
NSSE 2017

Frequencies and Statistical Comparisons

University of Waterloo

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 2017 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.



NSSE 2017 Frequencies and Statistical Comparisons

NSSEville State University

				Frequency Distributions ^a								Statistical Comparisons ^b							
				NSSEville State		Private Doc-Granting		Carnegie UG Program		NSSE 2016 & 2017		Your seniors compared with							
Item wording or description	Variable name ^c	Values ^d	Response options	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 2 3 4	Never Sometimes Often Very often	3 135 212 280	0 20 33 46	244 4,397 5,947 5,440	2 27 37 34	54 845 1,086 889	2 29 38 31	6,952 75,222 81,724 66,983	3 33 35 29	3.3	3.0 ***	.27	3.0 ***	.35	2.9 ***	.43	
b. Used numerical information to examine a real-world problem or issue (unemployment, climate change, public health, etc.)	QRproblem	1 2 3 4	Never Sometimes Often Very often	82 267 164 113	13 42 26 19	2,369 5,959 4,548 3,072	14 37 21 21	401 1,078 1,119 61	14 34 11 21	35,490 79,495 67,348 47,208	16 34 29 21	2.5	2.5	-.04	2.6 *	-.09	2.6	-.05	
c. Evaluated what others have concluded from numerical information	QRevaluate	1 2 3 4	Never Sometimes Often Very often	25 56 384 150	4 9 63 24	778 1,666 9,147 4,267	5 11 57 27	134 262 1,586 851	5 10 57 29	12,543 28,134 128,802 58,873	6 13 56 26	3.1	3.1	.02	3.1	-.04	3.0	.06	
				630	100	16,028	100	2,874	100	230,881	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 2017 Frequencies and Statistical Comparisons

University of Waterloo

1st-Year Students

Frequency Distributions^a

Statistical Comparisons^b

Your 1st-year students compared with

Item wording or description	Variable name ^c	Values ^d	Response options	UWaterloo		U15		ON Institutions		U6		UWaterloo		U15		ON Institutions		U6	
				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	495	13	4,358	15	3,595	12	1,541	13	2.3	2.3	.03	2.4 ***	-.07	2.3	-.03	
		2	Sometimes	1,974	52	14,908	52	14,922	50	6,012	51								
		3	Often	907	24	6,427	23	7,250	25	2,735	25								
		4	Very often	379	10	2,772	10	3,412	12	1,215	11								
		Total		3,755	100	28,465	100	29,179	100	11,503	100								
b. Prepared two or more drafts of a paper or assignment before turning it in	drafts	1	Never	913	25	7,719	27	7,449	26	2,876	25	2.2	2.2	-.01	2.2	-.02	2.2	-.03	
		2	Sometimes	1,490	40	10,086	36	10,900	38	4,277	38								
		3	Often	949	25	7,067	25	7,291	25	2,895	25								
		4	Very often	372	10	3,410	12	3,332	11	1,382	12								
		Total		3,724	100	28,282	100	28,972	100	11,430	100								
c. Come to class without completing readings or assignments	unpreparedr <i>(Reverse-coded version of unprepared created by NSSE.)</i>	1	Very often	421	11	2,775	10	3,047	11	1,316	12	2.6	2.7 ***	-.08	2.7 ***	-.07	2.6	.00	
		2	Often	974	26	6,726	24	7,028	24	2,954	26								
		3	Sometimes	1,878	50	14,557	51	14,699	51	5,721	50								
		4	Never	459	12	4,267	15	4,233	15	1,437	13								
		Total		3,732	100	28,325	100	29,007	100	11,428	100								
d. Attended an art exhibit, play, or other arts performance (dance, music, etc.)	attendart	1	Never	2,035	55	15,156	53	16,524	57	5,997	53	1.6	1.7 ***	-.06	1.6	-.01	1.7 ***	-.07	
		2	Sometimes	1,232	33	9,069	32	8,351	29	3,696	32								
		3	Often	337	9	2,936	11	2,852	10	1,238	11								
		4	Very often	120	3	1,134	4	1,227	4	487	4								
		Total		3,724	100	28,295	100	28,954	100	11,418	100								
e. Asked another student to help you understand course material	CLaskhelp	1	Never	162	5	2,345	8	2,372	8	887	8	2.8	2.7 ***	.20	2.7 ***	.21	2.7 ***	.15	
		2	Sometimes	1,152	31	10,260	36	10,520	36	3,928	34								
		3	Often	1,477	39	10,143	36	10,431	36	4,196	37								
		4	Very often	940	25	5,523	20	5,634	19	2,405	21								
		Total		3,731	100	28,271	100	28,957	100	11,416	100								
f. Explained course material to one or more students	CLexplain	1	Never	102	3	1,447	5	1,354	5	506	4	2.9	2.7 ***	.15	2.8 ***	.12	2.8 ***	.08	
		2	Sometimes	1,161	31	10,313	36	10,275	35	3,936	34								
		3	Often	1,667	45	11,453	41	11,731	40	4,697	41								
		4	Very often	801	22	5,045	19	5,578	20	2,273	21								
		Total		3,731	100	28,258	100	28,938	100	11,412	100								

*p<.05, **p<.01, ***p<.001 (2-tailed); Refer to p. 2 for key to triangle symbols. See the endnotes on the last page of this report.

NSSE 2017 Frequencies and Statistical Comparisons

University of Waterloo

1st-Year Students

Frequency Distributions^a

Statistical Comparisons^b

Your 1st-year students compared with

Item wording or description	Variable name ^c	Values ^d	Response options	Frequency Distributions ^a								Statistical Comparisons ^b							
				UWaterloo		U15		ON Institutions		U6		UWaterloo	U15	ON Institutions		U6			
				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	342	9	3,705	13	3,754	13	1,395	12	2.7	2.6 ***	.12	2.6 ***	.11	2.6 ***	.10	
		2	Sometimes	1,127	30	9,255	33	9,401	32	3,798	33								
		3	Often	1,416	38	9,402	33	9,610	33	3,765	33								
		4	Very often	837	22	5,815	21	6,098	21	2,423	22								
		Total		3,722	100	28,177	100	28,863	100	11,381	100								
h. Worked with other students on course projects or assignments	CLproject	1	Never	215	6	3,279	11	3,337	11	1,411	12	2.8	2.7 ***	.16	2.6 ***	.20	2.6 ***	.20	
		2	Sometimes	1,181	32	9,323	33	10,050	34	3,969	34								
		3	Often	1,423	38	9,637	34	9,886	34	3,762	33								
		4	Very often	903	24	5,917	21	5,539	20	2,220	20								
		Total		3,722	100	28,156	100	28,812	100	11,362	100								
i. Given a course presentation	present	1	Never	1,004	27	12,710	44	12,012	41	5,355	45	2.1	1.8 ***	.35	1.9 ***	.24	1.7 ***	.39	
		2	Sometimes	1,749	47	10,807	39	10,958	38	4,316	39								
		3	Often	693	19	3,465	13	4,184	15	1,281	12								
		4	Very often	276	7	1,177	4	1,658	6	418	4								
		Total		3,722	100	28,159	100	28,812	100	11,370	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	217	6	2,274	8	2,187	8	861	8	2.6	2.6	.00	2.6	-.02	2.6	.00	
		2	Sometimes	1,613	43	11,082	40	11,331	40	4,611	41								
		3	Often	1,412	38	10,972	39	11,042	38	4,318	38								
		4	Very often	465	12	3,667	13	4,077	14	1,506	13								
		Total		3,707	100	27,995	100	28,637	100	11,296	100								
b. Connected your learning to societal problems or issues	RIsocietal	1	Never	619	17	3,211	12	3,193	12	1,278	12	2.3	2.5 ***	-.25	2.5 ***	-.26	2.5 ***	-.25	
		2	Sometimes	1,727	47	11,252	40	11,258	40	4,569	41								
		3	Often	1,003	27	9,663	34	10,059	35	3,860	34								
		4	Very often	344	9	3,795	14	4,034	14	1,553	14								
		Total		3,693	100	27,921	100	28,544	100	11,260	100								
c. Included diverse perspectives (political, religious, racial/ethnic, gender, etc.) in course discussions or assignments	RIdiverse	1	Never	1,043	29	6,522	24	5,370	20	2,417	22	2.1	2.2 ***	-.16	2.4 ***	-.28	2.3 ***	-.22	
		2	Sometimes	1,489	40	10,886	39	10,647	38	4,216	38								
		3	Often	856	23	7,465	27	8,568	29	3,190	28								
		4	Very often	302	8	2,983	11	3,863	13	1,410	12								
		Total		3,690	100	27,856	100	28,448	100	11,233	100								

*p<.05, **p<.01, ***p<.001 (2-tailed); Refer to p. 2 for key to triangle symbols. See the endnotes on the last page of this report.

NSSE 2017 Frequencies and Statistical Comparisons

University of Waterloo

1st-Year Students

Frequency Distributions^a

Statistical Comparisons^b

Your 1st-year students compared with

Item wording or description	Variable name ^c	Values ^d	Response options	Frequency Distributions ^a								Statistical Comparisons ^b							
				UWaterloo		U15		ON Institutions		U6		UWaterloo	U15	ON Institutions		U6			
				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	298	8	2,321	8	2,195	8	913	8	2.6	2.6 **	-.04	2.6 ***	-.08	2.6 ***	-.07	
		2	Sometimes	1,416	38	10,317	37	10,200	36	4,008	35								
		3	Often	1,557	42	11,523	42	12,032	42	4,721	42								
		4	Very often	410	11	3,570	13	3,904	14	1,541	14								
		Total		3,681	100	27,731	100	28,331	100	11,183	100								
e. Tried to better understand someone else's views by imagining how an issue looks from their perspective	Rlperspect	1	Never	181	5	1,388	5	1,212	4	490	4	2.7	2.8 ***	-.07	2.8 ***	-.10	2.8 ***	-.11	
		2	Sometimes	1,203	33	8,391	30	8,363	30	3,285	30								
		3	Often	1,688	46	12,569	45	12,831	45	5,052	45								
		4	Very often	603	16	5,246	19	5,784	20	2,293	21								
		Total		3,675	100	27,594	100	28,190	100	11,120	100								
f. Learned something that changed the way you understand an issue or concept	Rlnewview	1	Never	104	3	649	2	710	3	267	2	2.8	2.9 ***	-.09	2.9 ***	-.07	2.9 ***	-.10	
		2	Sometimes	1,125	31	7,611	28	7,896	28	3,048	28								
		3	Often	1,773	48	13,426	48	13,513	48	5,305	48								
		4	Very often	670	18	5,789	21	5,969	21	2,473	22								
		Total		3,672	100	27,475	100	28,088	100	11,093	100								
g. Connected ideas from your courses to your prior experiences and knowledge	Rlconnect	1	Never	61	2	389	2	387	2	142	1	3.0	3.0 ***	-.12	3.0 ***	-.10	3.0 ***	-.13	
		2	Sometimes	855	23	5,576	20	5,791	21	2,218	20								
		3	Often	1,933	53	14,060	51	14,396	51	5,616	51								
		4	Very often	808	22	7,371	27	7,424	26	3,076	28								
		Total		3,657	100	27,396	100	27,998	100	11,052	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	1,507	41	13,710	49	13,745	48	5,485	48	1.9	1.7 ***	.17	1.8 ***	.14	1.8 ***	.15	
		2	Sometimes	1,329	36	9,055	33	9,033	33	3,618	33								
		3	Often	587	16	3,274	12	3,645	13	1,362	13								
		4	Very often	239	7	1,354	5	1,569	6	575	5								
		Total		3,662	100	27,393	100	27,992	100	11,040	100								
b. Worked with a faculty member on activities other than coursework (committees, student groups, etc.)	SFotherwork	1	Never	2,055	56	19,043	68	18,478	65	7,155	64	1.6	1.5 ***	.24	1.5 ***	.17	1.5 ***	.15	
		2	Sometimes	1,032	28	5,573	21	6,203	23	2,563	24								
		3	Often	429	12	2,032	8	2,432	9	978	9								
		4	Very often	135	4	694	3	823	3	322	3								
		Total		3,651	100	27,342	100	27,936	100	11,018	100								

*p<.05, **p<.01, ***p<.001 (2-tailed); Refer to p. 2 for key to triangle symbols. See the endnotes on the last page of this report.

NSSE 2017 Frequencies and Statistical Comparisons

University of Waterloo

1st-Year Students

Frequency Distributions^a

Statistical Comparisons^b

Your 1st-year students compared with

Item wording or description	Variable name ^c	Values ^d	Response options	Frequency Distributions ^a								Statistical Comparisons ^b									
				UWaterloo		U15		ON Institutions		U6		UWaterloo	U15		ON Institutions		U6				
				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	1,313	36	12,688	45	12,727	45	4,881	43	1.9	1.8 ***	.19	1.8 ***	.17	1.8 ***	.14			
		2	Sometimes	1,503	41	10,099	37	10,105	37	4,065	38								△	△	△
		3	Often	644	18	3,409	13	3,813	14	1,537	14										
		4	Very often	185	5	1,070	4	1,216	4	504	5										
		Total		3,645	100	27,266	100	27,861	100	10,987	100										
d. Discussed your academic performance with a faculty member	SFperform	1	Never	1,656	45	15,077	54	13,922	50	5,741	52	1.8	1.6 ***	.20	1.7 ***	.10	1.7 ***	.13			
		2	Sometimes	1,333	36	8,817	33	9,636	35	3,677	34								△	△	△
		3	Often	520	14	2,582	10	3,285	12	1,180	11										
		4	Very often	143	4	769	3	974	4	373	4										
		Total		3,652	100	27,245	100	27,817	100	10,971	100										
4. During the current school year, how much has your coursework emphasized the following?																					
a. Memorizing course material	memorize	1	Very little	220	6	852	3	1,004	4	348	3	2.8	3.0 ***	-.29	3.0 ***	-.23	3.0 ***	-.25			
		2	Some	1,106	31	5,753	22	6,422	24	2,536	24								▽	▽	▽
		3	Quite a bit	1,518	41	11,784	43	12,122	44	4,662	43										
		4	Very much	802	21	8,837	31	8,256	28	3,422	30										
		Total		3,646	100	27,226	100	27,804	100	10,968	100										
b. Applying facts, theories, or methods to practical problems or new situations	HOapply	1	Very little	94	3	976	3	1,027	4	362	3	3.1	3.0 ***	.09	3.0 ***	.11	3.1	.02			
		2	Some	727	20	6,179	22	6,443	23	2,359	21								△	△	
		3	Quite a bit	1,651	45	12,282	45	12,354	45	4,737	43										
		4	Very much	1,184	32	7,755	29	7,931	29	3,504	33										
		Total		3,656	100	27,192	100	27,755	100	10,962	100										
c. Analyzing an idea, experience, or line of reasoning in depth by examining its parts	HOanalyze	1	Very little	144	4	1,393	5	1,342	5	539	5	2.9	2.9 ***	.06	2.9 ***	.06	2.9	.01			
		2	Some	955	26	7,624	28	7,878	28	2,956	27								△	△	
		3	Quite a bit	1,644	45	11,838	43	11,899	43	4,639	42										
		4	Very much	902	25	6,268	24	6,565	24	2,798	26										
		Total		3,645	100	27,123	100	27,684	100	10,932	100										
d. Evaluating a point of view, decision, or information source	HOevaluate	1	Very little	403	11	2,828	11	2,277	8	1,030	9	2.6	2.6 **	-.05	2.7 ***	-.14	2.7 ***	-.12			
		2	Some	1,276	35	9,092	33	8,767	32	3,551	33								▽	▽	▽
		3	Quite a bit	1,394	38	10,599	39	11,423	41	4,256	39										
		4	Very much	575	16	4,575	17	5,202	19	2,087	19										
		Total		3,648	100	27,094	100	27,669	100	10,924	100										

*p<.05, **p<.01, ***p<.001 (2-tailed); Refer to p. 2 for key to triangle symbols. See the endnotes on the last page of this report.

NSSE 2017 Frequencies and Statistical Comparisons

University of Waterloo

1st-Year Students

Frequency Distributions^a

Statistical Comparisons^b

Your 1st-year students compared with

Item wording or description	Variable name ^c	Values ^d	Response options	Frequency Distributions ^a								Statistical Comparisons ^b							
				UWaterloo		U15		ON Institutions		U6		UWaterloo	U15	ON Institutions		U6			
				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	210	6	2,082	8	1,861	7	784	7	2.7	2.7 *	.04	2.7	.00	2.8	-.02	
		2	Some	1,146	32	8,658	32	8,583	31	3,345	30								
		3	Quite a bit	1,650	45	11,501	43	11,858	43	4,638	43								
		4	Very much	636	18	4,824	18	5,347	19	2,154	20								
		Total		3,642	100	27,065	100	27,649	100	10,921	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	77	2	651	3	888	3	323	3	2.9	3.0	-.03	2.9	.03	2.9 *	.04	
		2	Some	869	24	6,147	23	6,845	25	2,767	25								
		3	Quite a bit	1,870	51	13,593	50	13,193	48	5,297	48								
		4	Very much	824	23	6,672	25	6,709	24	2,525	23								
		Total		3,640	100	27,063	100	27,635	100	10,912	100								
b. Taught course sessions in an organized way	ETorganize	1	Very little	86	2	701	3	957	4	336	3	2.9	2.9	-.02	2.9	.03	2.9	.00	
		2	Some	873	24	5,984	22	6,860	25	2,618	24								
		3	Quite a bit	1,883	52	14,398	53	13,421	49	5,480	50								
		4	Very much	795	22	5,970	23	6,372	23	2,477	23								
		Total		3,637	100	27,053	100	27,610	100	10,911	100								
c. Used examples or illustrations to explain difficult points	ETexample	1	Very little	90	3	800	3	1,115	4	386	4	3.0	3.0	.01	2.9 ***	.08	3.0 *	.04	
		2	Some	789	22	5,758	21	6,723	25	2,511	23								
		3	Quite a bit	1,777	49	13,210	48	12,376	45	5,098	47								
		4	Very much	982	27	7,259	27	7,369	27	2,902	27								
		Total		3,638	100	27,027	100	27,583	100	10,897	100								
d. Provided feedback on a draft or work in progress	ETdraftfb	1	Very little	661	18	5,943	22	6,081	22	2,552	23	2.3	2.3 ***	.09	2.3 ***	.06	2.2 ***	.11	
		2	Some	1,470	40	10,837	40	10,628	39	4,383	40								
		3	Quite a bit	1,112	31	7,494	28	7,572	27	2,853	26								
		4	Very much	382	11	2,733	10	3,262	12	1,096	10								
		Total		3,625	100	27,007	100	27,543	100	10,884	100								
e. Provided prompt and detailed feedback on tests or completed assignments	ETfeedback	1	Very little	446	12	4,464	17	4,642	17	1,925	18	2.5	2.4 ***	.12	2.4 ***	.11	2.3 ***	.14	
		2	Some	1,492	41	11,312	42	11,217	41	4,576	42								
		3	Quite a bit	1,286	36	8,598	32	8,709	32	3,316	31								
		4	Very much	402	11	2,591	10	2,963	11	1,062	10								
		Total		3,626	100	26,965	100	27,531	100	10,879	100								

*p<.05, **p<.01, ***p<.001 (2-tailed); Refer to p. 2 for key to triangle symbols. See the endnotes on the last page of this report.

NSSE 2017 Frequencies and Statistical Comparisons

University of Waterloo

1st-Year Students

Frequency Distributions^a

Statistical Comparisons^b

Your 1st-year students compared with

Item wording or description	Variable name ^c	Values ^d	Response options	UWaterloo		U15		ON Institutions		U6		UWaterloo		U15		ON Institutions		U6	
				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	352	9	4,632	16	5,054	17	1,789	15	2.6	2.4 ***	.19	2.4 ***	.22	2.4 ***	.17	
		2	Sometimes	1,325	36	10,372	38	10,589	38	4,197	38								
		3	Often	1,451	40	8,858	34	8,771	33	3,595	34								
		4	Very often	499	14	3,062	12	3,068	12	1,276	12								
		Total		3,627	100	26,924	100	27,482	100	10,857	100								
b. Used numerical information to examine a real-world problem or issue (unemployment, climate change, public health, etc.)	QRproblem	1	Never	895	25	8,203	29	7,536	26	2,930	26	2.2	2.1 ***	.12	2.1 **	.05	2.2 *	.04	
		2	Sometimes	1,486	41	10,841	40	11,177	41	4,433	41								
		3	Often	931	26	6,034	23	6,664	25	2,643	25								
		4	Very often	304	9	1,821	7	2,067	8	830	8								
		Total		3,616	100	26,899	100	27,444	100	10,836	100								
c. Evaluated what others have concluded from numerical information	QRevaluate	1	Never	666	18	6,975	24	6,742	23	2,455	21	2.3	2.2 ***	.16	2.2 ***	.13	2.2 ***	.08	
		2	Sometimes	1,561	43	11,445	43	11,754	43	4,644	43								
		3	Often	1,096	31	6,795	26	7,081	27	2,966	28								
		4	Very often	298	8	1,707	7	1,904	7	788	8								
		Total		3,621	100	26,922	100	27,481	100	10,853	100								
7. During the current school year, about how many papers, reports, or other writing tasks of the following lengths have you been assigned? (Include those not yet completed.)																			
a. Up to 5 pages	wrshortnum <i>(Recorded version of wrshort created by NSSE. Values are estimated number of papers, reports, etc.)</i>	0	None	311	9	1,986	8	1,493	6	733	8	6.8	6.0 ***	.14	6.4 ***	.08	6.3 ***	.10	
		1.5	1-2	654	19	5,646	22	5,144	20	2,144	21								
		4	3-5	981	28	7,790	31	8,161	32	3,113	31								
		8	6-10	824	23	5,648	22	6,114	24	2,312	23								
		13	11-15	379	11	2,188	9	2,487	10	946	9								
		18	16-20	146	4	871	4	1,056	4	362	4								
		23	More than 20	216	6	937	4	1,021	4	443	5								
Total		3,511	100	25,066	100	25,476	100	10,053	100										
b. Between 6 and 10 pages	wrmednum <i>(Recorded version of wrmed created by NSSE. Values are estimated number of papers, reports, etc.)</i>	0	None	982	29	8,087	33	6,680	27	2,976	31	3.5	2.7 ***	.22	3.1 ***	.10	2.9 ***	.16	
		1.5	1-2	1,069	30	8,642	34	8,858	35	3,424	34								
		4	3-5	752	21	4,970	20	5,615	22	2,104	21								
		8	6-10	430	12	2,248	9	2,817	11	995	10								
		13	11-15	146	4	614	3	837	3	291	3								
		18	16-20	45	1	180	1	254	1	91	1								
		23	More than 20	65	2	189	1	246	1	101	1								
Total		3,489	100	24,930	100	25,307	100	9,982	100										

*p<.05, **p<.01, ***p<.001 (2-tailed); Refer to p. 2 for key to triangle symbols. See the endnotes on the last page of this report.

NSSE 2017 Frequencies and Statistical Comparisons

University of Waterloo

1st-Year Students

Frequency Distributions^a

Statistical Comparisons^b

Your 1st-year students compared with

Item wording or description	Variable name ^c	Values ^d	Response options	UWaterloo		U15		ON Institutions		U6		UWaterloo		U15		ON Institutions		U6	
				Count	%	Count	%	Count	%	Count	%	Mean	Effect size ^e	Mean	Effect size ^e	Mean	Effect size ^e	Mean	Effect size ^e
c. 11 pages or more	wrlongnum	0	None	1,682	48	16,221	65	15,946	63	6,269	63	2.3	1.4 ***	.28	1.6 ***	.20	1.5 ***	.20	
	(Recoded version of wrlong created by NSSE. Values are estimated number of papers, reports, etc.)	1.5	1-2	1,036	29	5,559	22	5,671	22	2,233	22								
		4	3-5	393	11	1,671	7	1,721	7	735	7								
		8	6-10	204	6	802	3	1,036	4	401	4								
		13	11-15	100	3	394	2	565	2	207	2								
		18	16-20	31	1	130	1	160	1	56	1								
		23	More than 20	58	2	186	1	226	1	102	1								
		Total			3,504	100	24,963	100	25,325	100	10,003	100							
Estimated number of assigned pages of student writing.	wrpages											82.0	59.2 ***	.29	67.0 ***	.17	64.2 ***	.21	
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	142	4	1,275	5	1,166	5	402	4	3.2	3.1 ***	.10	3.1 ***	.08	3.2	.03	
		2	Sometimes	643	18	5,882	23	5,318	21	2,019	20								
		3	Often	1,133	32	7,678	31	7,997	32	3,052	31								
		4	Very often	1,613	46	10,252	42	10,950	43	4,562	45								
			Total	3,531	100	25,087	100	25,431	100	10,035	100								
b. People from an economic background other than your own	DDeconomic	1	Never	163	5	1,581	6	1,367	5	508	5	3.0	2.9 ***	.10	3.0 **	.05	3.0 *	.04	
		2	Sometimes	852	24	7,099	28	6,482	26	2,604	26								
		3	Often	1,285	37	8,762	35	9,131	36	3,523	35								
		4	Very often	1,214	35	7,574	31	8,376	33	3,378	34								
			Total	3,514	100	25,016	100	25,356	100	10,013	100								
c. People with religious beliefs other than your own	DDreligion	1	Never	189	5	1,812	7	1,476	6	533	5	3.1	3.0 ***	.14	3.0 ***	.07	3.0	.03	
		2	Sometimes	732	21	6,780	26	5,844	23	2,284	23								
		3	Often	1,194	34	7,930	32	8,502	33	3,269	33								
		4	Very often	1,400	40	8,526	35	9,550	37	3,938	39								
			Total	3,515	100	25,048	100	25,372	100	10,024	100								
d. People with political views other than your own	DDpolitical	1	Never	271	8	1,934	8	1,956	8	736	7	2.8	2.8	.00	2.8	-.02	2.8	-.02	
		2	Sometimes	1,208	34	8,609	34	8,318	33	3,415	34								
		3	Often	1,115	32	8,198	33	8,271	33	3,215	32								
		4	Very often	913	26	6,286	26	6,830	27	2,648	27								
			Total	3,507	100	25,027	100	25,375	100	10,014	100								

*p<.05, **p<.01, ***p<.001 (2-tailed); Refer to p. 2 for key to triangle symbols. See the endnotes on the last page of this report.

NSSE 2017 Frequencies and Statistical Comparisons

University of Waterloo

1st-Year Students

Frequency Distributions^a

Statistical Comparisons^b

Your 1st-year students compared with

Item wording or description	Variable name ^c	Values ^d	Response options	UWaterloo				U15				ON Institutions				U6				UWaterloo		U15		ON Institutions		U6	
				Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Effect size ^e	Effect size ^e	Effect size ^e	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	123	4	600	3	595	2	213	2	2.9	3.0 ***	-0.12	2.9 ***	-0.09	3.0 ***	-0.11									
		2	Sometimes	928	26	5,795	24	6,074	24	2,355	24																
		3	Often	1,700	48	11,947	48	12,413	49	4,828	49																
		4	Very often	757	22	6,592	26	6,187	24	2,574	25																
		Total		3,508	100	24,934	100	25,269	100	9,970	100																
b. Reviewed your notes after class	LSnotes	1	Never	261	7	2,069	9	2,212	9	869	9	2.6	2.7 ***	-0.07	2.6	.01	2.6	-0.01									
		2	Sometimes	1,508	43	9,573	39	10,398	41	4,055	41																
		3	Often	1,136	32	7,855	31	7,880	31	3,070	31																
		4	Very often	606	17	5,447	21	4,772	18	1,975	19																
		Total		3,511	100	24,944	100	25,262	100	9,969	100																
c. Summarized what you learned in class or from course materials	LSsummary	1	Never	263	8	1,893	8	2,089	8	780	8	2.7	2.7 ***	-0.08	2.7	.00	2.7	-0.03									
		2	Sometimes	1,288	37	8,210	33	9,022	36	3,509	36																
		3	Often	1,301	37	8,994	36	9,201	37	3,571	36																
		4	Very often	647	18	5,789	23	4,895	19	2,081	20																
		Total		3,499	100	24,886	100	25,207	100	9,941	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	47	1	213	1	282	1	76	1	5.3	5.4 ***	-0.07	5.3	.01	5.3 **	-0.05									
		2		54	2	402	2	449	2	169	2																
		3		247	7	1,210	5	1,437	6	519	6																
		4		439	13	3,174	13	3,585	14	1,327	13																
		5		1,103	31	8,040	32	8,374	33	3,206	32																
		6		924	26	6,456	26	6,144	24	2,504	25																
		7	Very much	681	19	5,342	21	4,855	19	2,113	21																
		Total		3,495	100	24,837	100	25,126	100	9,914	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		197	6	4,393	17	4,536	18	1,690	17	22%	7% ***	.45	6% ***	.50	4% ***	.55									
		Do not plan to do		195	6	1,632	7	1,879	8	620	6																
		Plan to do		2,361	67	17,062	69	17,229	69	7,152	72																
		Done or in progress		750	22	1,753	7	1,479	6	449	4																
		Total		3,503	100	24,840	100	25,123	100	9,911	100																

*p<.05, **p<.01, ***p<.001 (2-tailed); Refer to p. 2 for key to triangle symbols. See the endnotes on the last page of this report.

NSSE 2017 Frequencies and Statistical Comparisons

University of Waterloo

1st-Year Students

Frequency Distributions^a

Statistical Comparisons^b

Your 1st-year students compared with

Item wording or description	Variable name ^c	Values ^d	Response options	UWaterloo				U15				ON Institutions				U6			
				Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%		
b. Hold a formal leadership role in a student organization or group	leader <i>(Means indicate the percentage who responded "Done or in progress.")</i>		Have not decided	778	22	7,037	28	7,192	28	2,695	27	13%	9% ***	.13	8% ***	.17	9% ***	.13	
			Do not plan to do	741	22	7,556	29	6,933	27	2,378	24								
			Plan to do	1,503	43	7,987	34	8,956	36	3,945	40								
			Done or in progress	468	13	2,191	9	1,990	8	865	9								
			Total	3,490	100	24,771	100	25,071	100	9,883	100								
c. Participate in a learning community or some other formal program where groups of students take two or more classes together	learncom <i>(Means indicate the percentage who responded "Done or in progress.")</i>		Have not decided	921	26	8,442	34	8,683	34	3,349	33	14%	10% ***	.13	8% ***	.20	9% ***	.17	
			Do not plan to do	1,024	30	7,522	30	7,174	29	2,767	28								
			Plan to do	1,030	30	6,185	26	7,172	29	2,872	29								
			Done or in progress	497	14	2,523	10	1,942	8	853	9								
			Total	3,472	100	24,672	100	24,971	100	9,841	100								
d. Participate in a study abroad program	abroad <i>(Means indicate the percentage who responded "Done or in progress.")</i>		Have not decided	1,011	29	7,450	30	7,593	30	2,894	29	3%	2%	.02	2%	.02	2%	.02	
			Do not plan to do	995	29	7,020	29	7,298	30	2,607	28								
			Plan to do	1,382	39	9,713	39	9,555	37	4,132	40								
			Done or in progress	92	3	534	2	557	2	221	2								
			Total	3,480	100	24,717	100	25,003	100	9,854	100								
e. Work with a faculty member on a research project	research <i>(Means indicate the percentage who responded "Done or in progress.")</i>		Have not decided	1,161	33	8,929	36	9,113	36	3,354	34	4%	3% **	.05	3% ***	.08	3% ***	.07	
			Do not plan to do	738	21	5,704	22	5,710	23	1,912	19								
			Plan to do	1,448	42	9,342	39	9,552	39	4,344	44								
			Done or in progress	134	4	744	3	609	3	248	3								
			Total	3,481	100	24,719	100	24,984	100	9,858	100								
f. Complete a culminating senior experience (capstone course, senior project or thesis, comprehensive exam, portfolio, etc.)	capstone <i>(Means indicate the percentage who responded "Done or in progress.")</i>		Have not decided	1,148	33	10,190	41	10,113	40	4,011	40	3%	2% **	.05	2% ***	.06	1% ***	.09	
			Do not plan to do	575	17	4,592	18	4,539	18	1,627	17								
			Plan to do	1,667	48	9,489	39	9,873	40	4,094	42								
			Done or in progress	86	3	427	2	442	2	126	1								
			Total	3,476	100	24,698	100	24,967	100	9,858	100								
12. About how many of your courses at this institution have included a community-based project (service-learning)?																			
	servcourse		1 None	1,933	56	15,163	61	13,914	55	5,714	57	1.6	1.5 ***	.13	1.5	.00	1.5 **	.06	
			2 Some	1,187	34	7,884	33	8,839	36	3,463	36								
			3 Most	253	7	1,313	5	1,775	7	540	6								
			4 All	66	2	236	1	353	1	99	1								
			Total	3,439	100	24,596	100	24,881	100	9,816	100								

*p<.05, **p<.01, ***p<.001 (2-tailed); Refer to p. 2 for key to triangle symbols. See the endnotes on the last page of this report.

NSSE 2017 Frequencies and Statistical Comparisons

University of Waterloo

1st-Year Students

				Frequency Distributions ^a								Statistical Comparisons ^b							
				UWaterloo		U15		ON Institutions		U6		UWaterloo		U15		ON Institutions		U6	
												Your 1st-year students compared with							
Item wording or description	Variable name ^c	Values ^d	Response options	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	Q1student	1	Poor	74	2	418	2	518	2	176	2	5.3	5.4	-.02	5.3	.02	5.3	.02	
		2		85	2	627	2	705	3	271	3								
		3		178	5	1,381	6	1,481	6	591	6								
		4		437	13	3,112	13	3,258	13	1,310	13								
		5		957	27	6,519	26	6,661	26	2,686	27								
		6		946	27	6,499	27	6,456	26	2,563	26								
		7	Excellent	778	22	5,844	24	5,640	23	2,155	22								
		—	Not applicable	25	1	262	1	229	1	79	1								
			Total	3,480	100	24,662	100	24,948	100	9,831	100								
b. Academic advisors	Q1advisor	1	Poor	162	5	1,250	5	1,407	5	559	5	4.6	4.6	-.03	4.6	-.02	4.6	.00	
		2		226	6	1,308	5	1,511	6	564	6								
		3		354	10	2,088	8	2,349	9	956	10								
		4		561	16	3,332	14	3,705	15	1,431	14								
		5		676	19	4,510	19	5,004	20	1,974	20								
		6		561	16	3,496	15	3,711	15	1,422	15								
		7	Excellent	405	12	2,916	12	3,125	13	1,085	11								
		—	Not applicable	530	16	5,721	23	4,102	17	1,826	19								
			Total	3,475	100	24,621	100	24,914	100	9,817	100								
c. Faculty	Q1faculty	1	Poor	112	3	909	4	1,182	5	435	4	4.9	4.8	.01	4.8 ***	.06	4.8 ***	.07	
		2		154	4	1,134	5	1,371	5	531	5								
		3		295	8	2,116	9	2,335	9	957	9								
		4		583	17	4,036	16	4,274	17	1,650	17								
		5		985	28	6,539	27	6,327	26	2,494	26								
		6		761	22	5,329	22	5,024	21	1,973	21								
		7	Excellent	419	12	3,045	13	3,147	13	1,149	12								
		—	Not applicable	156	5	1,475	6	1,192	5	604	6								
			Total	3,465	100	24,583	100	24,852	100	9,793	100								

NSSE 2017 Frequencies and Statistical Comparisons

University of Waterloo

1st-Year Students

Frequency Distributions^a

Statistical Comparisons^b

Your 1st-year students compared with

Item wording or description	Variable name ^c	Values ^d	Response options	Frequency Distributions ^a								Statistical Comparisons ^b							
				UWaterloo		U15		ON Institutions		U6		UWaterloo	U15	ON Institutions		U6			
				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.)	QIstaff	1	Poor	143	4	1,156	5	1,513	6	539	5	4.8	4.7	.02	4.7 **	.06	4.7 *	.05	
		2		178	5	1,180	5	1,449	6	553	5								
		3		299	9	1,828	7	2,051	8	819	8								
		4		542	16	3,085	13	3,403	14	1,348	13								
		5		805	23	4,704	20	4,803	19	2,018	21								
		6		635	18	3,868	16	4,002	17	1,633	17								
		7	Excellent	445	13	2,764	12	3,071	13	1,142	12								
		—	Not applicable	407	12	5,966	23	4,541	18	1,730	18								
	Total			3,454	100	24,551	100	24,833	100	9,782	100								
e. Other administrative staff and offices (registrar, financial aid, etc.)	QIadmin	1	Poor	174	5	1,160	5	1,490	6	513	5	4.6	4.7 ***	-.10	4.6 **	-.05	4.7 ***	-.09	
		2		230	7	1,285	5	1,627	6	588	6								
		3		291	8	1,902	8	2,201	8	861	8								
		4		565	16	3,368	14	3,756	15	1,480	15								
		5		794	23	4,891	20	5,226	21	2,103	21								
		6		539	16	3,994	17	4,151	17	1,661	17								
		7	Excellent	332	10	2,908	12	3,048	13	1,205	13								
		—	Not applicable	546	16	5,092	20	3,392	14	1,394	14								
	Total			3,471	100	24,600	100	24,891	100	9,805	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	33	1	354	2	449	2	157	2	3.3	3.2 ***	.12	3.1 ***	.24	3.2 ***	.12	
		2	Some	468	14	3,474	15	4,276	18	1,415	15								
		3	Quite a bit	1,388	40	11,090	46	11,450	47	4,280	45								
		4	Very much	1,542	45	8,967	38	7,992	33	3,643	38								
			Total	3,431	100	23,885	100	24,167	100	9,495	100								
b. Providing support to help students succeed academically	SEacademic	1	Very little	127	4	1,138	5	1,233	5	453	5	2.9	2.8 *	.03	2.8	.01	2.8	.01	
		2	Some	944	28	6,581	28	6,414	27	2,621	28								
		3	Quite a bit	1,620	47	11,274	47	10,969	46	4,327	46								
		4	Very much	722	21	4,807	20	5,433	22	2,064	22								
			Total	3,413	100	23,800	100	24,049	100	9,465	100								
c. Using learning support services (tutoring services, writing center, etc.)	SElearnsup	1	Very little	259	8	2,194	9	2,182	9	747	8	2.8	2.7 *	.04	2.8	-.03	2.8 *	-.04	
		2	Some	956	28	6,763	29	6,040	26	2,469	26								
		3	Quite a bit	1,475	43	9,816	41	9,978	41	3,985	42								
		4	Very much	726	21	5,036	21	5,892	24	2,271	24								
			Total	3,416	100	23,809	100	24,092	100	9,472	100								

*p<.05, **p<.01, ***p<.001 (2-tailed); Refer to p. 2 for key to triangle symbols. See the endnotes on the last page of this report.

NSSE 2017 Frequencies and Statistical Comparisons

University of Waterloo

1st-Year Students

Frequency Distributions^a

Statistical Comparisons^b

Your 1st-year students compared with

Item wording or description	Variable name ^c	Values ^d	Response options	UWaterloo				U15				ON Institutions				U6			
				Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%		
d. Encouraging contact among students from different backgrounds (social, racial/ethnic, religious, etc.)	SEdiverse	1	Very little	543	16	4,292	18	3,965	17	1,659	17	2.5	2.5 *	.04	2.5	-.01	2.5	.02	
		2	Some	1,141	34	8,120	34	7,655	32	3,161	33								
		3	Quite a bit	1,158	34	7,662	32	8,218	34	3,083	33								
		4	Very much	565	16	3,700	16	4,196	17	1,554	17								
		Total		3,407	100	23,774	100	24,034	100	9,457	100								
e. Providing opportunities to be involved socially	SEsocial	1	Very little	398	12	2,297	10	2,358	10	959	10	2.6	2.7 ***	-.16	2.7 ***	-.16	2.7 ***	-.15	
		2	Some	1,197	35	7,146	30	7,345	31	2,946	31								
		3	Quite a bit	1,299	38	9,827	41	9,524	40	3,753	40								
		4	Very much	510	15	4,470	19	4,781	20	1,782	19								
		Total		3,404	100	23,740	100	24,008	100	9,440	100								
f. Providing support for your overall well-being (recreation, health care, counseling, etc.)	SEwellness	1	Very little	373	11	2,478	10	2,534	10	980	10	2.6	2.7 ***	-.13	2.7 ***	-.13	2.7 ***	-.16	
		2	Some	1,187	35	6,951	29	6,982	29	2,715	28								
		3	Quite a bit	1,296	38	9,653	41	9,562	40	3,776	40								
		4	Very much	547	16	4,643	20	4,906	20	1,967	21								
		Total		3,403	100	23,725	100	23,984	100	9,438	100								
g. Helping you manage your non-academic responsibilities (work, family, etc.)	SEnonacad	1	Very little	887	26	7,218	30	7,281	30	2,900	30	2.1	2.1 ***	.08	2.1 *	.04	2.1 **	.06	
		2	Some	1,402	41	9,379	40	8,910	37	3,645	39								
		3	Quite a bit	854	25	5,449	23	5,781	24	2,168	24								
		4	Very much	261	8	1,639	7	1,989	8	711	8								
		Total		3,404	100	23,685	100	23,961	100	9,424	100								
h. Attending campus activities and events (performing arts, athletic events, etc.)	SEactivities	1	Very little	691	20	3,234	14	3,766	16	1,422	15	2.3	2.5 ***	-.27	2.5 ***	-.21	2.5 ***	-.21	
		2	Some	1,385	41	8,260	35	8,501	36	3,466	37								
		3	Quite a bit	1,004	29	8,780	37	8,280	35	3,266	35								
		4	Very much	317	9	3,408	14	3,404	14	1,265	13								
		Total		3,397	100	23,682	100	23,951	100	9,419	100								
i. Attending events that address important social, economic, or political issues	SEevents	1	Very little	762	23	4,543	19	4,780	20	1,845	19	2.2	2.3 ***	-.13	2.3 ***	-.12	2.3 ***	-.12	
		2	Some	1,447	43	9,560	40	9,447	40	3,855	41								
		3	Quite a bit	918	27	7,261	31	7,159	30	2,798	30								
		4	Very much	265	8	2,296	10	2,527	10	914	10								
		Total		3,392	100	23,660	100	23,913	100	9,412	100								

*p<.05, **p<.01, ***p<.001 (2-tailed); Refer to p. 2 for key to triangle symbols. See the endnotes on the last page of this report.

1st-Year Students

Frequency Distributions^a

Statistical Comparisons^b

Your 1st-year students compared with

Item wording or description	Variable name ^c	Values ^d	Response options	UWaterloo		U15		ON Institutions		U6		UWaterloo		U15		ON Institutions		U6	
				Count	%	Count	%	Count	%	Count	%	Mean	Effect size ^e	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)	tmprephrs	0	0 hrs	20	1	106	0	141	1	45	1	18.8	17.3 ***	.16	16.2 ***	.28	17.5 ***	.14	
	(Recorded version of tmprep created by NSSE. Values are estimated number of hours per week.)	3	1-5 hrs	265	8	2,324	10	2,788	11	869	9								
	8	6-10 hrs	451	13	4,013	17	4,412	18	1,488	16									
	13	11-15 hrs	565	17	4,372	19	4,745	20	1,758	19									
	18	16-20 hrs	648	19	4,478	19	4,480	19	1,790	19									
	23	21-25 hrs	561	16	3,425	15	3,210	14	1,411	15									
	28	26-30 hrs	358	10	2,116	9	1,805	7	875	9									
	33	More than 30 hrs	531	16	2,778	12	2,317	10	1,144	12									
	Total			3,399	100	23,612	100	23,898	100	9,380	100								
b. Participating in co-curricular activities (organizations, campus publications, student government, fraternity or sorority, intercollegiate or intramural sports, etc.)	tmcoccrrhrs	0	0 hrs	926	27	10,172	41	10,044	40	3,445	35	5.4	4.2 ***	.20	4.5 ***	.15	4.7 ***	.11	
	(Recorded version of tmcoccurr created by NSSE. Values are estimated number of hours per week.)	3	1-5 hrs	1,385	40	7,962	34	7,801	33	3,419	37								
	8	6-10 hrs	550	16	2,772	12	2,832	12	1,268	14									
	13	11-15 hrs	262	8	1,319	6	1,558	7	610	7									
	18	16-20 hrs	122	4	732	3	891	4	351	4									
	23	21-25 hrs	101	3	358	2	444	2	171	2									
	28	26-30 hrs	17	1	117	1	134	1	56	1									
	33	More than 30 hrs	31	1	149	1	158	1	59	1									
	Total			3,394	100	23,581	100	23,862	100	9,379	100								
c. Working for pay on campus	tmworkonhrs	0	0 hrs	2,952	87	21,643	91	21,504	90	8,507	90	1.9	1.1 ***	.18	1.4 ***	.10	1.3 ***	.13	
	(Recorded version of tmworkon created by NSSE. Values are estimated number of hours per week.)	3	1-5 hrs	94	3	423	2	424	2	166	2								
	8	6-10 hrs	75	2	503	2	579	2	223	2									
	13	11-15 hrs	96	3	486	2	586	3	213	2									
	18	16-20 hrs	70	2	268	1	385	2	131	2									
	23	21-25 hrs	67	2	162	1	251	1	85	1									
	28	26-30 hrs	11	0	39	0	52	0	23	0									
	33	More than 30 hrs	28	1	61	0	83	0	31	0									
	Total			3,393	100	23,585	100	23,864	100	9,379	100								

*p<.05, **p<.01, ***p<.001 (2-tailed); Refer to p. 2 for key to triangle symbols. See the endnotes on the last page of this report.

NSSE 2017 Frequencies and Statistical Comparisons

University of Waterloo

1st-Year Students

Frequency Distributions^a

Statistical Comparisons^b

Your 1st-year students compared with

Item wording or description	Variable name ^c	Values ^d	Response options	Frequency Distributions ^a								Statistical Comparisons ^b						
				UWaterloo		U15		ON Institutions		U6		UWaterloo	U15	ON Institutions		U6		
				Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size ^e	Mean	Effect size ^e	Mean	Effect size ^e
d. Working for pay off campus	tmworkoffhrs	0	0 hrs	2,735	80	14,418	63	14,927	64	6,580	71	2.8	4.8 ***	-0.26	5.0 ***	-0.28	3.7 ***	-0.13
	(Recorded version of tmworkoff created by NSSE. Values are estimated number of hours per week.)	3	1-5 hrs	130	4	1,587	6	1,401	6	550	6							
		8	6-10 hrs	134	4	2,223	9	1,995	8	670	7							
		13	11-15 hrs	151	4	2,280	9	2,098	8	684	7							
		18	16-20 hrs	100	3	1,766	7	1,777	7	500	5							
		23	21-25 hrs	86	3	745	3	957	4	244	3							
		28	26-30 hrs	16	0	282	1	331	1	80	1							
		33	More than 30 hrs	48	2	312	1	405	2	87	1							
		Total			3,400	100	23,613	100	23,891	100	9,395	100						
Estimated number of hours working for pay	tmworkhrs											4.6	5.9 ***	-0.13	6.4 ***	-0.17	4.9	-0.04
	(Continuous variable created by NSSE)												▽		▽			
e. Doing community service or volunteer work	tmservicehrs	0	0 hrs	2,342	70	15,310	65	15,639	66	6,151	66	2.4	2.1 **	0.06	2.4	0.00	2.2	0.03
	(Recorded version of tmservice created by NSSE. Values are estimated number of hours per week.)	3	1-5 hrs	657	19	5,787	24	5,185	21	2,150	22							
		8	6-10 hrs	139	4	1,316	6	1,442	6	541	6							
		13	11-15 hrs	101	3	580	3	742	3	236	3							
		18	16-20 hrs	67	2	336	2	446	2	155	2							
		23	21-25 hrs	64	2	167	1	274	1	102	1							
		28	26-30 hrs	7	0	38	0	54	0	24	0							
		33	More than 30 hrs	19	1	54	0	84	0	24	0							
		Total			3,396	100	23,588	100	23,866	100	9,383	100						
f. Relaxing and socializing (time with friends, video games, TV or videos, keeping up with friends online, etc.)	tmrelaxhrs	0	0 hrs	57	2	401	2	461	2	172	2	13.2	12.8 **	0.05	13.3	-0.02	13.2	-0.01
	(Recorded version of tmrelax created by NSSE. Values are estimated number of hours per week.)	3	1-5 hrs	534	15	4,478	18	4,308	17	1,632	17							
		8	6-10 hrs	906	26	6,363	27	6,165	25	2,456	26							
		13	11-15 hrs	793	23	5,228	22	5,098	21	2,123	23							
		18	16-20 hrs	528	16	3,378	15	3,591	15	1,402	15							
		23	21-25 hrs	288	9	1,557	7	1,678	7	629	7							
		28	26-30 hrs	90	3	723	3	804	4	315	4							
		33	More than 30 hrs	203	6	1,449	6	1,779	8	658	7							
		Total			3,399	100	23,577	100	23,884	100	9,387	100						

*p<.05, **p<.01, ***p<.001 (2-tailed); Refer to p. 2 for key to triangle symbols. See the endnotes on the last page of this report.

NSSE 2017 Frequencies and Statistical Comparisons

University of Waterloo

1st-Year Students

Frequency Distributions^a

Statistical Comparisons^b

Your 1st-year students compared with

Item wording or description	Variable name ^c	Values ^d	Response options	Frequency Distributions ^a								Statistical Comparisons ^b							
				UWaterloo		U15		ON Institutions		U6		UWaterloo	U15		ON Institutions		U6		
				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	0	0 hrs	2,633	78	17,108	73	16,105	68	6,686	72	2.2	2.5 **	-0.05	3.0 ***	-0.13	2.5 ***	-0.06	
		(Recorded version of tmcare created by NSSE. Values are estimated number of hours per week.)	3	1-5 hrs	362	11	3,322	14	3,627	15	1,318								14
			8	6-10 hrs	116	3	1,203	5	1,565	6	530								6
			13	11-15 hrs	115	3	775	3	1,049	4	351								4
			18	16-20 hrs	73	2	455	2	682	3	237								3
			23	21-25 hrs	61	2	223	1	316	1	109								1
			28	26-30 hrs	8	0	81	0	104	0	34								0
			33	More than 30 hrs	23	1	371	2	359	2	101								1
	Total			3,391	100	23,538	100	23,807	100	9,366	100								
h. Commuting to campus (driving, walking, etc.)	tmcommutehrs	0	0 hrs	713	21	3,756	17	4,979	21	2,032	22	4.9	6.4 ***	-0.24	6.5 ***	-0.23	6.1 ***	-0.19	
		(Recorded version of tmcommute created by NSSE. Values are estimated number of hours per week.)	3	1-5 hrs	1,816	53	9,383	39	8,690	36	3,504								38
			8	6-10 hrs	463	14	5,676	23	4,990	20	1,920								20
			13	11-15 hrs	177	5	2,987	13	2,889	12	1,153								12
			18	16-20 hrs	106	3	998	4	1,238	5	422								4
			23	21-25 hrs	69	2	417	2	533	2	201								2
			28	26-30 hrs	14	0	134	1	195	1	61								1
			33	More than 30 hrs	40	1	252	1	372	2	103								1
	Total			3,398	100	23,603	100	23,886	100	9,396	100								
16. Of the time you spend preparing for class in a typical 7-day week, about how much is on assigned reading?																			
	reading	1	Very little	847	26	3,547	16	3,639	16	1,400	16	2.4	2.8 ***	-0.33	2.8 ***	-0.36	2.8 ***	-0.36	
		2	Some	1,213	36	7,180	30	6,805	29	2,646	28								
		3	About half	706	21	5,989	25	6,180	26	2,415	26								
		4	Most	435	13	4,758	20	5,003	21	2,033	21								
		5	Almost all	180	5	2,104	9	2,209	9	883	9								
		Total		3,381	100	23,578	100	23,836	100	9,377	100								
	tmreadinghrs											6.7	7.8 ***	-0.17	7.5 ***	-0.13	8.1 ***	-0.21	
	(Continuous variable created by NSSE. Calculated as a proportion of tmrephrs based on reading, where Very little=.10; Some=.25; About half=.50; Most=.75; Almost all=.90)																		

*p<.05, **p<.01, ***p<.001 (2-tailed); Refer to p. 2 for key to triangle symbols. See the endnotes on the last page of this report.

NSSE 2017 Frequencies and Statistical Comparisons

University of Waterloo

1st-Year Students

Frequency Distributions^a

Statistical Comparisons^b

Your 1st-year students compared with

Item wording or description	Variable name ^c	Values ^d	Response options	Frequency Distributions ^a								Statistical Comparisons ^b							
				UWaterloo		U15		ON Institutions		U6		UWaterloo		U15		ON Institutions		U6	
				Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size ^e	Mean	Effect size ^e	Mean	Effect size ^e	
<i>(Collapsed version of tmreadinghrs created by NSSE.)</i>	tmreadinghrscol	1	0 hrs	20	1	106	0	141	1	45	1								
		2	More than zero, up to 5 hrs	1,689	51	10,081	43	10,650	45	3,780	41								
		3	More than 5, up to 10 hrs	987	29	7,160	30	6,977	30	2,840	30								
		4	More than 10, up to 15 hrs	302	9	2,697	11	2,653	11	1,152	12								
		5	More than 15, up to 20 hrs	204	6	1,660	7	1,643	7	719	8								
		6	More than 20, up to 25 hrs	118	3	1,246	5	1,181	5	567	6								
		7	More than 25 hrs	47	1	535	2	492	2	223	2								
		Total		3,367	100	23,485	100	23,737	100	9,326	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	459	14	3,049	13	2,644	11	1,150	12	2.5	2.5	-.02	2.6 ***	-.08	2.5 *	-.04	
		2	Some	1,162	34	8,182	35	7,945	34	3,272	35								
		3	Quite a bit	1,330	39	8,974	38	9,679	40	3,566	38								
		4	Very much	436	13	3,265	14	3,510	15	1,364	15								
		Total		3,387	100	23,470	100	23,778	100	9,352	100								
b. Speaking clearly and effectively	pgspeak	1	Very little	654	19	5,501	23	4,864	21	2,248	24	2.4	2.3 ***	.13	2.4 *	.04	2.3 ***	.12	
		2	Some	1,176	35	8,552	36	8,365	35	3,322	35								
		3	Quite a bit	1,125	33	7,030	30	7,680	32	2,794	30								
		4	Very much	431	13	2,435	10	2,885	12	987	11								
		Total		3,386	100	23,518	100	23,794	100	9,351	100								
c. Thinking critically and analytically	pgthink	1	Very little	103	3	977	4	877	4	343	4	3.1	3.0 ***	.09	3.0 ***	.06	3.0	.03	
		2	Some	656	19	5,116	22	4,969	21	1,979	21								
		3	Quite a bit	1,548	45	10,728	45	10,819	45	4,096	43								
		4	Very much	1,085	32	6,702	29	7,114	30	2,933	32								
		Total		3,392	100	23,523	100	23,779	100	9,351	100								
d. Analyzing numerical and statistical information	pganalyze	1	Very little	303	9	4,269	17	4,880	19	1,666	16	2.9	2.6 ***	.32	2.5 ***	.36	2.6 ***	.29	
		2	Some	846	25	7,152	30	7,108	30	2,814	29								
		3	Quite a bit	1,283	38	7,800	34	7,528	32	3,062	33								
		4	Very much	955	29	4,296	20	4,265	19	1,812	21								
		Total		3,387	100	23,517	100	23,781	100	9,354	100								

*p<.05, **p<.01, ***p<.001 (2-tailed); Refer to p. 2 for key to triangle symbols. See the endnotes on the last page of this report.

NSSE 2017 Frequencies and Statistical Comparisons

University of Waterloo

1st-Year Students

Frequency Distributions^a

Statistical Comparisons^b

Your 1st-year students compared with

Item wording or description	Variable name ^c	Values ^d	Response options	Frequency Distributions ^a								Statistical Comparisons ^b						
				UWaterloo		U15		ON Institutions		U6		UWaterloo	U15		ON Institutions		U6	
				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	370	11	5,155	22	5,250	22	2,326	24	2.7	2.3 ***	.38	2.3 ***	.39	2.3 ***	.47
		2	Some	1,066	31	8,317	36	8,564	36	3,455	37							
		3	Quite a bit	1,200	36	6,957	29	7,051	30	2,597	28							
		4	Very much	747	22	3,082	13	2,926	12	980	11							
		Total		3,383	100	23,511	100	23,791	100	9,358	100							
f. Working effectively with others	pgothers	1	Very little	285	8	3,141	13	2,892	12	1,335	14	2.7	2.6 ***	.19	2.6 ***	.13	2.6 ***	.19
		2	Some	1,033	30	8,051	34	7,736	32	3,181	33							
		3	Quite a bit	1,363	40	8,487	36	8,887	37	3,286	36							
		4	Very much	709	21	3,831	17	4,264	18	1,551	17							
		Total		3,390	100	23,510	100	23,779	100	9,353	100							
g. Developing or clarifying a personal code of values and ethics	pgvalues	1	Very little	523	16	4,364	19	3,824	16	1,707	18	2.5	2.4 ***	.09	2.5	.01	2.4 ***	.06
		2	Some	1,137	34	8,159	34	7,757	33	3,181	34							
		3	Quite a bit	1,218	36	7,855	33	8,614	36	3,167	34							
		4	Very much	502	15	3,121	14	3,559	15	1,292	14							
		Total		3,380	100	23,499	100	23,754	100	9,347	100							
h. Understanding people of other backgrounds (economic, racial/ethnic, political, religious, nationality, etc.)	pgdiverse	1	Very little	527	16	4,055	17	3,430	15	1,518	16	2.5	2.5	.03	2.6 ***	-.07	2.5	-.01
		2	Some	1,102	33	7,688	32	7,096	30	2,928	32							
		3	Quite a bit	1,165	34	7,765	33	8,486	36	3,188	34							
		4	Very much	583	17	3,977	17	4,740	19	1,704	18							
		Total		3,377	100	23,485	100	23,752	100	9,338	100							
i. Solving complex real-world problems	pgprobsolve	1	Very little	359	11	3,801	16	3,645	15	1,484	15	2.6	2.5 ***	.17	2.5 ***	.15	2.5 ***	.14
		2	Some	1,142	34	8,410	35	8,243	35	3,315	35							
		3	Quite a bit	1,239	37	7,720	33	8,099	34	3,044	33							
		4	Very much	638	19	3,546	16	3,764	16	1,497	17							
		Total		3,378	100	23,477	100	23,751	100	9,340	100							
j. Being an informed and active citizen	pgcitizen	1	Very little	594	18	4,156	18	3,887	17	1,697	18	2.4	2.4	-.02	2.5 ***	-.08	2.4	-.03
		2	Some	1,247	37	8,431	36	8,011	34	3,266	35							
		3	Quite a bit	1,073	32	7,485	32	7,985	34	2,950	32							
		4	Very much	456	14	3,379	15	3,799	16	1,413	15							
		Total		3,370	100	23,451	100	23,682	100	9,326	100							

*p<.05, **p<.01, ***p<.001 (2-tailed); Refer to p. 2 for key to triangle symbols. See the endnotes on the last page of this report.

NSSE 2017 Frequencies and Statistical Comparisons

University of Waterloo

1st-Year Students

Frequency Distributions^a

Statistical Comparisons^b

Your 1st-year students compared with

Item wording or description	Variable name ^c	Values ^d	Response options	UWaterloo				U15				ON Institutions				U6			
				Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%		
18. How would you evaluate your entire educational experience at this institution?																			
	evalexp	1	Poor	113	3	651	3	769	3	296	3	3.1	3.0	.02	3.0 ***	.07	3.0 *	.04	
		2	Fair	554	16	4,000	17	4,344	18	1,732	18								
		3	Good	1,735	51	12,739	53	12,623	52	4,843	51								
		4	Excellent	981	29	6,070	27	5,997	26	2,465	28								
			Total	3,383	100	23,460	100	23,733	100	9,336	100								
19. If you could start over again, would you go to the same institution you are now attending?																			
	sameinst	1	Definitely no	111	3	551	2	788	3	278	3	3.2	3.2	.00	3.2 ***	.09	3.2 **	.06	
		2	Probably no	356	10	2,713	12	3,153	13	1,237	13								
		3	Probably yes	1,546	45	10,876	46	11,193	47	4,347	46								
		4	Definitely yes	1,374	41	9,338	40	8,610	37	3,472	38								
			Total	3,387	100	23,478	100	23,744	100	9,334	100								

*p<.05, **p<.01, ***p<.001 (2-tailed); Refer to p. 2 for key to triangle symbols. See the endnotes on the last page of this report.

NSSE 2017 Frequencies and Statistical Comparisons

University of Waterloo

4th-Year Students

Frequency Distributions^a

Statistical Comparisons^b

Your 4th-year students compared with

Item wording or description	Variable name ^c	Values ^d	Response options	UWaterloo		U15		ON Institutions		U6		UWaterloo		U15		ON Institutions		U6	
				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	279	11	2,164	8	1,700	6	810	7	2.5	2.6 ***	-0.18	2.7 ***	-0.30	2.7 ***	-0.26	
		2	Sometimes	1,150	46	11,530	42	10,262	39	4,884	40								
		3	Often	676	27	7,551	28	7,632	29	3,351	28								
		4	Very often	406	16	5,744	22	6,613	26	2,828	24								
		Total		2,511	100	26,989	100	26,207	100	11,873	100								
b. Prepared two or more drafts of a paper or assignment before turning it in	drafts	1	Never	791	32	7,568	28	6,926	26	3,164	26	2.1	2.2 ***	-0.16	2.3 ***	-0.20	2.3 ***	-0.20	
		2	Sometimes	952	38	9,143	34	8,962	35	4,109	35								
		3	Often	513	20	6,142	23	6,168	24	2,740	23								
		4	Very often	240	9	4,011	15	4,012	15	1,805	15								
		Total		2,496	100	26,864	100	26,068	100	11,818	100								
c. Come to class without completing readings or assignments	unpreparedr <i>(Reverse-coded version of unprepared created by NSSE.)</i>	1	Very often	390	16	3,311	13	3,187	12	1,547	13	2.5	2.6 ***	-0.14	2.6 ***	-0.15	2.6 ***	-0.09	
		2	Often	719	29	6,802	26	6,530	25	3,240	27								
		3	Sometimes	1,121	44	13,193	49	12,949	49	5,687	48								
		4	Never	271	11	3,571	13	3,416	13	1,351	12								
		Total		2,501	100	26,877	100	26,082	100	11,825	100								
d. Attended an art exhibit, play, or other arts performance (dance, music, etc.)	attendart	1	Never	1,262	51	12,555	46	13,396	51	5,477	46	1.6	1.8 ***	-0.12	1.7 **	-0.06	1.8 ***	-0.14	
		2	Sometimes	915	36	9,921	37	8,488	33	4,273	36								
		3	Often	241	10	3,037	12	2,788	11	1,407	12								
		4	Very often	79	3	1,303	5	1,340	5	633	5								
		Total		2,497	100	26,816	100	26,012	100	11,790	100								
e. Asked another student to help you understand course material	CLaskhelp	1	Never	222	9	3,088	11	3,138	12	1,468	12	2.6	2.5 ***	0.08	2.5 ***	0.10	2.5 ***	0.09	
		2	Sometimes	1,059	42	11,736	43	11,369	43	5,101	42								
		3	Often	801	32	8,072	30	7,766	30	3,460	30								
		4	Very often	417	17	3,943	15	3,768	15	1,777	16								
		Total		2,499	100	26,839	100	26,041	100	11,806	100								
f. Explained course material to one or more students	CLexplain	1	Never	111	5	1,309	5	1,171	4	600	5	2.7	2.7	0.00	2.8 *	-0.05	2.7	-0.03	
		2	Sometimes	935	37	10,230	37	9,402	36	4,405	36								
		3	Often	1,024	41	10,429	39	10,233	39	4,475	38								
		4	Very often	424	17	4,825	19	5,189	20	2,293	20								
		Total		2,494	100	26,793	100	25,995	100	11,773	100								

*p<.05, **p<.01, ***p<.001 (2-tailed); Refer to p. 2 for key to triangle symbols. See the endnotes on the last page of this report.

NSSE 2017 Frequencies and Statistical Comparisons

University of Waterloo

4th-Year Students

Frequency Distributions^a

Statistical Comparisons^b

Your 4th-year students compared with

Item wording or description	Variable name ^c	Values ^d	Response options	Frequency Distributions ^a								Statistical Comparisons ^b							
				UWaterloo		U15		ON Institutions		U6		UWaterloo	U15	ON Institutions		U6			
				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	328	13	4,072	15	3,853	15	1,790	15	2.6	2.5	.02	2.5	.01	2.5	.01	
		2	Sometimes	906	36	9,694	36	9,240	35	4,298	36								
		3	Often	829	33	8,004	30	7,882	30	3,443	30								
		4	Very often	432	18	4,992	19	4,980	20	2,231	20								
		Total		2,495	100	26,762	100	25,955	100	11,762	100								
h. Worked with other students on course projects or assignments	CLproject	1	Never	144	6	1,785	7	1,723	7	857	7	2.9	2.9	-.01	2.9	.00	2.9	.03	
		2	Sometimes	681	27	7,572	28	7,421	28	3,509	29								
		3	Often	972	39	9,123	34	9,141	35	3,987	34								
		4	Very often	691	28	8,250	31	7,633	30	3,401	30								
		Total		2,488	100	26,730	100	25,918	100	11,754	100								
i. Given a course presentation	present	1	Never	297	13	2,830	10	2,198	9	1,015	9	2.5	2.6 ***	-.07	2.7 ***	-.19	2.7 ***	-.13	
		2	Sometimes	952	39	10,183	38	9,050	35	4,573	38								
		3	Often	789	31	8,388	31	8,549	33	3,765	32								
		4	Very often	456	18	5,328	20	6,118	24	2,394	21								
		Total		2,494	100	26,729	100	25,915	100	11,747	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	106	4	861	3	757	3	347	3	2.7	2.9 ***	-.18	2.9 ***	-.24	2.9 ***	-.20	
		2	Sometimes	909	37	7,825	30	7,056	28	3,423	29								
		3	Often	1,021	41	11,680	44	11,382	44	5,113	44								
		4	Very often	449	18	6,271	23	6,619	25	2,819	24								
		Total		2,485	100	26,637	100	25,814	100	11,702	100								
b. Connected your learning to societal problems or issues	RIsocietal	1	Never	341	14	2,006	8	1,903	8	853	8	2.4	2.7 ***	-.30	2.7 ***	-.33	2.7 ***	-.32	
		2	Sometimes	1,035	42	9,208	35	8,604	34	4,033	35								
		3	Often	774	30	9,844	36	9,452	36	4,272	36								
		4	Very often	338	13	5,531	20	5,809	22	2,527	21								
		Total		2,488	100	26,589	100	25,768	100	11,685	100								
c. Included diverse perspectives (political, religious, racial/ethnic, gender, etc.) in course discussions or assignments	RIdiverse	1	Never	723	31	5,107	20	4,278	18	2,079	19	2.1	2.4 ***	-.27	2.5 ***	-.38	2.4 ***	-.33	
		2	Sometimes	941	38	9,885	37	8,942	35	4,157	36								
		3	Often	544	21	7,306	27	7,574	29	3,348	28								
		4	Very often	268	10	4,215	16	4,909	18	2,072	17								
		Total		2,476	100	26,513	100	25,703	100	11,656	100								

*p<.05, **p<.01, ***p<.001 (2-tailed); Refer to p. 2 for key to triangle symbols. See the endnotes on the last page of this report.

NSSE 2017 Frequencies and Statistical Comparisons

University of Waterloo

4th-Year Students

Frequency Distributions^a

Statistical Comparisons^b

Your 4th-year students compared with

Item wording or description	Variable name ^c	Values ^d	Response options	Frequency Distributions ^a								Statistical Comparisons ^b							
				UWaterloo		U15		ON Institutions		U6		UWaterloo	U15		ON Institutions		U6		
				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	229	10	1,750	7	1,501	6	749	6	2.5	2.7 ***	-0.17	2.7 ***	-0.23	2.7 ***	-0.20	
		2	Sometimes	982	40	9,286	35	8,491	33	3,966	34								
		3	Often	953	38	11,215	42	11,188	43	5,002	43								
		4	Very often	306	13	4,172	16	4,467	18	1,915	17								
		Total		2,470	100	26,423	100	25,647	100	11,632	100								
e. Tried to better understand someone else's views by imagining how an issue looks from their perspective	Rlperspect	1	Never	145	6	1,098	4	950	4	481	4	2.7	2.8 ***	-0.16	2.9 ***	-0.21	2.9 ***	-0.18	
		2	Sometimes	852	35	7,549	29	6,858	27	3,220	28								
		3	Often	1,029	41	12,082	46	11,825	46	5,307	45								
		4	Very often	442	18	5,579	21	5,893	23	2,574	22								
		Total		2,468	100	26,308	100	25,526	100	11,582	100								
f. Learned something that changed the way you understand an issue or concept	Rlnewview	1	Never	48	2	441	2	449	2	212	2	2.8	2.9 ***	-0.17	3.0 ***	-0.20	3.0 ***	-0.21	
		2	Sometimes	796	33	6,842	26	6,436	26	2,878	25								
		3	Often	1,188	48	12,865	49	12,288	48	5,597	48								
		4	Very often	428	17	6,079	23	6,253	25	2,855	25								
		Total		2,460	100	26,227	100	25,426	100	11,542	100								
g. Connected ideas from your courses to your prior experiences and knowledge	Rlconnect	1	Never	50	2	283	1	292	1	135	1	2.9	3.1 ***	-0.21	3.1 ***	-0.23	3.1 ***	-0.22	
		2	Sometimes	577	24	4,680	18	4,459	18	2,050	18								
		3	Often	1,263	51	13,365	51	12,751	50	5,811	50								
		4	Very often	564	23	7,843	30	7,863	31	3,520	31								
		Total		2,454	100	26,171	100	25,365	100	11,516	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	836	34	8,510	32	7,651	30	3,743	32	2.0	2.0 *	-0.05	2.1 ***	-0.12	2.0 **	-0.07	
		2	Sometimes	1,039	42	11,036	42	10,550	42	4,859	42								
		3	Often	406	16	4,438	17	4,579	18	1,931	17								
		4	Very often	180	7	2,211	9	2,612	10	999	9								
		Total		2,461	100	26,195	100	25,392	100	11,532	100								
b. Worked with a faculty member on activities other than coursework (committees, student groups, etc.)	SFotherwork	1	Never	1,264	51	14,257	54	13,498	53	6,209	53	1.7	1.7	.00	1.7	-0.03	1.7	-0.02	
		2	Sometimes	773	32	7,252	28	6,956	28	3,186	28								
		3	Often	288	12	3,019	12	3,106	12	1,383	12								
		4	Very often	129	5	1,611	6	1,785	7	737	7								
		Total		2,454	100	26,139	100	25,345	100	11,515	100								

*p<.05, **p<.01, ***p<.001 (2-tailed); Refer to p. 2 for key to triangle symbols. See the endnotes on the last page of this report.

NSSE 2017 Frequencies and Statistical Comparisons

University of Waterloo

4th-Year Students

Frequency Distributions^a

Statistical Comparisons^b

Your 4th-year students compared with

Item wording or description	Variable name ^c	Values ^d	Response options	Frequency Distributions ^a								Statistical Comparisons ^b							
				UWaterloo		U15		ON Institutions		U6		UWaterloo	U15	ON Institutions		U6			
				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	786	32	8,333	31	7,754	30	3,465	29	2.0	2.0	-.04	2.0 ***	-.09	2.0 ***	-.10	
		2	Sometimes	1,116	46	11,642	45	10,883	43	5,111	45								
		3	Often	424	17	4,488	17	4,772	19	2,111	19								
		4	Very often	119	5	1,629	6	1,898	8	810	7								
		Total		2,445	100	26,092	100	25,307	100	11,497	100								
d. Discussed your academic performance with a faculty member	SFperform	1	Never	1,014	42	10,934	42	8,813	35	4,396	38	1.8	1.8	-.01	1.9 ***	-.15	1.9 ***	-.09	
		2	Sometimes	1,025	41	10,664	41	10,975	43	4,902	42								
		3	Often	308	13	3,346	13	4,052	16	1,603	14								
		4	Very often	101	4	1,139	4	1,439	6	582	5								
		Total		2,448	100	26,083	100	25,279	100	11,483	100								
4. During the current school year, how much has your coursework emphasized the following?																			
a. Memorizing course material	memorize	1	Very little	166	7	1,625	6	1,735	7	700	6	2.8	2.9 ***	-.11	2.8 ***	-.08	2.9 ***	-.11	
		2	Some	764	32	6,919	27	6,876	28	3,036	28								
		3	Quite a bit	988	40	10,376	40	9,997	39	4,509	39								
		4	Very much	537	22	7,133	27	6,657	26	3,231	27								
		Total		2,455	100	26,053	100	25,265	100	11,476	100								
b. Applying facts, theories, or methods to practical problems or new situations	HOapply	1	Very little	86	4	954	4	916	4	458	4	3.0	3.0	-.02	3.0	-.03	3.0	-.02	
		2	Some	573	23	5,769	22	5,619	22	2,571	22								
		3	Quite a bit	1,133	46	12,225	47	11,547	46	5,272	46								
		4	Very much	660	27	7,083	28	7,159	29	3,163	28								
		Total		2,452	100	26,031	100	25,241	100	11,464	100								
c. Analyzing an idea, experience, or line of reasoning in depth by examining its parts	HOanalyze	1	Very little	130	5	1,320	5	1,198	5	544	5	2.8	2.9 ***	-.08	2.9 ***	-.11	2.9 ***	-.10	
		2	Some	719	29	6,949	27	6,569	26	3,040	26								
		3	Quite a bit	1,061	44	11,302	43	10,742	43	4,869	42								
		4	Very much	530	22	6,396	25	6,693	27	2,985	26								
		Total		2,440	100	25,967	100	25,202	100	11,438	100								
d. Evaluating a point of view, decision, or information source	HOevaluate	1	Very little	245	10	2,269	9	1,848	8	918	8	2.6	2.7 ***	-.11	2.8 ***	-.20	2.8 ***	-.16	
		2	Some	841	35	7,880	31	7,095	28	3,364	30								
		3	Quite a bit	944	38	10,548	40	10,438	41	4,633	40								
		4	Very much	410	17	5,250	20	5,765	23	2,515	22								
		Total		2,440	100	25,947	100	25,146	100	11,430	100								

*p<.05, **p<.01, ***p<.001 (2-tailed); Refer to p. 2 for key to triangle symbols. See the endnotes on the last page of this report.

NSSE 2017 Frequencies and Statistical Comparisons

University of Waterloo

4th-Year Students

Frequency Distributions^a

Statistical Comparisons^b

Your 4th-year students compared with

Item wording or description	Variable name ^c	Values ^d	Response options	UWaterloo				U15				ON Institutions				U6			
				Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%		
e. Forming a new idea or understanding from various pieces of information	HOform	1	Very little	178	7	1,818	7	1,633	7	790	7	2.7	2.7 ***	-0.07	2.8 ***	-0.13	2.8 ***	-0.11	
		2	Some	823	34	7,985	31	7,265	29	3,451	30								
		3	Quite a bit	1,033	42	11,116	43	10,830	43	4,809	42								
		4	Very much	404	17	4,994	19	5,407	21	2,373	21								
		Total		2,438	100	25,913	100	25,135	100	11,423	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	67	3	654	3	753	3	281	3	2.9	3.0 ***	-0.12	3.0 ***	-0.09	3.0 ***	-0.10	
		2	Some	640	26	5,642	22	5,789	23	2,615	23								
		3	Quite a bit	1,241	51	13,305	51	12,347	49	5,841	51								
		4	Very much	494	20	6,304	24	6,232	25	2,671	24								
		Total		2,442	100	25,905	100	25,121	100	11,408	100								
b. Taught course sessions in an organized way	ETorganize	1	Very little	67	3	673	3	830	3	292	3	2.9	2.9 ***	-0.07	2.9 *	-0.04	2.9 **	-0.06	
		2	Some	613	25	5,727	22	5,961	24	2,599	23								
		3	Quite a bit	1,280	53	13,926	54	12,626	50	6,070	53								
		4	Very much	474	19	5,566	22	5,688	23	2,442	22								
		Total		2,434	100	25,892	100	25,105	100	11,403	100								
c. Used examples or illustrations to explain difficult points	ETexample	1	Very little	60	2	780	3	979	4	399	4	2.9	3.0	-0.03	2.9	.02	2.9	.00	
		2	Some	582	24	5,804	22	6,139	24	2,746	24								
		3	Quite a bit	1,221	50	12,801	49	11,624	46	5,417	47								
		4	Very much	576	23	6,495	25	6,360	25	2,842	25								
		Total		2,439	100	25,880	100	25,102	100	11,404	100								
d. Provided feedback on a draft or work in progress	ETdraftfb	1	Very little	543	23	5,513	21	4,892	20	2,365	21	2.3	2.3	-0.02	2.4 ***	-0.10	2.3 *	-0.04	
		2	Some	929	38	10,026	39	9,335	37	4,463	39								
		3	Quite a bit	685	28	7,454	28	7,514	30	3,268	29								
		4	Very much	270	11	2,875	11	3,334	13	1,304	12								
		Total		2,427	100	25,868	100	25,075	100	11,400	100								
e. Provided prompt and detailed feedback on tests or completed assignments	ETfeedback	1	Very little	221	9	3,413	13	3,262	13	1,556	13	2.5	2.4 ***	.07	2.5	.03	2.4 ***	.08	
		2	Some	1,043	43	10,590	41	9,922	39	4,772	41								
		3	Quite a bit	902	37	9,048	35	8,784	35	3,843	34								
		4	Very much	258	11	2,757	11	3,049	12	1,199	11								
		Total		2,424	100	25,808	100	25,017	100	11,370	100								

*p<.05, **p<.01, ***p<.001 (2-tailed); Refer to p. 2 for key to triangle symbols. See the endnotes on the last page of this report.

4th-Year Students

Frequency Distributions^a

Statistical Comparisons^b

Your 4th-year students compared with

Item wording or description	Variable name ^c	Values ^d	Response options	UWaterloo				U15				ON Institutions				U6			
				Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%
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	253	10	4,125	15	4,094	15	1,791	15	2.7	2.5 ***	.19	2.5 ***	.19	2.5 ***	.16	
		2	Sometimes	807	32	9,413	36	8,935	35	4,040	35								
		3	Often	899	38	8,328	33	8,151	33	3,693	33								
		4	Very often	459	20	3,905	16	3,824	16	1,831	17								
		Total		2,418	100	25,771	100	25,004	100	11,355	100								
b. Used numerical information to examine a real-world problem or issue (unemployment, climate change, public health, etc.)	QRproblem	1	Never	537	22	6,465	25	6,044	23	2,725	23	2.3	2.2 **	.06	2.3	.02	2.3	.02	
		2	Sometimes	971	40	10,258	39	9,898	39	4,506	39								
		3	Often	649	27	6,437	25	6,377	26	2,900	26								
		4	Very often	261	11	2,594	11	2,672	11	1,223	12								
		Total		2,418	100	25,754	100	24,991	100	11,354	100								
c. Evaluated what others have concluded from numerical information	QRevaluate	1	Never	348	14	5,110	19	4,785	18	2,074	18	2.4	2.3 ***	.08	2.3 **	.06	2.4	.03	
		2	Sometimes	1,044	43	10,367	40	10,138	40	4,526	39								
		3	Often	780	32	7,626	30	7,360	30	3,451	31								
		4	Very often	256	11	2,713	11	2,772	12	1,339	12								
		Total		2,428	100	25,816	100	25,055	100	11,390	100								
7. During the current school year, about how many papers, reports, or other writing tasks of the following lengths have you been assigned? (Include those not yet completed.)																			
a. Up to 5 pages	wrshortnum <i>(Recorded version of wrshort created by NSSE. Values are estimated number of papers, reports, etc.)</i>	0	None	129	6	1,400	6	957	4	466	4	7.5	7.2 *	.05	7.7	-.04	7.6	-.01	
		1.5	1-2	402	17	4,412	18	3,669	16	1,757	16								
		4	3-5	692	29	7,128	29	6,915	30	3,157	29								
		8	6-10	546	23	5,766	24	6,052	26	2,760	26								
		13	11-15	283	12	2,660	11	2,755	12	1,239	12								
		18	16-20	122	5	1,239	5	1,327	6	574	5								
		23	More than 20	179	8	1,578	7	1,809	8	755	7								
Total		2,353	100	24,183	100	23,484	100	10,708	100										
b. Between 6 and 10 pages	wrmednum <i>(Recorded version of wrmed created by NSSE. Values are estimated number of papers, reports, etc.)</i>	0	None	364	16	3,581	15	2,599	11	1,240	12	4.4	4.2	.04	4.8 ***	-.08	4.6	-.04	
		1.5	1-2	696	30	7,417	31	6,549	28	3,125	30								
		4	3-5	704	30	7,177	30	7,472	32	3,375	31								
		8	6-10	338	15	3,871	16	4,336	18	1,899	17								
		13	11-15	139	6	1,254	5	1,473	6	647	6								
		18	16-20	48	2	408	2	460	2	176	2								
		23	More than 20	47	2	375	2	494	2	198	2								
Total		2,336	100	24,083	100	23,383	100	10,660	100										

*p<.05, **p<.01, ***p<.001 (2-tailed); Refer to p. 2 for key to triangle symbols. See the endnotes on the last page of this report.

NSSE 2017 Frequencies and Statistical Comparisons

University of Waterloo

4th-Year Students

Frequency Distributions^a

Statistical Comparisons^b

Your 4th-year students compared with

Item wording or description	Variable name ^c	Values ^d	Response options	Frequency Distributions ^a								Statistical Comparisons ^b							
				UWaterloo		U15		ON Institutions		U6		UWaterloo	U15	ON Institutions		U6			
				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	670	28	7,414	31	6,407	28	2,926	28	3.1	2.7 *** ▲	.09	3.0	.02	2.9 *	.05	
	(Recorded version of wrlong created by NSSE. Values are estimated number of papers, reports, etc.)	1.5	1-2	875	37	9,401	39	9,185	39	4,253	40								
		4	3-5	465	20	4,385	18	4,519	19	2,042	19								
		8	6-10	193	8	1,752	7	1,855	8	871	8								
		13	11-15	67	3	651	3	779	3	305	3								
		18	16-20	34	1	257	1	287	1	116	1								
	23	More than 20	45	2	322	1	401	2	163	2									
		Total		2,349	100	24,182	100	23,433	100	10,676	100								
Estimated number of assigned pages of student writing.	wrpages											103.0	95.8 ** ▲	.07	106.2	-.03	102.3	.01	
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	107	5	943	4	883	4	338	3	3.1	3.2	-.01	3.2 *	-.04	3.2 ***	-.09	
		2	Sometimes	470	20	5,316	21	4,688	20	1,996	19								
		3	Often	738	31	7,415	30	7,211	30	3,173	30								
		4	Very often	1,045	44	10,605	45	10,731	46	5,201	48								
			Total	2,360	100	24,279	100	23,513	100	10,708	100								
b. People from an economic background other than your own	DDeconomic	1	Never	112	5	1,062	4	958	4	411	4	3.0	3.0	-.01	3.0 ***	-.08	3.0 ***	-.08	
		2	Sometimes	633	27	6,722	27	5,779	24	2,696	25								
		3	Often	830	35	8,602	35	8,471	36	3,720	35								
		4	Very often	770	33	7,850	33	8,250	36	3,861	36								
			Total	2,345	100	24,236	100	23,458	100	10,688	100								
c. People with religious beliefs other than your own	DDreligion	1	Never	131	6	1,321	5	1,073	5	457	4	3.0	3.0	.04	3.1 *	-.05	3.1 **	-.07	
		2	Sometimes	550	24	6,440	26	5,416	23	2,438	23								
		3	Often	789	34	8,035	33	7,907	33	3,546	33								
		4	Very often	878	37	8,436	35	9,075	39	4,245	40								
			Total	2,348	100	24,232	100	23,471	100	10,686	100								
d. People with political views other than your own	DDpolitical	1	Never	167	7	1,473	6	1,418	6	647	6	2.7	2.8 ** ▼	-.06	2.8 ***	-.10	2.8 ***	-.09	
		2	Sometimes	879	37	8,489	35	7,839	33	3,699	34								
		3	Often	713	30	8,015	33	7,645	32	3,397	32								
		4	Very often	582	25	6,262	26	6,552	28	2,947	28								
			Total	2,341	100	24,239	100	23,454	100	10,690	100								

*p<.05, **p<.01, ***p<.001 (2-tailed); Refer to p. 2 for key to triangle symbols. See the endnotes on the last page of this report.

NSSE 2017 Frequencies and Statistical Comparisons

University of Waterloo

4th-Year Students

Frequency Distributions^a

Statistical Comparisons^b

Your 4th-year students compared with

Item wording or description	Variable name ^c	Values ^d	Response options	Frequency Distributions ^a						Statistical Comparisons ^b									
				UWaterloo		U15		ON Institutions		U6		UWaterloo		U15		ON Institutions		U6	
				Count	%	Count	%	Count	%	Count	%	Mean	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	80	4	714	3	620	3	276	3	2.9	3.0 ***	-0.16	3.0 ***	-0.19	3.1 ***	-0.20	
		2	Sometimes	614	27	5,093	21	4,750	20	2,145	20								
		3	Often	1,082	46	10,937	45	10,724	46	4,771	45								
		4	Very often	572	24	7,424	30	7,291	31	3,473	32								
		Total		2,348	100	24,168	100	23,385	100	10,665	100								
b. Reviewed your notes after class	LSnotes	1	Never	326	14	3,307	14	3,372	14	1,574	15	2.4	2.5 ***	-0.13	2.5 ***	-0.09	2.5 ***	-0.08	
		2	Sometimes	1,100	47	9,621	40	9,539	41	4,344	41								
		3	Often	600	26	6,732	28	6,458	27	2,891	27								
		4	Very often	324	14	4,513	18	4,016	17	1,856	17								
		Total		2,350	100	24,173	100	23,385	100	10,665	100								
c. Summarized what you learned in class or from course materials	LSsummary	1	Never	259	11	2,403	10	2,451	11	1,133	11	2.6	2.7 ***	-0.10	2.6 **	-0.06	2.6 ***	-0.08	
		2	Sometimes	894	38	8,245	34	8,341	36	3,704	35								
		3	Often	773	33	8,348	34	7,957	34	3,554	33								
		4	Very often	420	18	5,123	21	4,580	20	2,238	21								
		Total		2,346	100	24,119	100	23,329	100	10,629	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	34	2	260	1	278	1	110	1	5.0	5.2 ***	-0.16	5.2 ***	-0.15	5.2 ***	-0.16	
		2		58	3	431	2	428	2	173	2								
		3		161	7	1,310	6	1,363	6	578	6								
		4		381	16	3,255	14	3,164	14	1,442	14								
		5		846	36	8,532	35	8,137	35	3,794	36								
		6		570	24	6,147	26	5,844	25	2,748	26								
		7	Very much	295	12	4,135	17	4,069	17	1,778	16								
		Total		2,345	100	24,070	100	23,283	100	10,623	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	169	7	2,527	10	2,750	12	1,231	11	65%	49% ***	.32	45% ***	.41	46% ***	.38	
			Do not plan to do	365	15	5,957	25	6,195	27	2,765	26								
			Plan to do	310	13	3,968	16	3,971	17	1,800	17								
			Done or in progress	1,505	65	11,603	49	10,378	45	4,815	46								
			Total	2,349	100	24,055	100	23,294	100	10,611	100								

*p<.05, **p<.01, ***p<.001 (2-tailed); Refer to p. 2 for key to triangle symbols. See the endnotes on the last page of this report.

NSSE 2017 Frequencies and Statistical Comparisons

University of Waterloo

4th-Year Students

Frequency Distributions^a

Statistical Comparisons^b

Your 4th-year students compared with

Item wording or description	Variable name ^c	Values ^d	Response options	UWaterloo				U15				ON Institutions				U6			
				Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%
b. Hold a formal leadership role in a student organization or group	leader <i>(Means indicate the percentage who responded "Done or in progress.")</i>		Have not decided	207	9	2,339	9	2,478	11	1,037	10	37%	35%	.03	34% **	.06	38%	-.03	
			Do not plan to do	1,046	45	11,646	47	11,206	47	4,839	44								
			Plan to do	209	9	1,866	8	1,922	8	825	8								
			Done or in progress	877	37	8,178	35	7,665	34	3,911	38								
			Total	2,339	100	24,029	100	23,271	100	10,612	100								
c. Participate in a learning community or some other formal program where groups of students take two or more classes together	learncom <i>(Means indicate the percentage who responded "Done or in progress.")</i>		Have not decided	258	11	3,236	13	3,383	14	1,505	14	20%	18% *	.05	18% **	.07	18% **	.06	
			Do not plan to do	1,364	58	14,181	59	13,307	57	6,204	58								
			Plan to do	236	10	2,160	9	2,404	11	995	10								
			Done or in progress	479	20	4,372	18	4,074	18	1,856	18								
			Total	2,337	100	23,949	100	23,168	100	10,560	100								
d. Participate in a study abroad program	abroad <i>(Means indicate the percentage who responded "Done or in progress.")</i>		Have not decided	245	11	2,875	12	3,106	13	1,295	12	12%	12%	.01	9% ***	.08	12%	.01	
			Do not plan to do	1,594	69	16,314	68	15,734	68	7,085	68								
			Plan to do	202	9	2,051	8	2,184	9	967	9								
			Done or in progress	297	12	2,753	12	2,193	9	1,237	12								
			Total	2,338	100	23,993	100	23,217	100	10,584	100								
e. Work with a faculty member on a research project	research <i>(Means indicate the percentage who responded "Done or in progress.")</i>		Have not decided	257	11	3,265	13	3,379	15	1,411	13	26%	25%	.01	23% **	.07	26%	-.01	
			Do not plan to do	1,146	49	11,438	47	11,248	48	4,847	45								
			Plan to do	343	15	3,398	14	3,310	15	1,607	15								
			Done or in progress	591	26	5,876	25	5,264	23	2,711	26								
			Total	2,337	100	23,977	100	23,201	100	10,576	100								
f. Complete a culminating senior experience (capstone course, senior project or thesis, comprehensive exam, portfolio, etc.)	capstone <i>(Means indicate the percentage who responded "Done or in progress.")</i>		Have not decided	215	9	2,968	12	2,801	12	1,312	12	42%	32% ***	.20	33% ***	.18	33% ***	.18	
			Do not plan to do	821	34	9,932	40	9,294	39	4,388	40								
			Plan to do	339	14	3,716	16	3,514	16	1,580	16								
			Done or in progress	960	42	7,346	32	7,567	33	3,289	33								
			Total	2,335	100	23,962	100	23,176	100	10,569	100								
12. About how many of your courses at this institution have included a community-based project (service-learning)?																			
	servcourse		1 None	1,394	60	13,123	55	11,864	52	5,787	55	1.5	1.5 **	-.06	1.6 ***	-.14	1.5 **	-.06	
			2 Some	773	33	9,291	38	9,498	41	4,201	40								
			3 Most	129	6	1,253	5	1,443	6	475	5								
			4 All	28	1	261	1	313	1	90	1								
			Total	2,324	100	23,928	100	23,118	100	10,553	100								

*p<.05, **p<.01, ***p<.001 (2-tailed); Refer to p. 2 for key to triangle symbols. See the endnotes on the last page of this report.

NSSE 2017 Frequencies and Statistical Comparisons

University of Waterloo

4th-Year Students

Frequency Distributions^a

Statistical Comparisons^b

Your 4th-year students compared with

Item wording or description	Variable name ^c	Values ^d	Response options	UWaterloo				U15				ON Institutions				U6			
				Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%
13. Indicate the quality of your interactions with the following people at your institution.																			
a. Students	QIstudent	1	Poor	35	2	319	1	367	2	173	2	5.3	5.4 ***	-0.09	5.4 ***	-0.07	5.4	-0.04	
		2		51	2	506	2	498	2	252	2								
		3		113	5	1,149	5	1,142	5	582	5								
		4		290	12	2,699	11	2,752	12	1,246	12								
		5		694	30	6,459	27	6,141	26	2,887	27								
		6		661	28	6,914	29	6,504	28	3,018	29								
		7	Excellent	476	20	5,785	24	5,650	25	2,365	23								
		—	Not applicable	17	1	143	1	130	1	48	0								
		Total		2,337	100	23,974	100	23,184	100	10,571	100								
b. Academic advisors	QIadvisor	1	Poor	145	6	1,593	7	1,624	7	798	7	4.5	4.5	.02	4.6	-0.02	4.4 **	.06	
		2		175	7	1,677	7	1,643	7	837	8								
		3		241	10	2,401	10	2,386	10	1,186	11								
		4		408	18	3,712	16	3,639	16	1,716	16								
		5		504	22	4,770	20	4,656	20	2,148	20								
		6		385	17	3,565	15	3,568	16	1,512	15								
		7	Excellent	284	12	2,970	12	3,354	15	1,159	12								
		—	Not applicable	191	9	3,263	14	2,294	10	1,202	11								
		Total		2,333	100	23,951	100	23,164	100	10,558	100								
c. Faculty	QIfaculty	1	Poor	64	3	655	3	730	3	352	3	4.9	5.0 **	-0.06	5.0 *	-0.04	4.9	-0.02	
		2		98	4	953	4	993	4	471	4								
		3		189	8	1,811	7	1,924	8	905	8								
		4		402	17	3,889	16	3,808	16	1,788	16								
		5		673	29	6,908	29	6,326	27	2,972	28								
		6		565	24	5,956	25	5,508	24	2,467	24								
		7	Excellent	274	12	3,373	14	3,533	16	1,421	14								
		—	Not applicable	60	3	365	2	298	1	166	1								
		Total		2,325	100	23,910	100	23,120	100	10,542	100								

*p<.05, **p<.01, ***p<.001 (2-tailed); Refer to p. 2 for key to triangle symbols. See the endnotes on the last page of this report.

NSSE 2017 Frequencies and Statistical Comparisons

University of Waterloo

4th-Year Students

Frequency Distributions^a

Statistical Comparisons^b

Your 4th-year students compared with

Item wording or description	Variable name ^c	Values ^d	Response options	Frequency Distributions ^a								Statistical Comparisons ^b							
				UWaterloo		U15		ON Institutions		U6		UWaterloo	U15	ON Institutions		U6			
				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.)	QIstaff	1	Poor	133	6	1,364	6	1,534	6	705	6	4.4	4.5 *	-0.06	4.5	-0.04	4.4	.00	
		2		145	6	1,452	6	1,524	6	732	7								
		3		232	10	2,066	9	2,134	9	1,000	9								
		4		433	19	3,569	15	3,450	15	1,681	16								
		5		494	21	4,537	19	4,374	19	2,053	20								
		6		325	14	3,399	14	3,280	15	1,404	14								
		7	Excellent	197	8	2,266	10	2,343	10	915	9								
		—	Not applicable	358	16	5,254	21	4,466	19	2,058	19								
	Total			2,317	100	23,907	100	23,105	100	10,548	100								
e. Other administrative staff and offices (registrar, financial aid, etc.)	QIadmin	1	Poor	116	5	1,399	6	1,621	7	740	6	4.5	4.5 *	-0.05	4.5	-0.02	4.5	-0.02	
		2		161	7	1,581	6	1,730	7	793	7								
		3		230	10	2,219	9	2,409	10	1,147	10								
		4		496	21	3,986	17	4,003	17	1,844	17								
		5		567	24	5,266	22	5,249	23	2,441	23								
		6		366	16	3,910	16	3,873	17	1,720	17								
		7	Excellent	196	8	2,539	11	2,564	11	1,076	11								
		—	Not applicable	202	9	3,030	13	1,697	8	793	7								
	Total			2,334	100	23,930	100	23,146	100	10,554	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	30	1	353	1	444	2	150	1	3.3	3.2 ***	.17	3.1 ***	.26	3.2 ***	.13	
		2	Some	282	13	3,590	15	3,987	18	1,486	15								
		3	Quite a bit	869	38	10,578	45	10,246	45	4,448	43								
		4	Very much	1,128	48	8,896	39	7,908	35	4,219	41								
			Total	2,309	100	23,417	100	22,585	100	10,303	100								
b. Providing support to help students succeed academically	SEacademic	1	Very little	184	8	1,911	8	1,839	8	912	9	2.5	2.6 **	-0.07	2.6 ***	-0.13	2.6 ***	-0.08	
		2	Some	968	42	8,813	38	8,065	36	3,891	37								
		3	Quite a bit	898	39	9,922	42	9,400	42	4,228	42								
		4	Very much	256	11	2,699	12	3,191	14	1,241	13								
			Total	2,306	100	23,345	100	22,495	100	10,272	100								
c. Using learning support services (tutoring services, writing center, etc.)	SElearnsup	1	Very little	362	16	3,442	15	3,090	14	1,448	14	2.3	2.4 ***	-0.11	2.5 ***	-0.20	2.5 ***	-0.16	
		2	Some	986	43	8,991	39	7,926	35	3,790	37								
		3	Quite a bit	740	32	8,360	36	8,287	37	3,804	37								
		4	Very much	209	9	2,568	11	3,241	14	1,250	12								
			Total	2,297	100	23,361	100	22,544	100	10,292	100								

*p<.05, **p<.01, ***p<.001 (2-tailed); Refer to p. 2 for key to triangle symbols. See the endnotes on the last page of this report.

NSSE 2017 Frequencies and Statistical Comparisons

University of Waterloo

4th-Year Students

Frequency Distributions^a

Statistical Comparisons^b

Your 4th-year students compared with

Item wording or description	Variable name ^c	Values ^d	Response options	Frequency Distributions ^a								Statistical Comparisons ^b						
				UWaterloo		U15		ON Institutions		U6		UWaterloo	U15		ON Institutions		U6	
				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	585	25	5,639	24	5,119	23	2,653	25	2.2	2.3 *	-.05	2.3 ***	-.12	2.3 *	-.05
		2	Some	873	38	8,640	37	7,877	35	3,624	35							
		3	Quite a bit	599	26	6,530	28	6,507	29	2,803	28							
		4	Very much	241	10	2,522	11	2,983	13	1,186	12							
		Total		2,298	100	23,331	100	22,486	100	10,266	100							
e. Providing opportunities to be involved socially	SEsocial	1	Very little	370	17	2,749	12	2,795	12	1,342	12	2.4	2.6 ***	-.24	2.6 ***	-.24	2.6 ***	-.22
		2	Some	922	40	8,133	34	7,662	34	3,624	34							
		3	Quite a bit	764	33	9,162	39	8,496	38	3,825	38							
		4	Very much	237	10	3,303	15	3,547	16	1,486	16							
		Total		2,293	100	23,347	100	22,500	100	10,277	100							
f. Providing support for your overall well-being (recreation, health care, counseling, etc.)	SEwellness	1	Very little	422	19	3,364	14	3,390	15	1,634	15	2.3	2.5 ***	-.19	2.5 ***	-.19	2.5 ***	-.19
		2	Some	894	39	7,965	34	7,630	33	3,521	33							
		3	Quite a bit	736	32	8,725	37	8,129	36	3,696	37							
		4	Very much	247	11	3,241	14	3,318	15	1,412	15							
		Total		2,299	100	23,295	100	22,467	100	10,263	100							
g. Helping you manage your non-academic responsibilities (work, family, etc.)	SEnonacad	1	Very little	972	42	9,637	41	9,410	41	4,454	42	1.8	1.8	-.02	1.9 *	-.05	1.8	-.01
		2	Some	870	38	8,792	38	8,109	36	3,740	37							
		3	Quite a bit	347	15	3,907	17	3,768	17	1,635	17							
		4	Very much	106	5	952	4	1,177	5	428	4							
		Total		2,295	100	23,288	100	22,464	100	10,257	100							
h. Attending campus activities and events (performing arts, athletic events, etc.)	SEactivities	1	Very little	641	28	4,287	18	4,600	20	2,018	19	2.1	2.3 ***	-.31	2.3 ***	-.27	2.3 ***	-.28
		2	Some	1,015	44	9,387	40	9,025	40	4,305	42							
		3	Quite a bit	505	22	7,543	32	6,711	30	3,078	30							
		4	Very much	133	6	2,064	9	2,115	10	860	9							
		Total		2,294	100	23,281	100	22,451	100	10,261	100							
i. Attending events that address important social, economic, or political issues	SEevents	1	Very little	616	27	5,218	22	5,225	23	2,416	23	2.1	2.2 ***	-.14	2.2 ***	-.14	2.2 ***	-.12
		2	Some	1,034	45	10,210	44	9,618	43	4,502	44							
		3	Quite a bit	522	23	6,312	27	5,901	27	2,680	26							
		4	Very much	119	5	1,506	7	1,665	8	643	7							
		Total		2,291	100	23,246	100	22,409	100	10,241	100							

*p<.05, **p<.01, ***p<.001 (2-tailed); Refer to p. 2 for key to triangle symbols. See the endnotes on the last page of this report.

NSSE 2017 Frequencies and Statistical Comparisons

University of Waterloo

4th-Year Students

Frequency Distributions^a

Statistical Comparisons^b

Your 4th-year students compared with

Item wording or description	Variable name ^c	Values ^d Response options		UWaterloo				U15				ON Institutions				U6				UWaterloo				U15				ON Institutions				U6			
				Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%
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)	tmprephrs	0	0 hrs	25	1	159	1	153	1	70	1	17.3	17.0	.04	16.5 ***	.09	17.2	.01																	
	(Recorded version of tmprep created by NSSE. Values are estimated number of hours per week.)	3	1-5 hrs	234	10	2,713	11	2,728	12	1,070	10																								
	8	6-10 hrs	374	16	4,137	18	4,226	19	1,760	17																									
	13	11-15 hrs	397	17	4,183	18	4,142	18	1,895	19																									
	18	16-20 hrs	442	19	4,135	18	3,924	17	1,842	18																									
	23	21-25 hrs	327	14	2,971	13	2,821	13	1,384	13																									
	28	26-30 hrs	178	8	1,936	8	1,737	8	869	8																									
	33	More than 30 hrs	318	14	3,022	13	2,712	12	1,365	13																									
	Total			2,295	100	23,256	100	22,443	100	10,255	100																								
b. Participating in co- curricular activities (organizations, campus publications, student government, fraternity or sorority, intercollegiate or intramural sports, etc.)	tmcoccrrhrs	0	0 hrs	678	29	8,931	37	8,857	38	3,513	33	5.7	5.1 ***	.09	5.1 ***	.08	5.7	.00																	
	(Recorded version of tmcocurr created by NSSE. Values are estimated number of hours per week.)	3	1-5 hrs	834	37	7,481	32	6,935	31	3,327	33																								
	8	6-10 hrs	350	15	3,216	14	2,982	14	1,568	16																									
	13	11-15 hrs	213	9	1,642	7	1,635	8	823	8																									
	18	16-20 hrs	101	4	1,005	5	1,022	5	513	5																									
	23	21-25 hrs	67	3	488	2	471	2	247	3																									
	28	26-30 hrs	13	1	186	1	217	1	101	1																									
	33	More than 30 hrs	29	1	246	1	272	1	131	1																									
	Total			2,285	100	23,195	100	22,391	100	10,223	100																								
c. Working for pay on campus	tmworkonhrs	0	0 hrs	1,706	75	18,388	78	17,180	76	7,767	75	2.9	2.5 **	.07	2.7	.02	2.9	.00																	
	(Recorded version of tmworkon created by NSSE. Values are estimated number of hours per week.)	3	1-5 hrs	167	7	1,218	6	1,120	5	561	6																								
	8	6-10 hrs	160	7	1,505	7	1,729	8	813	8																									
	13	11-15 hrs	104	4	958	4	1,135	5	523	5																									
	18	16-20 hrs	72	3	554	2	616	3	279	3																									
	23	21-25 hrs	44	2	293	1	312	1	144	2																									
	28	26-30 hrs	11	0	97	0	125	1	49	0																									
	33	More than 30 hrs	26	1	208	1	189	1	105	1																									
	Total			2,290	100	23,221	100	22,406	100	10,241	100																								

*p<.05, **p<.01, ***p<.001 (2-tailed); Refer to p. 2 for key to triangle symbols. See the endnotes on the last page of this report.

NSSE 2017 Frequencies and Statistical Comparisons

University of Waterloo

4th-Year Students

Frequency Distributions^a

Statistical Comparisons^b

Your 4th-year students compared with

Item wording or description	Variable name ^c	Values ^d	Response options	UWaterloo				U15				ON Institutions				U6				UWaterloo		U15		ON Institutions		U6				
				Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Mean	Effect size ^e	Mean	Effect size ^e	Mean	Effect size ^e	Mean
d. Working for pay off campus	tmworkoffhrs	0	0 hrs	1,648	73	11,276	51	10,515	49	5,320	55	4.0	7.6 *** ▼	-0.36	8.5 *** ▼	-0.43	7.1 *** ▼	-0.32												
	(Recorded version of tmworkoff created by NSSE. Values are estimated number of hours per week.)	3	1-5 hrs	114	5	1,598	7	1,395	6	651	6																			
		8	6-10 hrs	142	6	2,278	10	2,009	9	883	8																			
		13	11-15 hrs	120	5	2,558	10	2,357	10	1,091	10																			
		18	16-20 hrs	109	5	2,405	10	2,421	10	981	9																			
		23	21-25 hrs	76	3	1,369	6	1,516	6	558	5																			
		28	26-30 hrs	29	1	604	2	819	3	270	2																			
		33	More than 30 hrs	52	2	1,139	5	1,370	6	489	5																			
		Total			2,290	100	23,227	100	22,402	100	10,243	100																		
Estimated number of hours working for pay	tmworkhrs											6.8	10.0 *** ▼	-0.28	11.2 *** ▼	-0.37	9.9 *** ▼	-0.27												
e. Doing community service or volunteer work	tmservicehrs	0	0 hrs	1,381	61	11,989	52	11,296	51	5,139	51	2.9	3.1	-0.03	3.4 *** ▼	-0.08	3.2 ** ▼	-0.06												
	(Recorded version of tmservice created by NSSE. Values are estimated number of hours per week.)	3	1-5 hrs	547	23	7,170	30	6,676	29	3,171	31																			
		8	6-10 hrs	148	6	2,200	9	2,323	10	1,048	10																			
		13	11-15 hrs	95	4	928	4	990	4	441	4																			
		18	16-20 hrs	56	3	478	2	540	2	221	2																			
		23	21-25 hrs	38	2	232	1	306	1	113	1																			
		28	26-30 hrs	8	0	76	0	84	0	34	0																			
		33	More than 30 hrs	13	1	136	1	182	1	71	1																			
		Total	2,286	100	23,209	100	22,397	100	10,238	100																				
f. Relaxing and socializing (time with friends, video games, TV or videos, keeping up with friends online, etc.)	tmrelaxhrs	0	0 hrs	32	2	361	2	408	2	184	2	14.3	12.4 *** ▲	.23	12.5 *** ▲	.22	12.6 *** ▲	.20												
	(Recorded version of tmrelax created by NSSE. Values are estimated number of hours per week.)	3	1-5 hrs	312	13	4,638	19	4,628	20	1,964	18																			
		8	6-10 hrs	589	25	6,539	28	6,072	27	2,798	27																			
		13	11-15 hrs	510	22	5,105	22	4,806	22	2,311	23																			
		18	16-20 hrs	383	17	3,278	15	3,091	14	1,434	14																			
		23	21-25 hrs	179	8	1,414	6	1,417	7	654	7																			
		28	26-30 hrs	86	4	636	3	603	3	282	3																			
		33	More than 30 hrs	196	9	1,241	6	1,356	6	604	6																			
		Total	2,287	100	23,212	100	22,381	100	10,231	100																				

*p<.05, **p<.01, ***p<.001 (2-tailed); Refer to p. 2 for key to triangle symbols. See the endnotes on the last page of this report.

NSSE 2017 Frequencies and Statistical Comparisons

University of Waterloo

4th-Year Students

Frequency Distributions^a

Statistical Comparisons^b

Your 4th-year students compared with

Item wording or description	Variable name ^c	Values ^d	Response options	Frequency Distributions ^a								Statistical Comparisons ^b												
				UWaterloo		U15		ON Institutions		U6		UWaterloo	U15	ON Institutions		U6								
				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	0	0 hrs	1,792	78	17,026	74	15,502	70	7,454	74	2.3	2.6 *	-0.05	3.2 ***	-0.13	2.5	-0.04						
	(Recorded version of tmcare created by NSSE. Values are estimated number of hours per week.)	3	1-5 hrs	207	9	3,017	13	3,144	14	1,352	13													
	8	6-10 hrs	98	4	1,084	5	1,257	6	537	5														
	13	11-15 hrs	75	3	653	3	817	4	319	3														
	18	16-20 hrs	48	2	439	2	517	2	213	2														
	23	21-25 hrs	31	1	241	1	310	1	120	1														
	28	26-30 hrs	6	0	121	1	135	1	46	0														
	33	More than 30 hrs	31	1	585	2	681	3	172	2														
	Total				2,288	100	23,166	100	22,363	100	10,213								100					
h. Commuting to campus (driving, walking, etc.)	tmcommutehrs	0	0 hrs	130	6	1,263	6	1,499	7	605	6	5.5	6.9 ***	-0.23	7.1 ***	-0.25	6.9 ***	-0.23						
	(Recorded version of tmcommute created by NSSE. Values are estimated number of hours per week.)	3	1-5 hrs	1,472	64	10,905	47	10,278	46	4,718	48													
	8	6-10 hrs	427	18	6,400	27	5,763	25	2,624	25														
	13	11-15 hrs	130	6	2,880	12	2,777	12	1,359	12														
	18	16-20 hrs	64	3	990	4	1,109	5	529	5														
	23	21-25 hrs	36	2	360	2	440	2	185	2														
	28	26-30 hrs	11	1	132	1	170	1	75	1														
	33	More than 30 hrs	23	1	282	1	370	2	141	1														
	Total				2,293	100	23,212	100	22,406	100	10,236								100					
16. Of the time you spend preparing for class in a typical 7-day week, about how much is on assigned reading?																								
reading	1	Very little	567	26	4,209	19	3,863	18	1,732	18	2.4	2.7 ***	-0.25	2.8 ***	-0.30	2.8 ***	-0.30							
	2	Some	748	33	6,576	29	5,983	27	2,752	28														
	3	About half	454	19	5,260	22	5,175	23	2,283	22														
	4	Most	350	15	4,817	20	4,850	21	2,285	22														
	5	Almost all	163	7	2,333	10	2,499	11	1,173	11														
	Total				2,282	100	23,195	100	22,370	100								10,225	100					
tmreadinghrs	(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)																	6.6	7.5 ***	-0.14	7.6 ***	-0.15	7.8 ***	-0.19

*p<.05, **p<.01, ***p<.001 (2-tailed); Refer to p. 2 for key to triangle symbols. See the endnotes on the last page of this report.

NSSE 2017 Frequencies and Statistical Comparisons

University of Waterloo

4th-Year Students

Frequency Distributions^a

Statistical Comparisons^b

Your 4th-year students compared with

Item wording or description	Variable name ^c	Values ^d	Response options	Frequency Distributions ^a								Statistical Comparisons ^b							
				UWaterloo		U15		ON Institutions		U6		UWaterloo		U15		ON Institutions		U6	
				Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size ^e	Mean	Effect size ^e	Mean	Effect size ^e	
(Collapsed version of tmreadinghrs created by NSSE.)	tmreadinghrscol	1	0 hrs	25	1	157	1	153	1	70	1								
		2	More than zero, up to 5 hrs	1,169	53	10,516	46	9,959	45	4,326	44								
		3	More than 5, up to 10 hrs	613	27	6,664	29	6,470	29	3,001	29								
		4	More than 10, up to 15 hrs	203	8	2,434	10	2,351	10	1,137	11								
		5	More than 15, up to 20 hrs	137	6	1,596	7	1,595	7	780	7								
		6	More than 20, up to 25 hrs	88	4	1,207	5	1,213	5	600	6								
		7	More than 25 hrs	42	2	566	2	566	2	285	3								
		Total		2,277	100	23,140	100	22,307	100	10,199	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	176	8	1,457	6	1,305	6	571	6	2.8	2.9 ***	-.13	2.9 ***	-.18	3.0 ***	-.20	
		2	Some	628	28	5,637	25	5,160	23	2,313	23								
		3	Quite a bit	973	42	9,721	42	9,516	42	4,335	42								
		4	Very much	508	22	6,311	27	6,348	29	2,982	30								
		Total		2,285	100	23,126	100	22,329	100	10,201	100								
b. Speaking clearly and effectively	pgspeak	1	Very little	254	11	2,392	10	2,217	10	1,034	10	2.6	2.7 ***	-.09	2.8 ***	-.13	2.7 ***	-.12	
		2	Some	734	32	6,952	30	6,315	28	2,987	29								
		3	Quite a bit	869	38	8,929	38	8,761	39	3,944	39								
		4	Very much	425	18	4,903	21	5,078	23	2,248	23								
		Total		2,282	100	23,176	100	22,371	100	10,213	100								
c. Thinking critically and analytically	pgthink	1	Very little	52	2	499	2	527	2	212	2	3.2	3.3	-.03	3.3	-.02	3.3 **	-.07	
		2	Some	319	14	3,135	13	3,040	14	1,322	13								
		3	Quite a bit	937	41	9,540	40	9,130	40	4,084	39								
		4	Very much	976	43	10,007	44	9,670	44	4,610	46								
		Total		2,284	100	23,181	100	22,367	100	10,228	100								
d. Analyzing numerical and statistical information	pganalyze	1	Very little	161	7	3,115	13	3,303	14	1,343	12	3.0	2.7 ***	.26	2.7 ***	.30	2.8 ***	.24	
		2	Some	520	22	6,461	27	6,385	28	2,869	27								
		3	Quite a bit	809	36	7,559	33	7,153	32	3,284	32								
		4	Very much	790	36	6,017	27	5,494	26	2,704	28								
		Total		2,280	100	23,152	100	22,335	100	10,200	100								

*p<.05, **p<.01, ***p<.001 (2-tailed); Refer to p. 2 for key to triangle symbols. See the endnotes on the last page of this report.

NSSE 2017 Frequencies and Statistical Comparisons

University of Waterloo

4th-Year Students

Frequency Distributions^a

Statistical Comparisons^b

Your 4th-year students compared with

Item wording or description	Variable name ^c	Values ^d	Response options	Frequency Distributions ^a								Statistical Comparisons ^b						
				UWaterloo		U15		ON Institutions		U6		UWaterloo		U15		ON Institutions		U6
				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	218	9	3,825	17	3,915	18	1,996	19	2.9	2.5 ***	.33	2.5 ***	.38	2.4 ***	.44
		2	Some	589	26	7,460	32	7,469	33	3,602	35							
		3	Quite a bit	766	33	7,232	31	6,817	30	2,856	28							
		4	Very much	712	32	4,651	20	4,155	19	1,757	18							
		Total		2,285	100	23,168	100	22,356	100	10,211	100							
f. Working effectively with others	pgothers	1	Very little	139	6	1,720	8	1,674	8	862	8	2.9	2.8 **	.07	2.8 *	.05	2.8 ***	.08
		2	Some	596	26	6,666	29	6,305	28	3,074	29							
		3	Quite a bit	984	43	9,363	40	8,960	40	3,944	39							
		4	Very much	567	25	5,407	24	5,415	25	2,327	24							
		Total		2,286	100	23,156	100	22,354	100	10,207	100							
g. Developing or clarifying a personal code of values and ethics	pgvalues	1	Very little	348	16	3,319	15	3,098	14	1,551	15	2.5	2.6 ***	-.07	2.6 ***	-.11	2.6 **	-.07
		2	Some	753	33	7,286	32	6,794	30	3,221	31							
		3	Quite a bit	827	36	8,233	35	7,966	35	3,546	35							
		4	Very much	354	15	4,320	19	4,493	20	1,890	19							
		Total		2,282	100	23,158	100	22,351	100	10,208	100							
h. Understanding people of other backgrounds (economic, racial/ethnic, political, religious, nationality, etc.)	pgdiverse	1	Very little	365	17	3,301	15	2,837	13	1,426	14	2.5	2.6 ***	-.09	2.7 ***	-.17	2.6 ***	-.13
		2	Some	741	33	7,267	31	6,619	30	3,076	30							
		3	Quite a bit	771	34	7,774	33	7,678	34	3,449	34							
		4	Very much	397	17	4,809	21	5,195	23	2,249	22							
		Total		2,274	100	23,151	100	22,329	100	10,200	100							
i. Solving complex real-world problems	pgprobsolve	1	Very little	229	10	2,886	12	2,992	13	1,385	13	2.7	2.6 ***	.10	2.6 ***	.11	2.6 ***	.12
		2	Some	709	31	7,769	33	7,489	33	3,528	34							
		3	Quite a bit	856	38	8,015	34	7,475	33	3,340	33							
		4	Very much	486	22	4,485	20	4,389	20	1,953	20							
		Total		2,280	100	23,155	100	22,345	100	10,206	100							
j. Being an informed and active citizen	pgcitizen	1	Very little	435	20	3,610	16	3,464	16	1,651	16	2.4	2.5 ***	-.15	2.5 ***	-.18	2.5 ***	-.15
		2	Some	831	37	7,872	34	7,328	33	3,427	34							
		3	Quite a bit	703	31	7,482	32	7,257	32	3,252	32							
		4	Very much	300	13	4,131	18	4,236	19	1,850	18							
		Total		2,269	100	23,095	100	22,285	100	10,180	100							

*p<.05, **p<.01, ***p<.001 (2-tailed); Refer to p. 2 for key to triangle symbols. See the endnotes on the last page of this report.

NSSE 2017 Frequencies and Statistical Comparisons

University of Waterloo

4th-Year Students

Frequency Distributions^a

Statistical Comparisons^b

Your 4th-year students compared with

Item wording or description	Variable name ^c	Values ^d	Response options	Frequency Distributions ^a								Statistical Comparisons ^b							
				UWaterloo		U15		ON Institutions		U6		UWaterloo	U15	ON Institutions		U6			
				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	75	3	891	4	981	5	444	4	3.1	3.0 ***	.10	3.0 ***	.12	3.0 ***	.11	
		2	Fair	313	14	4,065	17	4,204	18	1,912	18								
		3	Good	1,194	52	12,237	52	11,298	50	5,179	49								
		4	Excellent	698	31	5,946	27	5,845	27	2,665	28								
			Total	2,280	100	23,139	100	22,328	100	10,200	100								
19. If you could start over again, would you go to the same institution you are now attending?																			
	sameinst	1	Definitely no	100	4	1,204	5	1,393	6	639	6	3.2	3.1 ***	.10	3.0 ***	.15	3.0 ***	.14	
		2	Probably no	282	12	3,811	16	3,999	17	1,853	17								
		3	Probably yes	1,056	46	10,426	44	9,798	43	4,454	43								
		4	Definitely yes	846	37	7,710	34	7,158	33	3,259	34								
			Total	2,284	100	23,151	100	22,348	100	10,205	100								

*p<.05, **p<.01, ***p<.001 (2-tailed); Refer to p. 2 for key to triangle symbols. See the endnotes on the last page of this report.

NSSE 2017 Frequencies and Statistical Comparisons

Detailed Statistics^g University of Waterloo

1st-Year Students

Variable Name	N					Mean				Standard error ^h				Standard deviation ⁱ				Degrees of freedom ^j			Significance ^k			Effect size ^e		
	UWaterloo	UWaterloo	U15	ON Institutions		U6	UWaterloo	U15	ON Institutions		U6	UWaterloo	U15	ON Institutions		U6	U15	ON Institutions		U6	U15	ON Institutions		U6		
				U15	ON Institutions				U15	ON Institutions				U15	ON Institutions			U15	ON Institutions			U15	ON Institutions			
1 a. askquest	3,755	2.32	2.29	2.38	2.34	.014	.004	.004	.006	.83	.84	.85	.84	54,668	4,327	5,104	.091	.000	.102	.03	-.07	-.03				
b. drafts	3,723	2.20	2.21	2.22	2.23	.015	.004	.004	.006	.93	.97	.96	.96	4,350	4,300	5,119	.755	.355	.067	-.01	-.02	-.03				
c. unpreparedr	3,730	2.64	2.71	2.70	2.64	.014	.004	.004	.006	.84	.84	.85	.85	4,298	56,609	26,500	.000	.000	.995	-.08	-.07	.00				
d. attendart	3,723	1.61	1.66	1.61	1.67	.013	.004	.004	.006	.78	.83	.83	.83	4,354	4,329	5,194	.000	.722	.000	-.06	-.01	-.07				
e. CLaskhelp	3,729	2.85	2.67	2.66	2.72	.014	.004	.004	.006	.85	.89	.88	.89	4,352	4,322	5,156	.000	.000	.000	.20	.21	.15				
f. CLexplain	3,729	2.85	2.73	2.75	2.79	.013	.004	.004	.005	.78	.82	.82	.82	4,351	4,329	5,153	.000	.000	.000	.15	.12	.08				
g. CLstudy	3,720	2.73	2.62	2.63	2.64	.015	.004	.004	.006	.91	.96	.96	.95	4,346	4,323	5,139	.000	.000	.000	.12	.11	.10				
h. CLproject	3,720	2.81	2.66	2.63	2.62	.014	.004	.004	.006	.87	.93	.93	.94	4,376	4,336	5,237	.000	.000	.000	.16	.20	.20				
i. present	3,720	2.06	1.77	1.85	1.74	.014	.004	.004	.005	.87	.83	.88	.82	4,240	4,276	4,864	.000	.000	.000	.35	.24	.39				
2 a. RIntegrate	3,705	2.57	2.57	2.59	2.57	.013	.004	.004	.005	.78	.82	.83	.82	4,328	4,309	5,118	.960	.217	.877	.00	-.02	.00				
b. RISocietal	3,691	2.28	2.49	2.51	2.49	.014	.004	.004	.006	.85	.87	.87	.87	4,279	4,254	5,030	.000	.000	.000	-.25	-.26	-.25				
c. RIDiverse	3,687	2.10	2.24	2.36	2.31	.015	.004	.004	.006	.91	.94	.94	.95	4,286	4,267	5,096	.000	.000	.000	-.16	-.28	-.22				
d. Rlownview	3,680	2.56	2.60	2.62	2.62	.013	.004	.004	.006	.80	.82	.82	.82	4,281	55,222	5,070	.010	.000	.000	-.04	-.08	-.07				
e. Rlperspect	3,673	2.73	2.79	2.81	2.82	.013	.004	.004	.005	.79	.81	.80	.81	52,911	54,942	25,802	.000	.000	.000	-.07	-.10	-.11				
f. Rlnewview	3,669	2.82	2.89	2.87	2.90	.012	.003	.003	.005	.76	.76	.77	.77	4,241	54,744	5,002	.000	.000	.000	-.09	-.07	-.10				
g. Rlconnect	3,654	2.95	3.04	3.02	3.05	.012	.003	.003	.005	.72	.73	.73	.73	52,524	54,549	25,644	.000	.000	.000	-.12	-.10	-.13				
3 a. SFcareer	3,659	1.88	1.73	1.76	1.75	.015	.004	.004	.006	.91	.86	.89	.88	52,515	54,528	25,621	.000	.000	.000	.17	.14	.15				
b. SFotherwork	3,647	1.63	1.45	1.50	1.52	.014	.003	.003	.005	.83	.75	.78	.79	4,105	4,123	4,794	.000	.000	.000	.24	.17	.15				
c. SFdiscuss	3,641	1.92	1.76	1.78	1.80	.014	.004	.004	.006	.86	.83	.85	.85	4,173	4,170	4,922	.000	.000	.000	.19	.17	.14				
d. SFperform	3,649	1.77	1.62	1.69	1.67	.014	.004	.004	.005	.84	.79	.82	.81	4,144	54,194	25,472	.000	.000	.000	.20	.10	.13				
4 a. memorize	3,642	2.78	3.02	2.97	2.99	.014	.004	.004	.006	.85	.82	.82	.82	4,160	4,141	4,842	.000	.000	.000	-.29	-.23	-.25				
b. HOapply	3,652	3.07	3.00	2.99	3.06	.013	.004	.004	.005	.79	.81	.81	.81	52,144	54,084	25,456	.000	.000	.217	.09	.11	.02				
c. HOanalyze	3,641	2.91	2.86	2.86	2.90	.013	.004	.004	.006	.81	.84	.83	.84	4,240	4,212	5,040	.001	.001	.723	.06	.06	.01				
d. HOevaluate	3,644	2.58	2.63	2.70	2.68	.015	.004	.004	.006	.88	.89	.86	.89	51,957	4,163	25,368	.002	.000	.000	-.05	-.14	-.12				
e. HOform	3,638	2.74	2.71	2.74	2.76	.013	.004	.004	.006	.81	.85	.84	.85	4,260	4,221	5,070	.021	.998	.342	.04	.00	-.02				
5 a. ETgoals	3,635	2.94	2.97	2.92	2.91	.012	.003	.004	.005	.74	.76	.79	.78	51,899	4,247	5,060	.092	.107	.032	-.03	.03	.04				
b. ETorganize	3,632	2.93	2.95	2.91	2.93	.012	.003	.003	.005	.74	.74	.78	.77	51,870	4,237	5,019	.171	.108	.778	-.02	.03	.00				
c. ETexample	3,633	3.00	3.00	2.94	2.97	.013	.004	.004	.005	.77	.78	.82	.80	51,831	4,255	5,048	.650	.000	.012	.01	.08	.04				
d. ETdraftfb	3,619	2.34	2.26	2.28	2.23	.015	.004	.004	.006	.89	.92	.94	.92	51,772	4,215	25,270	.000	.000	.000	.09	.06	.11				
e. ETfeedback	3,621	2.46	2.35	2.36	2.33	.014	.004	.004	.006	.85	.87	.88	.88	51,705	4,214	25,264	.000	.000	.000	.12	.11	.14				

NSSE 2017 Frequencies and Statistical Comparisons

Detailed Statistics^g

University of Waterloo

1st-Year Students

Variable Name	N		Mean			Standard error ^h				Standard deviation ⁱ				Degrees of freedom ^j			Significance ^k			Effect size ^e		
	UWaterloo	UWaterloo	U15	ON Institutions		UWaterloo	U15	ON Institutions		UWaterloo	U15	ON Institutions		Comparisons with:			Comparisons with:			Comparisons with:		
				U6	U6			U6	U6			U15	ON Institutions	U6	U15	ON Institutions	U6	U15	ON Institutions	U6	U15	ON Institutions
6 a. QRconclude	3,622	2.59	2.42	2.40	2.44	.014	.004	.004	.006	.84	.90	.90	.90	4,268	4,246	5,092	.000	.000	.000	.19	.22	.17
b. QRproblem	3,611	2.19	2.08	2.14	2.15	.015	.004	.004	.006	.90	.90	.90	.90	4,165	53,460	25,165	.000	.006	.036	.12	.05	.04
c. QRevaluate	3,616	2.29	2.16	2.18	2.22	.014	.004	.004	.006	.86	.87	.87	.87	4,194	53,536	25,207	.000	.000	.000	.16	.13	.08
7 a. wrshortnum	3,500	6.83	6.04	6.41	6.26	.104	.026	.026	.040	6.14	5.52	5.54	5.66	3,956	3,945	4,604	.000	.000	.000	.14	.08	.10
b. wrmednum	3,476	3.52	2.68	3.13	2.89	.078	.017	.019	.028	4.58	3.67	3.97	3.88	3,833	3,882	4,395	.000	.000	.000	.22	.10	.16
c. wrlongnum	3,494	2.29	1.36	1.57	1.55	.071	.015	.017	.025	4.21	3.24	3.55	3.53	3,827	3,881	4,399	.000	.000	.000	.28	.20	.20
— wrpages	3,435	81.99	59.21	67.05	64.21	1.713	.372	.397	.599	100.39	77.80	84.43	83.87	3,765	3,812	4,314	.000	.000	.000	.29	.17	.21
8 a. DDrace	3,519	3.19	3.10	3.12	3.17	.015	.004	.004	.006	.88	.91	.90	.89	4,142	49,501	23,417	.000	.000	.103	.10	.08	.03
b. DDeconomic	3,502	3.01	2.92	2.96	2.98	.015	.004	.004	.006	.88	.91	.89	.89	4,108	4,072	4,861	.000	.002	.046	.10	.05	.04
c. DDreligion	3,502	3.08	2.95	3.02	3.05	.015	.004	.004	.006	.90	.94	.92	.91	4,121	49,371	23,380	.000	.000	.084	.14	.07	.03
d. DDpolitical	3,495	2.77	2.77	2.79	2.78	.016	.004	.004	.007	.93	.92	.93	.92	47,960	49,369	23,355	.965	.166	.367	.00	-.02	-.02
9 a. LSreading	3,496	2.88	2.97	2.95	2.97	.013	.004	.004	.005	.78	.77	.76	.76	4,054	4,022	4,754	.000	.000	.000	-.12	-.09	-.11
b. LSnotes	3,499	2.59	2.66	2.59	2.61	.014	.004	.004	.006	.86	.91	.89	.90	4,144	4,097	4,963	.000	.759	.408	-.07	.01	-.01
c. LSsummary	3,485	2.66	2.74	2.66	2.69	.015	.004	.004	.006	.86	.90	.88	.89	4,104	4,060	4,881	.000	.936	.098	-.08	.00	-.03
10. challenge	3,483	5.28	5.36	5.26	5.34	.022	.006	.006	.009	1.32	1.27	1.30	1.28	47,597	48,889	23,146	.000	.484	.007	-.07	.01	-.05
11 a. intern ^l	3,489	.220	.069	.055	.045	.0070	.0012	.0011	.0015	--	--	--	--	--	--	--	.000	.000	.000	.45	.50	.55
b. leader ^l	3,477	.133	.093	.082	.092	.0058	.0014	.0013	.0021	--	--	--	--	--	--	--	.000	.000	.000	.13	.17	.13
c. learncom ^l	3,460	.142	.099	.079	.089	.0059	.0014	.0013	.0020	--	--	--	--	--	--	--	.000	.000	.000	.13	.20	.17
d. abroad ^l	3,467	.027	.023	.024	.024	.0027	.0007	.0007	.0011	--	--	--	--	--	--	--	.156	.334	.357	.02	.02	.02
e. research ^l	3,469	.040	.031	.025	.026	.0033	.0008	.0007	.0011	--	--	--	--	--	--	--	.005	.000	.000	.05	.08	.07
f. capstone ^l	3,462	.026	.018	.017	.014	.0027	.0006	.0006	.0008	--	--	--	--	--	--	--	.001	.000	.000	.05	.06	.09
12. servcourse	3,426	1.55	1.47	1.55	1.51	.012	.003	.003	.005	.72	.65	.69	.65	3,875	3,926	4,483	.000	.830	.001	.13	.00	.06
13 a. QIstudent	3,442	5.33	5.36	5.30	5.30	.024	.007	.007	.010	1.41	1.40	1.43	1.41	46,761	48,089	22,769	.229	.298	.263	-.02	.02	.02
b. QIadvisor	2,924	4.59	4.64	4.62	4.58	.031	.009	.009	.013	1.68	1.71	1.72	1.70	36,794	40,453	18,782	.103	.327	.854	-.03	-.02	.00
c. QIfaculty	3,296	4.86	4.85	4.77	4.76	.026	.008	.008	.012	1.48	1.53	1.59	1.57	3,877	3,903	4,727	.632	.000	.000	.01	.06	.07
d. QIstaff	3,033	4.77	4.73	4.67	4.68	.029	.009	.009	.013	1.61	1.68	1.74	1.70	3,662	3,642	4,416	.191	.001	.010	.02	.06	.05
e. QIadmin	2,910	4.56	4.73	4.65	4.70	.030	.009	.009	.013	1.64	1.67	1.71	1.67	37,828	3,405	19,558	.000	.004	.000	-.10	-.05	-.09
14 a. empstudy	3,417	3.29	3.20	3.11	3.20	.013	.004	.004	.005	.74	.74	.76	.75	3,991	4,002	4,797	.000	.000	.000	.12	.24	.12
b. SEacademic	3,398	2.85	2.83	2.85	2.85	.013	.004	.004	.006	.79	.81	.82	.82	3,994	4,006	4,827	.049	.579	.544	.03	.01	.01
c. SElearnsup	3,399	2.77	2.74	2.80	2.81	.015	.004	.004	.006	.86	.89	.90	.88	4,005	4,004	22,141	.028	.127	.019	.04	-.03	-.04

NSSE 2017 Frequencies and Statistical Comparisons

Detailed Statistics^g University of Waterloo

1st-Year Students

Variable Name	N		Mean			Standard error ^h				Standard deviation ⁱ				Degrees of freedom ⁱ			Significance ^k			Effect size ^e		
	UWaterloo	UWaterloo	U15	ON Institutions		UWaterloo	U15	ON Institutions		UWaterloo	U15	ON Institutions		Comparisons with:			Comparisons with:			Comparisons with:		
				U6	U6			U6	U6			U15	ON Institutions	U6	U15	ON Institutions	U6	U15	ON Institutions	U6	U15	ON Institutions
d. SEdiverse	3,391	2.51	2.47	2.52	2.49	.016	.005	.005	.007	.95	.96	.96	.96	45,545	46,706	22,106	.014	.418	.295	.04	-.01	.02
e. SESocial	3,389	2.56	2.70	2.70	2.69	.015	.004	.004	.007	.88	.89	.90	.89	3,954	46,656	22,071	.000	.000	.000	-.16	-.16	-.15
f. SEwellness	3,388	2.59	2.71	2.71	2.73	.015	.004	.004	.007	.89	.90	.91	.91	45,450	46,609	22,063	.000	.000	.000	-.13	-.13	-.16
g. SEnonacad	3,389	2.15	2.07	2.11	2.09	.015	.004	.004	.007	.89	.90	.93	.91	45,371	3,982	22,032	.000	.021	.002	.08	.04	.06
h. SEactivities	3,382	2.28	2.52	2.47	2.47	.015	.004	.004	.007	.89	.90	.92	.90	3,955	3,963	4,722	.000	.000	.000	-.27	-.21	-.21
i. SEevents	3,377	2.20	2.32	2.31	2.30	.015	.004	.004	.007	.88	.89	.90	.89	3,958	3,960	4,728	.000	.000	.000	-.13	-.12	-.12
15 a. tmprephrs	3,384	18.77	17.28	16.23	17.51	.160	.045	.043	.067	9.29	9.16	8.99	9.13	45,224	3,898	4,654	.000	.000	.000	.16	.28	.14
b. tmcocurrhrs	3,378	5.37	4.17	4.46	4.69	.111	.029	.030	.045	6.43	5.93	6.18	6.12	3,857	3,884	4,561	.000	.000	.000	.20	.15	.11
c. tmworkonhrs	3,378	1.88	1.09	1.38	1.27	.099	.020	.023	.033	5.75	4.18	4.74	4.55	3,670	3,745	4,181	.000	.000	.000	.18	.10	.13
d. tmworkoffhrs	3,385	2.75	4.79	5.01	3.68	.117	.038	.040	.052	6.79	7.83	8.27	7.14	4,148	4,216	4,848	.000	.000	.000	-.26	-.28	-.13
— tmworkhrs	3,368	4.57	5.86	6.35	4.92	.192	.047	.051	.071	11.12	9.67	10.59	9.72	3,790	3,862	21,873	.000	.000	.061	-.13	-.17	-.04
e. tmservicehrs	3,380	2.37	2.11	2.35	2.22	.093	.022	.024	.035	5.42	4.40	4.94	4.71	3,748	3,835	4,358	.008	.896	.135	.06	.00	.03
f. tmrelaxhrs	3,383	13.18	12.79	13.32	13.23	.142	.041	.042	.063	8.25	8.46	8.78	8.61	45,150	4,009	4,824	.009	.372	.772	.05	-.02	-.01
g. tmcarehrs	3,377	2.18	2.46	3.00	2.55	.096	.029	.031	.043	5.58	5.96	6.39	5.85	4,027	4,107	4,829	.006	.000	.000	-.05	-.13	-.06
h. tmcommutehrs	3,383	4.92	6.42	6.46	6.10	.102	.030	.033	.047	5.96	6.23	6.82	6.44	4,004	4,112	4,930	.000	.000	.000	-.24	-.23	-.19
16. reading	3,365	2.36	2.76	2.78	2.79	.020	.006	.006	.009	1.14	1.19	1.19	1.20	3,977	3,961	4,813	.000	.000	.000	-.33	-.36	-.36
— tmreadinghrs	3,351	6.69	7.78	7.49	8.06	.103	.032	.031	.049	5.98	6.57	6.46	6.68	4,029	3,987	4,994	.000	.000	.000	-.17	-.13	-.21
17 a. pgwrite	3,372	2.51	2.52	2.58	2.55	.015	.004	.004	.007	.88	.89	.87	.89	44,957	46,183	21,873	.351	.000	.018	-.02	-.08	-.04
b. pgspeak	3,372	2.39	2.27	2.36	2.28	.016	.005	.005	.007	.94	.94	.94	.94	45,031	46,196	21,861	.000	.045	.000	.13	.04	.12
c. pgthink	3,377	3.07	3.00	3.02	3.04	.014	.004	.004	.006	.80	.82	.81	.82	45,047	46,184	21,871	.000	.000	.073	.09	.06	.03
d. pganalyze	3,372	2.87	2.56	2.51	2.58	.016	.005	.005	.007	.93	.99	1.01	.99	4,019	4,021	4,891	.000	.000	.000	.32	.36	.29
e. pgwork	3,367	2.70	2.33	2.33	2.26	.016	.005	.005	.007	.94	.96	.95	.95	3,965	46,195	21,870	.000	.000	.000	.38	.39	.47
f. pgothers	3,375	2.74	2.56	2.62	2.57	.015	.005	.004	.007	.89	.92	.92	.93	3,986	3,967	4,832	.000	.000	.000	.19	.13	.19
g. pgvalues	3,364	2.50	2.42	2.49	2.44	.016	.005	.005	.007	.93	.94	.93	.94	44,997	46,130	21,851	.000	.691	.001	.09	.01	.06
h. pgdiverse	3,362	2.53	2.50	2.59	2.54	.016	.005	.005	.007	.96	.97	.96	.97	44,969	46,115	21,827	.107	.000	.518	.03	-.07	-.01
i. pgprobsolve	3,363	2.64	2.48	2.51	2.51	.016	.005	.005	.007	.91	.94	.94	.95	3,969	3,945	4,790	.000	.000	.000	.17	.15	.14
j. pgcitizen	3,354	2.41	2.43	2.48	2.44	.016	.005	.005	.007	.93	.95	.95	.96	44,891	3,918	4,721	.183	.000	.061	-.02	-.08	-.03
18. evalexp	3,367	3.06	3.04	3.01	3.03	.013	.004	.004	.006	.77	.74	.76	.77	3,897	3,909	21,832	.206	.000	.035	.02	.07	.04
19. sameinst	3,372	3.24	3.24	3.17	3.19	.013	.004	.004	.006	.77	.75	.78	.77	44,970	46,115	21,835	.959	.000	.001	.00	.09	.06

NSSE 2017 Frequencies and Statistical Comparisons

Detailed Statistics^g University of Waterloo

4th-Year Students

Variable Name	N		Mean			Standard error ^h				Standard deviation ⁱ				Degrees of freedom ^j			Significance ^k			Effect size ^e		
	UWaterloo	UWaterloo	U15	ON Institutions		UWaterloo	U15	ON Institutions		UWaterloo	U15	ON Institutions		Comparisons with:			Comparisons with:			Comparisons with:		
				U6	U6			U6	U6			U15	ON Institutions	U6	U15	ON Institutions	U6	U15	ON Institutions	U6	U15	ON Institutions
1 a. askquest	2,511	2.47	2.64	2.74	2.71	.018	.005	.005	.007	.89	.91	.91	.91	2,871	2,895	3,323	.000	.000	.000	-.18	-.30	-.26
b. drafts	2,494	2.07	2.24	2.28	2.27	.019	.005	.005	.008	.95	1.02	1.02	1.02	2,896	2,916	3,388	.000	.000	.000	-.16	-.20	-.20
c. unpreparedr	2,500	2.50	2.62	2.63	2.58	.018	.004	.005	.007	.89	.87	.86	.86	2,828	2,844	3,224	.000	.000	.000	-.14	-.15	-.09
d. attendart	2,496	1.65	1.75	1.70	1.76	.016	.004	.005	.007	.78	.85	.86	.86	2,905	2,944	3,455	.000	.002	.000	-.12	-.06	-.14
e. CLaskhelp	2,498	2.56	2.49	2.47	2.49	.017	.005	.005	.007	.87	.88	.89	.90	39,650	37,681	19,583	.000	.000	.000	.08	.10	.09
f. CLexplain	2,492	2.72	2.72	2.76	2.74	.016	.004	.004	.006	.80	.82	.83	.84	2,854	37,605	3,333	.912	.011	.165	.00	-.05	-.03
g. CLstudy	2,495	2.55	2.53	2.54	2.54	.019	.005	.005	.007	.93	.97	.97	.97	2,870	2,894	3,346	.300	.676	.470	.02	.01	.01
h. CLproject	2,487	2.89	2.90	2.89	2.87	.018	.005	.005	.007	.88	.92	.92	.93	2,864	2,883	3,345	.490	.886	.225	-.01	.00	.03
i. present	2,494	2.54	2.61	2.72	2.65	.019	.005	.005	.007	.92	.92	.92	.90	39,483	37,486	3,228	.000	.000	.000	-.07	-.19	-.13
2 a. RIntegrate	2,484	2.72	2.87	2.92	2.88	.016	.004	.004	.006	.80	.81	.80	.80	2,829	2,848	3,249	.000	.000	.000	-.18	-.24	-.20
b. RIsocietal	2,488	2.42	2.69	2.72	2.71	.018	.005	.005	.007	.89	.88	.89	.89	39,265	37,270	19,382	.000	.000	.000	-.30	-.33	-.32
c. RIDiverse	2,474	2.11	2.38	2.48	2.44	.019	.005	.005	.008	.96	.98	.99	.98	2,828	2,857	3,281	.000	.000	.000	-.27	-.38	-.33
d. Rlownview	2,468	2.54	2.68	2.73	2.70	.017	.004	.004	.006	.83	.82	.82	.82	2,801	2,820	3,217	.000	.000	.000	-.17	-.23	-.20
e. Rlperspect	2,467	2.71	2.84	2.88	2.86	.017	.004	.004	.006	.83	.80	.80	.81	2,791	2,807	3,196	.000	.000	.000	-.16	-.21	-.18
f. Rlnewview	2,458	2.81	2.94	2.95	2.96	.015	.004	.004	.006	.74	.75	.75	.75	2,813	2,841	3,266	.000	.000	.000	-.17	-.20	-.21
g. Rlconnect	2,452	2.94	3.10	3.11	3.10	.015	.004	.004	.006	.74	.72	.72	.72	38,623	36,652	19,086	.000	.000	.000	-.21	-.23	-.22
3 a. SFcareer	2,459	1.97	2.01	2.08	2.03	.018	.005	.005	.007	.89	.91	.94	.92	38,662	2,863	19,117	.013	.000	.001	-.05	-.12	-.07
b. SFotherwork	2,452	1.71	1.71	1.74	1.73	.018	.005	.005	.007	.87	.91	.93	.92	2,822	2,868	3,307	.834	.125	.283	.00	-.03	-.02
c. SFdiscuss	2,442	1.96	1.99	2.04	2.04	.017	.005	.005	.007	.83	.86	.89	.88	38,506	2,859	3,293	.061	.000	.000	-.04	-.09	-.10
d. SFperform	2,446	1.79	1.80	1.92	1.87	.017	.004	.005	.007	.82	.83	.86	.84	38,497	36,535	19,035	.759	.000	.000	-.01	-.15	-.09
4 a. memorize	2,453	2.77	2.86	2.84	2.86	.017	.005	.005	.007	.86	.88	.89	.89	38,463	36,526	19,033	.000	.000	.000	-.11	-.08	-.11
b. HOapply	2,450	2.97	2.98	2.99	2.98	.016	.004	.004	.006	.80	.80	.81	.81	38,424	36,480	19,010	.363	.143	.393	-.02	-.03	-.02
c. HOanalyze	2,437	2.82	2.88	2.91	2.90	.017	.004	.005	.007	.83	.84	.84	.84	38,319	36,416	18,957	.000	.000	.000	-.08	-.11	-.10
d. HOevaluate	2,437	2.61	2.71	2.79	2.75	.018	.005	.005	.007	.88	.89	.88	.89	38,295	2,799	18,947	.000	.000	.000	-.11	-.20	-.16
e. HOform	2,434	2.68	2.74	2.79	2.77	.017	.004	.005	.007	.83	.85	.85	.86	38,245	36,318	18,936	.000	.000	.000	-.07	-.13	-.11
5 a. ETgoals	2,439	2.88	2.98	2.95	2.96	.015	.004	.004	.006	.75	.75	.77	.75	2,779	36,304	3,203	.000	.000	.000	-.12	-.09	-.10
b. ETorganize	2,432	2.89	2.94	2.92	2.93	.015	.004	.004	.006	.74	.73	.77	.74	2,768	36,267	3,195	.001	.040	.003	-.07	-.04	-.06
c. ETexample	2,436	2.95	2.97	2.93	2.95	.015	.004	.004	.006	.75	.77	.81	.79	38,196	2,855	3,289	.223	.211	.816	-.03	.02	.00
d. ETdraftfb	2,423	2.27	2.29	2.36	2.31	.019	.005	.005	.007	.94	.93	.94	.93	38,163	2,786	18,883	.320	.000	.040	-.02	-.10	-.04
e. ETfeedback	2,419	2.49	2.43	2.47	2.43	.016	.005	.005	.007	.81	.85	.87	.85	2,797	2,837	3,272	.000	.107	.000	.07	.03	.08

NSSE 2017 Frequencies and Statistical Comparisons

Detailed Statistics^g University of Waterloo

4th-Year Students

Variable Name	N		Mean			Standard error ^h				Standard deviation ⁱ				Degrees of freedom ^j			Significance ^k			Effect size ^e		
	UWaterloo	UWaterloo	U15	ON Institutions	U6	UWaterloo	U15	ON Institutions	U6	UWaterloo	U15	ON Institutions	U6	Comparisons with:			Comparisons with:			Comparisons with:		
														U15	ON Institutions	U6	U15	ON Institutions	U6	U15	ON Institutions	U6
6 a. QRconclude	2,414	2.68	2.50	2.50	2.53	.018	.005	.005	.007	.90	.94	.94	.94	2,779	2,803	3,242	.000	.000	.000	.19	.19	.16
b. QRproblem	2,415	2.27	2.22	2.25	2.26	.019	.005	.005	.007	.93	.94	.94	.94	37,995	36,090	18,815	.008	.302	.464	.06	.02	.02
c. QRevaluate	2,425	2.40	2.33	2.35	2.38	.017	.005	.005	.007	.86	.91	.91	.91	2,804	2,826	3,279	.000	.002	.178	.08	.06	.03
7 a. wrshortnum	2,347	7.51	7.21	7.73	7.58	.132	.034	.035	.050	6.38	6.20	6.28	6.20	35,692	33,903	3,059	.023	.101	.639	.05	-.04	-.01
b. wrmednum	2,328	4.40	4.23	4.78	4.56	.099	.024	.027	.037	4.77	4.46	4.70	4.55	2,620	33,752	17,672	.094	.000	.108	.04	-.08	-.04
c. wrlongnum	2,343	3.11	2.75	3.02	2.90	.091	.022	.024	.033	4.42	4.03	4.30	4.12	2,623	33,829	2,997	.000	.325	.031	.09	.02	.05
— wrpages	2,302	102.98	95.81	106.22	102.33	2.177	.529	.580	.798	104.46	95.85	102.19	98.30	2,580	33,398	2,953	.001	.142	.781	.07	-.03	.01
8 a. DDrace	2,352	3.15	3.16	3.19	3.23	.019	.005	.005	.007	.90	.88	.88	.86	35,823	33,933	17,761	.664	.043	.000	-.01	-.04	-.09
b. DDeconomic	2,337	2.96	2.97	3.03	3.04	.018	.005	.005	.007	.89	.88	.87	.88	35,748	33,852	17,720	.680	.000	.000	-.01	-.08	-.08
c. DDreligion	2,340	3.02	2.99	3.07	3.08	.019	.005	.005	.007	.91	.91	.89	.89	35,729	33,865	17,711	.061	.020	.002	.04	-.05	-.07
d. DDpolitical	2,333	2.73	2.79	2.83	2.82	.019	.005	.005	.007	.92	.90	.91	.91	2,656	2,684	17,706	.005	.000	.000	-.06	-.10	-.09
9 a. LSreading	2,339	2.90	3.03	3.05	3.06	.017	.004	.004	.006	.80	.80	.79	.79	2,676	2,686	17,681	.000	.000	.000	-.16	-.19	-.20
b. LSnotes	2,341	2.39	2.51	2.47	2.47	.018	.005	.005	.008	.89	.95	.94	.94	2,727	2,743	3,199	.000	.000	.000	-.13	-.09	-.08
c. LSsummary	2,338	2.57	2.66	2.62	2.64	.019	.005	.005	.007	.91	.92	.91	.93	35,581	33,669	17,628	.000	.004	.001	-.10	-.06	-.08
10. challenge	2,337	5.04	5.24	5.23	5.24	.027	.007	.007	.010	1.29	1.26	1.28	1.24	35,512	2,689	17,622	.000	.000	.000	-.16	-.15	-.16
11 a. intern ^l	2,341	.645	.488	.445	.456	.0099	.0027	.0028	.0040	--	--	--	--	--	--	--	.000	.000	.000	.32	.41	.38
b. leader ^l	2,331	.368	.354	.337	.381	.0100	.0026	.0027	.0039	--	--	--	--	--	--	--	.180	.002	.206	.03	.06	-.03
c. learncom ^l	2,329	.202	.183	.176	.179	.0083	.0021	.0022	.0031	--	--	--	--	--	--	--	.023	.001	.006	.05	.07	.06
d. abroad ^l	2,330	.121	.116	.095	.116	.0067	.0018	.0017	.0026	--	--	--	--	--	--	--	.538	.000	.503	.01	.08	.01
e. research ^l	2,328	.256	.253	.228	.261	.0090	.0024	.0024	.0036	--	--	--	--	--	--	--	.754	.002	.593	.01	.07	-.01
f. capstone ^l	2,327	.419	.322	.334	.333	.0102	.0026	.0027	.0038	--	--	--	--	--	--	--	.000	.000	.000	.20	.18	.18
12. servcourse	2,316	1.48	1.52	1.57	1.52	.014	.004	.004	.005	.66	.64	.67	.63	35,299	33,350	2,983	.005	.000	.008	-.06	-.14	-.06
13 a. QIstudent	2,311	5.33	5.45	5.43	5.38	.028	.007	.008	.011	1.33	1.34	1.37	1.37	35,170	2,688	3,110	.000	.001	.105	-.09	-.07	-.04
b. QIadvisor	2,122	4.53	4.50	4.56	4.42	.037	.010	.011	.015	1.71	1.76	1.78	1.76	2,468	2,486	2,876	.455	.464	.005	.02	-.02	.06
c. QIfaculty	2,254	4.91	5.00	4.98	4.94	.030	.008	.009	.012	1.44	1.45	1.50	1.49	34,719	2,627	17,203	.003	.036	.319	-.06	-.04	-.02
d. QIstaff	1,944	4.41	4.50	4.47	4.42	.037	.011	.011	.015	1.64	1.70	1.74	1.71	2,270	2,299	2,662	.015	.093	.840	-.06	-.04	.00
e. QIadmin	2,121	4.46	4.55	4.50	4.50	.034	.010	.010	.014	1.57	1.68	1.71	1.69	2,488	2,504	2,904	.021	.285	.386	-.05	-.02	-.02
14 a. empstudy	2,299	3.33	3.21	3.13	3.23	.016	.004	.004	.006	.75	.74	.77	.74	2,634	2,678	3,050	.000	.000	.000	.17	.26	.13
b. SEacademic	2,296	2.52	2.57	2.62	2.59	.017	.004	.005	.007	.79	.80	.83	.82	34,463	2,688	17,080	.002	.000	.000	-.07	-.13	-.08
c. SElearnsup	2,286	2.33	2.42	2.51	2.48	.018	.005	.005	.007	.85	.87	.90	.88	2,640	2,690	3,098	.000	.000	.000	-.11	-.20	-.16

NSSE 2017 Frequencies and Statistical Comparisons

Detailed Statistics^g

University of Waterloo

4th-Year Students

Variable Name	N					Mean				Standard error ^h				Standard deviation ⁱ				Degrees of freedom ^j			Significance ^k			Effect size ^e		
	UWaterloo	UWaterloo	U15	ON Institutions		U6	UWaterloo	U15	ON Institutions		U6	UWaterloo	U15	ON Institutions		U6	U15	ON Institutions		U6	U15	ON Institutions		U6		
				U15	ON Institutions				U15	ON Institutions				U15	ON Institutions			U15	ON Institutions			U15	ON Institutions		U15	ON Institutions
d. SEdiverse	2,287	2.21	2.26	2.33	2.26	.020	.005	.006	.008	.94	.95	.97	.97	34,425	2,669	3,084	.017	.000	.020	-.05	-.12	-.05				
e. SESocial	2,282	2.37	2.57	2.58	2.57	.018	.005	.005	.007	.87	.88	.90	.90	34,438	2,663	3,075	.000	.000	.000	-.24	-.24	-.22				
f. SEwellness	2,288	2.34	2.52	2.52	2.51	.019	.005	.005	.008	.90	.91	.92	.92	34,373	2,666	3,078	.000	.000	.000	-.19	-.19	-.19				
g. SEnonacad	2,284	1.83	1.85	1.87	1.84	.018	.005	.005	.007	.86	.85	.88	.86	34,361	32,409	17,037	.290	.024	.538	-.02	-.05	-.01				
h. SEactivities	2,284	2.05	2.33	2.30	2.30	.018	.005	.005	.007	.85	.87	.90	.88	2,636	2,682	3,077	.000	.000	.000	-.31	-.27	-.28				
i. SEevents	2,280	2.06	2.18	2.19	2.16	.018	.005	.005	.007	.84	.85	.87	.85	2,628	2,669	3,061	.000	.000	.000	-.14	-.14	-.12				
15 a. tmprephrs	2,284	17.32	16.97	16.50	17.21	.199	.053	.054	.078	9.49	9.53	9.45	9.44	34,321	32,376	17,037	.092	.000	.604	.04	.09	.01				
b. tmcocurrhrs	2,274	5.66	5.06	5.11	5.65	.144	.038	.040	.058	6.85	6.73	6.91	7.05	34,219	32,287	16,974	.000	.000	.972	.09	.08	.00				
c. tmworkonhrs	2,278	2.87	2.46	2.74	2.87	.135	.033	.036	.052	6.44	5.92	6.15	6.30	2,559	32,317	17,005	.003	.307	.980	.07	.02	.00				
d. tmworkoffhrs	2,278	3.99	7.57	8.48	7.07	.168	.055	.061	.081	8.01	9.92	10.60	9.86	2,800	2,919	3,443	.000	.000	.000	-.36	-.43	-.32				
— tmworkhrs	2,269	6.77	9.99	11.18	9.90	.242	.063	.069	.095	11.54	11.32	11.94	11.57	2,588	2,649	3,015	.000	.000	.000	-.28	-.37	-.27				
e. tmservicehrs	2,275	2.90	3.06	3.36	3.23	.118	.029	.032	.044	5.65	5.18	5.63	5.37	2,553	32,303	17,003	.198	.000	.006	-.03	-.08	-.06				
f. tmrelaxhrs	2,275	14.33	12.42	12.50	12.65	.186	.046	.049	.069	8.85	8.22	8.47	8.36	2,561	2,600	2,935	.000	.000	.000	.23	.22	.20				
g. tmcarehrs	2,277	2.30	2.60	3.23	2.53	.125	.037	.042	.051	5.95	6.53	7.26	6.18	2,683	2,818	16,964	.021	.000	.088	-.05	-.13	-.04				
h. tmcommutehrs	2,283	5.51	6.89	7.07	6.93	.114	.033	.037	.051	5.46	5.90	6.40	6.15	2,676	2,780	3,246	.000	.000	.000	-.23	-.25	-.23				
16. reading	2,270	2.42	2.73	2.80	2.79	.025	.007	.007	.010	1.21	1.25	1.26	1.27	2,628	2,657	3,095	.000	.000	.000	-.25	-.30	-.30				
— tmreadinghrs	2,265	6.56	7.50	7.60	7.84	.130	.037	.039	.056	6.20	6.65	6.73	6.79	2,648	2,685	3,165	.000	.000	.000	-.14	-.15	-.19				
17 a. pgwrite	2,275	2.78	2.90	2.93	2.96	.018	.005	.005	.007	.88	.88	.87	.86	2,608	2,623	2,998	.000	.000	.000	-.13	-.18	-.20				
b. pgspeak	2,271	2.63	2.71	2.75	2.74	.019	.005	.005	.008	.91	.92	.92	.92	34,184	32,256	16,957	.000	.000	.000	-.09	-.13	-.12				
c. pgthink	2,273	3.24	3.26	3.25	3.29	.016	.004	.005	.006	.78	.77	.78	.77	34,199	32,259	16,982	.216	.438	.002	-.03	-.02	-.07				
d. pganalyze	2,269	3.01	2.75	2.71	2.77	.019	.006	.006	.008	.92	1.00	1.00	1.00	2,665	2,698	3,157	.000	.000	.000	.26	.30	.24				
e. pgwork	2,274	2.87	2.55	2.50	2.44	.020	.006	.006	.008	.97	.99	.99	.99	2,626	2,648	3,065	.000	.000	.000	.33	.38	.44				
f. pgothers	2,275	2.86	2.80	2.82	2.78	.018	.005	.005	.007	.86	.89	.89	.90	2,630	2,659	3,105	.002	.033	.000	.07	.05	.08				
g. pgvalues	2,271	2.51	2.58	2.61	2.57	.020	.005	.006	.008	.93	.96	.96	.96	34,166	2,649	3,068	.001	.000	.002	-.07	-.11	-.07				
h. pgdiverse	2,263	2.51	2.60	2.67	2.63	.020	.005	.006	.008	.96	.97	.97	.98	34,141	32,185	16,931	.000	.000	.000	-.09	-.17	-.13				
i. pgprobsolve	2,269	2.71	2.62	2.61	2.60	.019	.005	.006	.008	.91	.94	.95	.95	2,620	2,655	3,079	.000	.000	.000	.10	.11	.12				
j. pgcitizen	2,258	2.37	2.52	2.54	2.52	.020	.005	.006	.008	.94	.96	.97	.97	2,603	2,633	3,042	.000	.000	.000	-.15	-.18	-.15				
18. evalexp	2,269	3.10	3.02	3.00	3.02	.016	.004	.005	.007	.76	.77	.80	.80	34,136	32,194	16,937	.000	.000	.000	.10	.12	.11				
19. sameinst	2,274	3.16	3.08	3.03	3.04	.017	.005	.005	.007	.80	.84	.87	.87	34,155	32,231	16,954	.000	.000	.000	.10	.15	.14				

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 Ns 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."