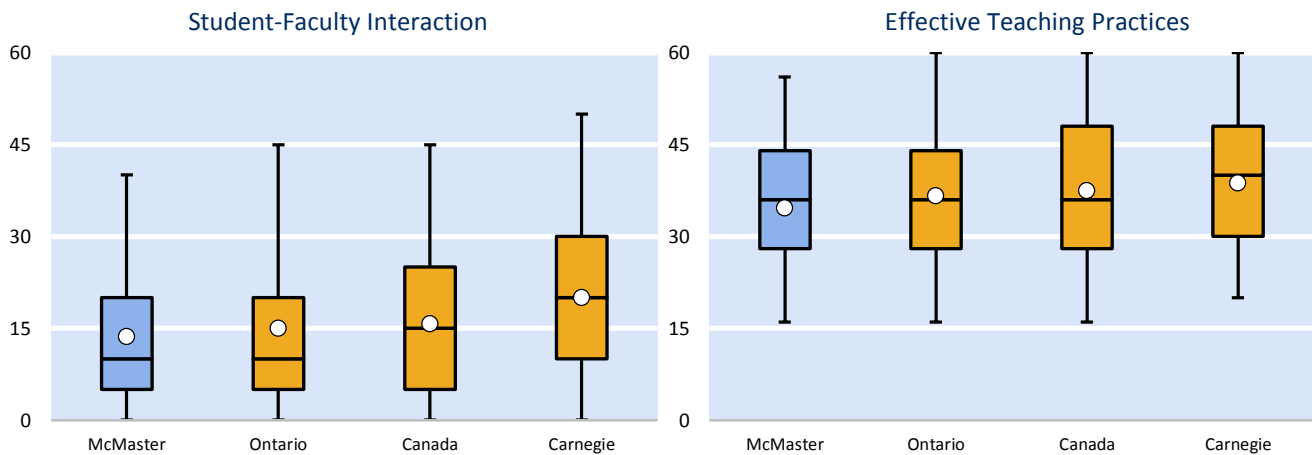
Students learn firsthand how experts think about and solve problems by interacting with faculty members inside and outside of instructional settings. As a result, faculty become role models, mentors, and guides for lifelong learning. In addition, effective teaching requires that faculty deliver course material and provide feedback in student-centered ways. Two Engagement Indicators investigate this theme: *Student-Faculty Interaction* and *Effective Teaching Practices*. Below are three views of your results alongside those of your comparison groups.

Mean Comparisons

Engagement Indicator	McMaster Mean	Your first-year students compared with					
		Ontario		Canada		Carnegie	
		Mean	Effect size	Mean	Effect size	Mean	Effect size
Student-Faculty Interaction	13.7	15.1 **	-.10	15.8 ***	-.15	20.1 ***	-.44
Effective Teaching Practices	34.7	36.7 ***	-.16	37.5 ***	-.22	38.7 ***	-.32

Notes: Results weighted by institution-reported sex and enrollment status (and institution size for comparison groups); Effect size: Mean difference divided by pooled standard deviation; Symbols on the Overview page are based on effect size and p before rounding; * $p < .05$, ** $p < .01$, *** $p < .001$ (2-tailed).

Score Distributions



Notes: Each box-and-whiskers chart plots the 5th (bottom of lower bar), 25th (bottom of box), 50th (middle line), 75th (top of box), and 95th (top of upper bar) percentile scores. The dot represents the mean score. Refer to Detailed Statistics for your institution's sample sizes.

Summary of Indicator Items

Student-Faculty Interaction

Percentage of students who responded that they "Very often" or "Often" ...

	McMaster	Ontario	Canada	Carnegie
3a. Talked about career plans with a faculty member	18	18	21	32
3b. Worked w/faculty on activities other than coursework (committees, student groups, etc.)	12	13	12	20
3c. Discussed course topics, ideas, or concepts with a faculty member outside of class	20	20	22	24
3d. Discussed your academic performance with a faculty member	15	16	18	27

Effective Teaching Practices

Percentage responding "Very much" or "Quite a bit" about how much instructors have...

	McMaster	Ontario	Canada	Carnegie
5a. Clearly explained course goals and requirements	75	78	79	80
5b. Taught course sessions in an organized way	77	79	80	79
5c. Used examples or illustrations to explain difficult points	76	78	78	77
5d. Provided feedback on a draft or work in progress	36	46	49	60
5e. Provided prompt and detailed feedback on tests or completed assignments	42	50	55	56

Notes: Refer to your *Frequencies and Statistical Comparisons* report for full distributions and significance tests. Item numbering corresponds to the survey facsimile included in your *Institutional Report* and available on the NSSE website.

Experiences with Faculty: Seniors

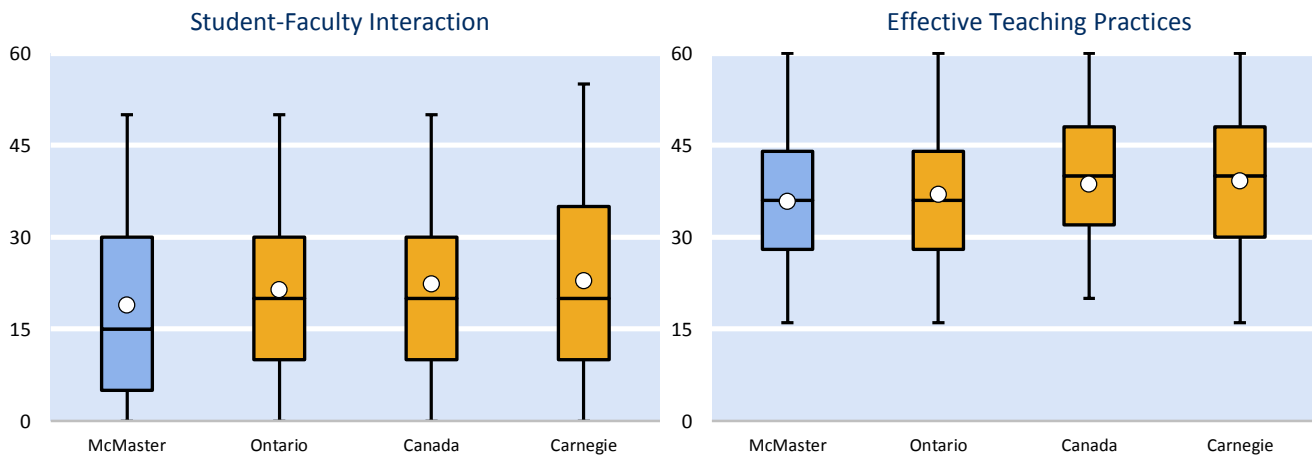
Students learn firsthand how experts think about and solve problems by interacting with faculty members inside and outside of instructional settings. As a result, faculty become role models, mentors, and guides for lifelong learning. In addition, effective teaching requires that faculty deliver course material and provide feedback in student-centered ways. Two Engagement Indicators investigate this theme: *Student-Faculty Interaction* and *Effective Teaching Practices*. Below are three views of your results alongside those of your comparison groups.

Mean Comparisons

Engagement Indicator	McMaster Mean	Your seniors compared with					
		Ontario		Canada		Carnegie	
		Mean	Effect size	Mean	Effect size	Mean	Effect size
Student-Faculty Interaction	18.9	21.4 ***	-.17	22.4 ***	-.23	22.9 ***	-.25
Effective Teaching Practices	35.8	37.0 **	-.09	38.7 ***	-.23	39.1 ***	-.25

Notes: Results weighted by institution-reported sex and enrollment status (and institution size for comparison groups); Effect size: Mean difference divided by pooled standard deviation; Symbols on the Overview page are based on effect size and p before rounding; * $p < .05$, ** $p < .01$, *** $p < .001$ (2-tailed).

Score Distributions



Notes: Each box-and-whiskers chart plots the 5th (bottom of lower bar), 25th (bottom of box), 50th (middle line), 75th (top of box), and 95th (top of upper bar) percentile scores. The dot represents the mean score. Refer to Detailed Statistics for your institution's sample sizes.

Summary of Indicator Items

Student-Faculty Interaction

Percentage of students who responded that they "Very often" or "Often" ...

	McMaster	Ontario	Canada	Carnegie
3a. Talked about career plans with a faculty member	30	34	37	39
3b. Worked w/faculty on activities other than coursework (committees, student groups, etc.)	20	22	23	27
3c. Discussed course topics, ideas, or concepts with a faculty member outside of class	28	34	36	31
3d. Discussed your academic performance with a faculty member	22	22	25	29

Effective Teaching Practices

Percentage responding "Very much" or "Quite a bit" about how much instructors have...

	McMaster	Ontario	Canada	Carnegie
5a. Clearly explained course goals and requirements	75	80	82	81
5b. Taught course sessions in an organized way	76	80	82	79
5c. Used examples or illustrations to explain difficult points	74	78	80	78
5d. Provided feedback on a draft or work in progress	43	45	51	56
5e. Provided prompt and detailed feedback on tests or completed assignments	52	54	59	61

Notes: Refer to your *Frequencies and Statistical Comparisons* report for full distributions and significance tests. Item numbering corresponds to the survey facsimile included in your *Institutional Report* and available on the NSSE website.

Campus Environment: First-year students

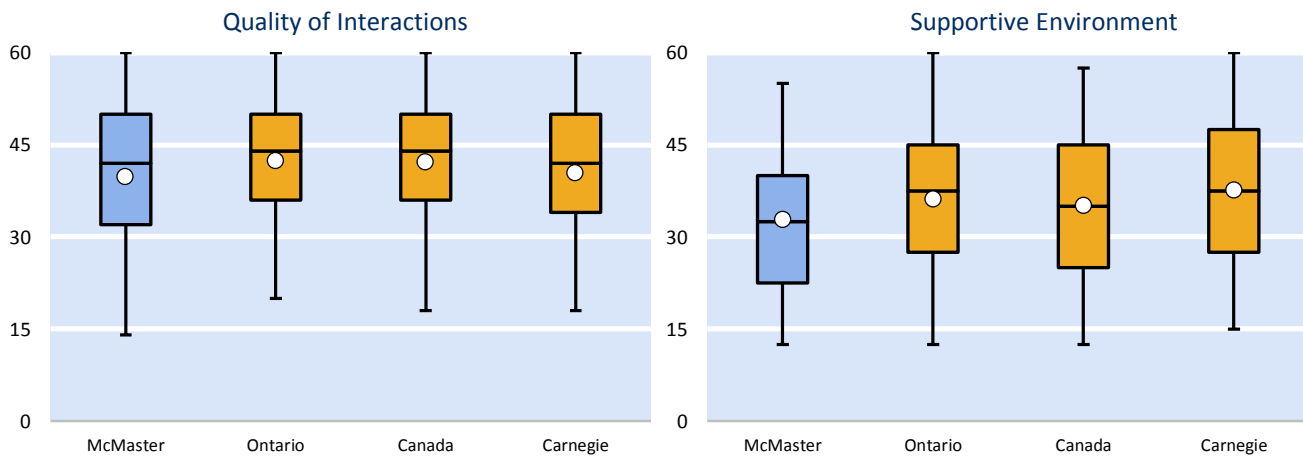
Students benefit and are more satisfied in supportive settings that cultivate positive relationships among students, faculty, and staff. Two Engagement Indicators investigate this theme: *Quality of Interactions* and *Supportive Environment*. Below are three views of your results alongside those of your comparison groups.

Mean Comparisons

Engagement Indicator	McMaster Mean	Your first-year students compared with					
		Ontario		Canada		Carnegie	
		Mean	Effect size	Mean	Effect size	Mean	Effect size
Quality of Interactions	39.9	42.4 ***	-.21	42.2 ***	-.19	40.5	-.05
Supportive Environment	32.9	36.2 ***	-.25	35.2 ***	-.17	37.6 ***	-.36

Notes: Results weighted by institution-reported sex and enrollment status (and institution size for comparison groups); Effect size: Mean difference divided by pooled standard deviation; Symbols on the Overview page are based on effect size and *p* before rounding; **p* < .05, ***p* < .01, ****p* < .001 (2-tailed).

Score Distributions



Notes: Each box-and-whiskers chart plots the 5th (bottom of lower bar), 25th (bottom of box), 50th (middle line), 75th (top of box), and 95th (top of upper bar) percentile scores. The dot represents the mean score. Refer to Detailed Statistics for your institution's sample sizes.

Summary of Indicator Items

Quality of Interactions

Percentage rating a 6 or 7 on a scale from 1="Poor" to 7="Excellent" their interactions with...

	McMaster	Ontario	Canada	Carnegie
13a. Students	66	69	65	57
13b. Academic advisors	42	46	46	46
13c. Faculty	43	50	51	44
13d. Student services staff (career services, student activities, housing, etc.)	41	49	48	41
13e. Other administrative staff and offices (registrar, financial aid, etc.)	39	43	45	35

Supportive Environment

Percentage responding "Very much" or "Quite a bit" about how much the institution emphasized...

	McMaster	Ontario	Canada	Carnegie
14b. Providing support to help students succeed academically	73	78	76	77
14c. Using learning support services (tutoring services, writing center, etc.)	63	76	74	77
14d. Encouraging contact among students from diff. backgrounds (soc., racial/eth., relig., etc.)	48	54	53	61
14e. Providing opportunities to be involved socially	68	74	70	75
14f. Providing support for your overall well-being (recreation, health care, counseling, etc.)	68	75	71	75
14g. Helping you manage your non-academic responsibilities (work, family, etc.)	32	45	41	44
14h. Attending campus activities and events (performing arts, athletic events, etc.)	58	64	62	72
14i. Attending events that address important social, economic, or political issues	44	48	48	54

Notes: Refer to your *Frequencies and Statistical Comparisons* report for full distributions and significance tests. Item numbering corresponds to the survey facsimile included in your *Institutional Report* and available on the NSSE website.

Campus Environment: Seniors

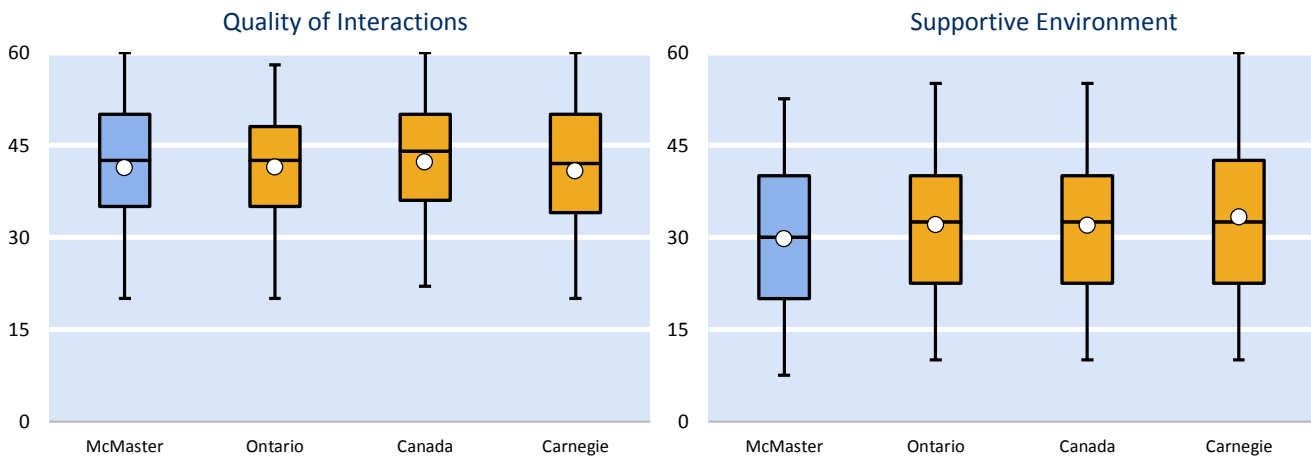
Students benefit and are more satisfied in supportive settings that cultivate positive relationships among students, faculty, and staff. Two Engagement Indicators investigate this theme: *Quality of Interactions* and *Supportive Environment*. Below are three views of your results alongside those of your comparison groups.

Mean Comparisons

Engagement Indicator	McMaster Mean	Your seniors compared with					
		Ontario		Canada		Carnegie	
		Mean	Effect size	Mean	Effect size	Mean	Effect size
Quality of Interactions	41.3	41.4	-.01	42.3 *	-.08	40.8	.04
Supportive Environment	29.7	32.0 ***	-.18	32.0 ***	-.17	33.3 ***	-.25

Notes: Results weighted by institution-reported sex and enrollment status (and institution size for comparison groups); Effect size: Mean difference divided by pooled standard deviation; Symbols on the Overview page are based on effect size and *p* before rounding; **p* < .05, ***p* < .01, ****p* < .001 (2-tailed).

Score Distributions



Notes: Each box-and-whiskers chart plots the 5th (bottom of lower bar), 25th (bottom of box), 50th (middle line), 75th (top of box), and 95th (top of upper bar) percentile scores. The dot represents the mean score. Refer to Detailed Statistics for your institution's sample sizes.

Summary of Indicator Items

Quality of Interactions

Percentage rating a 6 or 7 on a scale from 1="Poor" to 7="Excellent" their interactions with...

	McMaster	Ontario	Canada	Carnegie
13a. Students	69	70	69	61
13b. Academic advisors	43	43	45	47
13c. Faculty	53	55	58	52
13d. Student services staff (career services, student activities, housing, etc.)	38	36	40	38
13e. Other administrative staff and offices (registrar, financial aid, etc.)	42	39	42	33

Supportive Environment

Percentage responding "Very much" or "Quite a bit" about how much the institution emphasized...

	McMaster	Ontario	Canada	Carnegie
14b. Providing support to help students succeed academically	60	70	71	68
14c. Using learning support services (tutoring services, writing center, etc.)	46	64	63	63
14d. Encouraging contact among students from diff. backgrounds (soc., racial/eth., relig., etc.)	44	36	40	52
14e. Providing opportunities to be involved socially	65	70	67	68
14f. Providing support for your overall well-being (recreation, health care, counseling, etc.)	62	68	66	66
14g. Helping you manage your non-academic responsibilities (work, family, etc.)	27	30	29	31
14h. Attending campus activities and events (performing arts, athletic events, etc.)	53	58	57	63
14i. Attending events that address important social, economic, or political issues	39	41	42	45

Notes: Refer to your *Frequencies and Statistical Comparisons* report for full distributions and significance tests. Item numbering corresponds to the survey facsimile included in your *Institutional Report* and available on the NSSE website.

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Comparisons with Top 50% and Top 10% Institutions

While NSSE's policy is not to rank institutions (see nsse.indiana.edu/html/position_policies.cfm), the results below are designed to compare the engagement of your students with those attending two groups of institutions identified by NSSE^a for their high average levels of student engagement:

- (a) institutions with average scores placing them in the top 50% of all 2014 and 2015 NSSE institutions, and
- (b) institutions with average scores placing them in the top 10% of all 2014 and 2015 NSSE institutions.

While the average scores for most institutions are below the mean for the top 50% or top 10%, your institution may show areas of distinction where your average student was as engaged as (or even more engaged than) the typical student at high-performing institutions. A check mark (✓) signifies those comparisons where your average score was at least comparable^b to that of the high-performing group. However, the presence of a check mark does not necessarily mean that your institution was a member of that group.

It should be noted that most of the variability in student engagement is within, not between, institutions. Even "high-performing" institutions have students with engagement levels below the average for all institutions.

First-Year Students		McMaster Mean	Your first-year students compared with					
			NSSE Top 50%			NSSE Top 10%		
Theme	Engagement Indicator		Mean	Effect size	✓	Mean	Effect size	✓
Academic Challenge	Higher-Order Learning	37.4	41.0 ***	-.26		43.0 ***	-.41	
	Reflective and Integrative Learning	35.2	37.6 ***	-.19		39.6 ***	-.34	
	Learning Strategies	35.1	41.6 ***	-.46		44.4 ***	-.66	
	Quantitative Reasoning	26.5	29.4 ***	-.18		31.5 ***	-.31	
Learning with Peers	Collaborative Learning	35.7	35.1	.04	✓	37.3 ***	-.11	
	Discussions with Diverse Others	43.9	43.3	.03	✓	45.5 ***	-.11	
Experiences with Faculty	Student-Faculty Interaction	13.7	24.0 ***	-.68		27.2 ***	-.85	
	Effective Teaching Practices	34.7	42.3 ***	-.58		44.6 ***	-.75	
Campus Environment	Quality of Interactions	39.9	44.0 ***	-.35		45.8 ***	-.50	
	Supportive Environment	32.9	39.4 ***	-.49		41.3 ***	-.65	

Seniors		McMaster Mean	Your seniors compared with					
			NSSE Top 50%			NSSE Top 10%		
Theme	Engagement Indicator		Mean	Effect size	✓	Mean	Effect size	✓
Academic Challenge	Higher-Order Learning	37.8	43.5 ***	-.41		45.3 ***	-.55	
	Reflective and Integrative Learning	36.6	41.3 ***	-.37		43.1 ***	-.52	
	Learning Strategies	34.3	42.5 ***	-.56		44.8 ***	-.74	
	Quantitative Reasoning	28.3	31.8 ***	-.20		33.6 ***	-.31	
Learning with Peers	Collaborative Learning	34.7	35.7 **	-.07		38.2 ***	-.25	
	Discussions with Diverse Others	42.4	43.9 ***	-.10		45.9 ***	-.23	
Experiences with Faculty	Student-Faculty Interaction	18.9	29.8 ***	-.67		34.1 ***	-.93	
	Effective Teaching Practices	35.8	43.1 ***	-.53		45.1 ***	-.70	
Campus Environment	Quality of Interactions	41.3	45.0 ***	-.32		46.7 ***	-.46	
	Supportive Environment	29.7	36.1 ***	-.46		38.8 ***	-.66	

Notes: Results weighted by institution-reported sex and enrollment status (and institution size for comparison groups); Effect size: Mean difference divided by the pooled standard deviation; * $p < .05$, ** $p < .01$, *** $p < .001$ (2-tailed).

a. Precision-weighted means (produced by Hierarchical Linear Modeling) were used to determine the top 50% and top 10% institutions for each Engagement Indicator from all NSSE 2014 and 2015 institutions, separately for first-year and senior students. Using this method, Engagement Indicator scores of institutions with relatively large standard errors were adjusted toward the mean of all students, while those with smaller standard errors received smaller corrections. As a result, schools with less stable data—even those with high average scores—may not be among the top scorers. NSSE does not publish the names of the top 50% and top 10% institutions because of our commitment not to release institutional results and our policy against ranking institutions.

b. Check marks are assigned to comparisons that are either significant and positive, or non-significant with an effect size $> .10$.

Detailed Statistics: First-Year Students

	Mean statistics			Percentile ^d scores					Comparison results			
	Mean	SD ^b	SEM ^c	5th	25th	50th	75th	95th	Deg. of freedom ^e	Mean diff.	Sig. ^f	Effect size ^g
Academic Challenge												
Higher-Order Learning												
McMaster (N = 1370)	37.4	13.5	.37	15	30	40	45	60				
Ontario	38.2	12.8	.33	20	30	40	45	60	2,806	-.8	.088	-.064
Canada	37.4	13.0	.24	15	30	40	45	60	2,539	-.1	.852	-.006
Carnegie	39.0	13.6	.10	20	30	40	50	60	21,241	-1.6	.000	-.121
Top 50%	41.0	13.7	.04	20	30	40	50	60	116,772	-3.6	.000	-.262
Top 10%	43.0	13.8	.09	20	35	40	55	60	24,549	-5.7	.000	-.412
Reflective & Integrative Learning												
McMaster (N = 1412)	35.2	12.4	.33	17	26	34	43	57				
Ontario	35.5	12.6	.32	17	26	34	43	60	2,995	-.2	.610	-.019
Canada	34.8	12.5	.22	17	26	34	43	57	4,584	.4	.309	.033
Carnegie	35.6	12.6	.09	17	26	34	43	60	22,141	-.4	.295	-.029
Top 50%	37.6	12.7	.04	17	29	37	46	60	124,922	-2.4	.000	-.186
Top 10%	39.6	12.8	.08	20	31	40	49	60	26,138	-4.3	.000	-.340
Learning Strategies												
McMaster (N = 1298)	35.1	14.1	.39	13	27	33	47	60				
Ontario	35.0	14.1	.37	13	27	33	47	60	2,744	.1	.874	.006
Canada	35.7	14.0	.26	13	27	33	47	60	4,211	-.6	.224	-.041
Carnegie	39.0	14.1	.10	20	27	40	53	60	19,870	-3.9	.000	-.277
Top 50%	41.6	14.1	.04	20	33	40	53	60	105,042	-6.5	.000	-.461
Top 10%	44.4	14.0	.09	20	33	47	60	60	24,787	-9.3	.000	-.665
Quantitative Reasoning												
McMaster (N = 1389)	26.5	16.6	.45	0	13	27	40	60				
Ontario	26.0	16.9	.43	0	13	27	40	60	2,936	.4	.479	.026
Canada	25.0	16.6	.30	0	13	27	40	60	4,496	1.4	.008	.086
Carnegie	29.2	16.3	.11	0	20	27	40	60	21,606	-2.8	.000	-.170
Top 50%	29.4	16.6	.04	0	20	27	40	60	153,146	-2.9	.000	-.176
Top 10%	31.5	16.5	.10	0	20	33	40	60	31,436	-5.0	.000	-.305
Learning with Peers												
Collaborative Learning												
McMaster (N = 1437)	35.7	14.2	.37	15	25	35	45	60				
Ontario	36.6	13.9	.35	15	30	35	45	60	3,033	-.9	.075	-.065
Canada	35.5	14.3	.25	10	25	35	45	60	4,648	.2	.611	.016
Carnegie	34.2	14.3	.10	10	25	35	45	60	22,810	1.5	.000	.107
Top 50%	35.1	13.8	.04	15	25	35	45	60	1,465	.6	.116	.043
Top 10%	37.3	13.8	.08	15	25	35	50	60	32,048	-1.5	.000	-.111
Discussions with Diverse Others												
McMaster (N = 1291)	43.9	14.9	.42	20	35	45	60	60				
Ontario	41.3	15.1	.40	15	30	40	55	60	2,750	2.6	.000	.171
Canada	39.2	15.7	.29	15	30	40	55	60	4,223	4.7	.000	.301
Carnegie	43.0	15.3	.11	20	35	40	60	60	20,079	.8	.064	.053
Top 50%	43.3	15.4	.04	20	35	45	60	60	128,206	.5	.229	.034
Top 10%	45.5	14.8	.09	20	40	50	60	60	30,975	-1.7	.000	-.113

Detailed Statistics: First-Year Students

	Mean statistics			Percentile ^d scores					Comparison results			
	Mean	SD ^b	SEM ^c	5th	25th	50th	75th	95th	Deg. of freedom ^e	Mean diff.	Sig. ^f	Effect size ^g
Experiences with Faculty												
Student-Faculty Interaction												
McMaster (N = 1392)	13.7	13.7	.37	0	5	10	20	40				
Ontario	15.1	14.0	.36	0	5	10	20	45	2,941	-1.4	.007	-.099
Canada	15.8	13.7	.25	0	5	15	25	45	4,506	-2.1	.000	-.151
Carnegie	20.1	14.7	.10	0	10	20	30	50	1,620	-6.4	.000	-.436
Top 50%	24.0	15.2	.05	0	15	20	35	55	1,452	-10.4	.000	-.682
Top 10%	27.2	16.1	.14	5	15	25	40	60	1,810	-13.5	.000	-.852
Effective Teaching Practices												
McMaster (N = 1402)	34.7	12.5	.34	16	28	36	44	56				
Ontario	36.7	12.5	.32	16	28	36	44	60	2,957	-2.0	.000	-.160
Canada	37.5	12.5	.22	16	28	36	48	60	4,535	-2.8	.000	-.225
Carnegie	38.7	12.8	.09	20	30	40	48	60	21,816	-4.1	.000	-.319
Top 50%	42.3	13.2	.04	20	32	40	52	60	1,449	-7.7	.000	-.583
Top 10%	44.6	13.3	.10	20	36	44	56	60	1,652	-10.0	.000	-.754
Campus Environment												
Quality of Interactions												
McMaster (N = 1068)	39.9	13.0	.40	14	32	42	50	60				
Ontario	42.4	11.8	.33	20	36	44	50	60	2,173	-2.5	.000	-.206
Canada	42.2	12.0	.24	18	36	44	50	60	1,849	-2.3	.000	-.190
Carnegie	40.5	12.0	.09	18	34	42	50	60	1,178	-.7	.107	-.054
Top 50%	44.0	11.7	.04	22	38	46	52	60	1,090	-4.1	.000	-.353
Top 10%	45.8	11.9	.09	23	40	48	55	60	1,180	-6.0	.000	-.502
Supportive Environment												
McMaster (N = 1210)	32.9	13.1	.38	13	23	33	40	55				
Ontario	36.2	13.3	.36	13	28	38	45	60	2,573	-3.3	.000	-.250
Canada	35.2	13.4	.26	13	25	35	45	58	3,948	-2.3	.000	-.174
Carnegie	37.6	13.4	.10	15	28	38	48	60	18,685	-4.8	.000	-.356
Top 50%	39.4	13.4	.04	18	30	40	50	60	103,479	-6.6	.000	-.490
Top 10%	41.3	13.0	.09	20	33	40	53	60	23,525	-8.4	.000	-.647

a. Results weighted by institution-reported sex and enrollment status (and institutional size for comparison groups).

b. Standard deviation is a measure of the amount the individual scores deviate from the mean of all the scores in the distribution.

c. Standard error of the mean, used to compute a confidence interval (CI) around the sample mean. For example, the 95% CI (equal to the sample mean +/- 1.96 x SEM) is the range that is 95% likely to contain the true population mean.

d. A percentile is the point in the distribution of student-level EI scores at or below which a given percentage of EI scores fall.

e. Degrees of freedom used to compute the *t*-tests. Values vary from the total Ns due to weighting and whether equal variances were assumed.

f. Statistical significance represents the probability that the difference between the mean of your institution and that of the comparison group occurred by chance.

g. Effect size is the mean difference divided by the pooled standard deviation.

Detailed Statistics: Seniors

	Mean statistics			Percentile ^d scores					Comparison results			
	Mean	SD ^b	SEM ^c	5th	25th	50th	75th	95th	Deg. of freedom ^e	Mean diff.	Sig. ^f	Effect size ^g
Academic Challenge												
Higher-Order Learning												
McMaster (N = 1693)	37.8	14.0	.34	15	30	40	50	60				
Ontario	39.3	13.3	.36	20	30	40	50	60	3,005	-1.4	.004	-.104
Canada	39.6	13.3	.27	20	30	40	50	60	3,518	-1.8	.000	-.133
Carnegie	39.9	14.2	.08	15	30	40	50	60	32,929	-2.1	.000	-.144
Top 50%	43.5	13.8	.04	20	35	40	55	60	131,543	-5.7	.000	-.409
Top 10%	45.3	13.6	.07	20	40	45	60	60	36,575	-7.5	.000	-.549
Reflective & Integrative Learning												
McMaster (N = 1757)	36.6	12.9	.31	17	29	37	46	60				
Ontario	37.7	12.4	.33	20	29	37	46	60	3,187	-1.2	.010	-.092
Canada	38.0	12.6	.25	17	29	37	46	60	4,333	-1.4	.000	-.111
Carnegie	37.8	13.2	.07	17	29	37	49	60	1,962	-1.3	.000	-.095
Top 50%	41.3	12.7	.04	20	31	40	51	60	131,312	-4.7	.000	-.371
Top 10%	43.1	12.5	.07	20	34	43	54	60	33,852	-6.6	.000	-.523
Learning Strategies												
McMaster (N = 1633)	34.3	14.8	.37	13	27	33	47	60				
Ontario	34.3	14.5	.40	13	27	33	47	60	2,956	.0	.982	-.001
Canada	35.7	14.6	.30	13	27	33	47	60	4,028	-1.5	.002	-.101
Carnegie	38.6	14.9	.09	13	27	40	53	60	31,171	-4.4	.000	-.293
Top 50%	42.5	14.6	.04	20	33	40	60	60	165,903	-8.2	.000	-.564
Top 10%	44.8	14.2	.07	20	33	47	60	60	44,642	-10.6	.000	-.743
Quantitative Reasoning												
McMaster (N = 1738)	28.3	17.1	.41	0	20	27	40	60				
Ontario	28.6	18.3	.49	0	13	27	40	60	2,924	-.3	.634	-.017
Canada	28.3	17.8	.35	0	13	27	40	60	3,832	.0	.985	.001
Carnegie	31.4	17.3	.10	0	20	33	40	60	33,479	-3.1	.000	-.178
Top 50%	31.8	17.3	.04	0	20	33	40	60	220,612	-3.4	.000	-.198
Top 10%	33.6	16.9	.08	0	20	33	47	60	50,038	-5.3	.000	-.313
Learning with Peers												
Collaborative Learning												
McMaster (N = 1781)	34.7	14.7	.35	10	25	35	45	60				
Ontario	36.5	14.3	.38	15	25	35	50	60	3,227	-1.8	.000	-.125
Canada	35.7	14.2	.28	15	25	35	45	60	3,730	-1.0	.021	-.072
Carnegie	33.9	14.7	.08	10	25	35	45	60	35,235	.8	.032	.052
Top 50%	35.7	13.9	.03	15	25	35	45	60	1,811	-1.0	.004	-.073
Top 10%	38.2	13.7	.07	15	30	40	50	60	1,933	-3.5	.000	-.254
Discussions with Diverse Others												
McMaster (N = 1644)	42.4	15.8	.39	15	30	40	60	60				
Ontario	40.1	14.4	.40	20	30	40	50	60	2,932	2.3	.000	.152
Canada	39.2	15.2	.31	15	30	40	50	60	3,433	3.3	.000	.212
Carnegie	43.2	15.8	.09	20	35	45	60	60	31,594	-.7	.066	-.047
Top 50%	43.9	15.9	.03	20	35	45	60	60	210,326	-1.5	.000	-.095
Top 10%	45.9	15.4	.07	20	40	50	60	60	52,065	-3.5	.000	-.227

Detailed Statistics: Seniors

	Mean statistics			Percentile ^d scores					Comparison results			
	Mean	SD ^b	SEM ^c	5th	25th	50th	75th	95th	Deg. of freedom ^e	Mean diff.	Sig. ^f	Effect size ^g
Experiences with Faculty												
Student-Faculty Interaction												
McMaster (N = 1735)	18.9	15.3	.37	0	5	15	30	50				
Ontario	21.4	14.2	.38	0	10	20	30	50	3,086	-2.5	.000	-.170
Canada	22.4	14.8	.29	0	10	20	30	50	4,269	-3.4	.000	-.230
Carnegie	22.9	15.8	.09	0	10	20	35	55	1,942	-4.0	.000	-.251
Top 50%	29.8	16.2	.06	5	20	30	40	60	1,815	-10.8	.000	-.668
Top 10%	34.1	16.5	.15	5	20	35	45	60	2,340	-15.2	.000	-.925
Effective Teaching Practices												
McMaster (N = 1745)	35.8	12.8	.31	16	28	36	44	60				
Ontario	37.0	12.6	.33	16	28	36	44	60	3,165	-1.2	.009	-.093
Canada	38.7	12.7	.25	20	32	40	48	60	4,300	-2.9	.000	-.227
Carnegie	39.1	13.5	.08	16	30	40	48	60	1,963	-3.3	.000	-.246
Top 50%	43.1	13.6	.04	20	36	44	56	60	1,802	-7.3	.000	-.534
Top 10%	45.1	13.4	.09	20	36	48	60	60	2,054	-9.3	.000	-.699
Campus Environment												
Quality of Interactions												
McMaster (N = 1503)	41.3	11.5	.30	20	35	43	50	60				
Ontario	41.4	10.9	.31	20	35	43	48	58	2,676	-.1	.743	-.013
Canada	42.3	11.2	.24	22	36	44	50	60	3,750	-.9	.012	-.084
Carnegie	40.8	11.8	.07	20	34	42	50	60	29,874	.5	.129	.040
Top 50%	45.0	11.4	.03	24	38	46	54	60	112,510	-3.7	.000	-.322
Top 10%	46.7	11.8	.07	24	40	50	56	60	29,544	-5.4	.000	-.460
Supportive Environment												
McMaster (N = 1558)	29.7	13.3	.34	8	20	30	40	53				
Ontario	32.0	12.9	.36	10	23	33	40	55	2,841	-2.3	.000	-.176
Canada	32.0	13.4	.28	10	23	33	40	55	3,887	-2.3	.000	-.169
Carnegie	33.3	14.0	.08	10	23	33	43	60	1,750	-3.5	.000	-.253
Top 50%	36.1	13.9	.04	13	26	38	45	60	1,599	-6.4	.000	-.457
Top 10%	38.8	13.7	.09	15	30	40	50	60	24,829	-9.0	.000	-.660

a. Results weighted by institution-reported sex and enrollment status (and institutional size for comparison groups).

b. Standard deviation is a measure of the amount the individual scores deviate from the mean of all the scores in the distribution.

c. Standard error of the mean, used to compute a confidence interval (CI) around the sample mean. For example, the 95% CI (equal to the sample mean +/- 1.96 x SEM) is the range that is 95% likely to contain the true population mean.

d. A percentile is the point in the distribution of student-level EI scores at or below which a given percentage of EI scores fall.

e. Degrees of freedom used to compute the *t*-tests. Values vary from the total Ns due to weighting and whether equal variances were assumed.

f. Statistical significance represents the probability that the difference between the mean of your institution and that of the comparison group occurred by chance.

g. Effect size is the mean difference divided by the pooled standard deviation.