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**NSSE 2020**  
**Frequencies and Statistical Comparisons**  
University of Waterloo

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# NSSE 2020 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](https://nsse.indiana.edu)) or contact a member of the NSSE team.

- Class level:** As reported by your institution.
- Item numbers:** Numbering corresponds to the survey available on the NSSE website.
- 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.
- Values and response options:** Values are used to calculate means. Response options are worded as they appear on the instrument.
- 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: [go.iu.edu/NSSE-weights](https://go.iu.edu/NSSE-weights)

- 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 Frequencies and Statistical Comparisons

#### NSSEville State University

Seniors ← 1

Item wording or description	Variable name <sup>c</sup>	Values <sup>d</sup>	Response options	Frequency Distributions <sup>a</sup>								Statistical Comparisons <sup>b</sup>							
				NSSEville State		Admissions Overlap		Carnegie UG Program		NSSE Cohort		NSSEville State		Admissions Overlap		Carnegie UG Program		NSSE Cohort	
				Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size <sup>e</sup>	Mean	Effect size <sup>e</sup>	Mean	Effect size <sup>e</sup>	
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	3	0	244	2	54	2	6,952	3	3.3	3.0 ***	.27	3.0 ***	.35	2.9 ***	.43	
		2	Sometimes	197	20	4,397	27	845	29	75,222	33								
		3	Often	112	33	5,947	37	1,086	38	81,724	35								
		4	Very often	280	46	5,440	34	889	31	66,983	29								
			Total	630	100	16,028	100	2,874	100	230,881	100								
b. Used numerical information to examine a real-world problem or issue (unemployment, climate change, public health, etc.)	QRproblem	1	Never	82	13	2,369	14	401	14	35,490	16	2.5	2.5	-.04	2.6 *	-.09	2.6	-.05	
		2	Sometimes	267	42	5,959	37	978	34	79,495	34								
		3	Often	164	26	4,548	29	88	3	67,348	29								
		4	Very often	113	19	2,722	20	52	2	47,208	21								
			Total	626	100	15,118	100	2,858	100	229,541	100								
c. Evaluated what others have concluded from numerical information	QRevaluate	1	Never	25	4	778	5	134	5	12,543	6	3.1	3.1	.02	3.1	-.04	3.0	.06	
		2	Sometimes	56	9	1,666	11	262	10	28,134	13								
		3	Often	384	63	9,147	57	1,586	57	128,802	56								
		4	Very often	150	24	4,267	27	851	29	58,873	26								
			Total	615	100	15,858	100	2,833	100	228,352	100								

- 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 2020 Frequencies and Statistical Comparisons

## University of Waterloo

### First-Year Students

### Frequency Distributions<sup>a</sup>

### Statistical Comparisons<sup>b</sup>

*Your 1st-year students compared with*

Item wording or description	Variable name <sup>c</sup>	Values <sup>d</sup>	Response options	UWaterloo				U15				ON Universities				U6				UWaterloo		U15		ON Universities		U6		
				Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Mean	Effect size <sup>e</sup>	Mean	Effect size <sup>e</sup>	Mean	Effect size <sup>e</sup>	Mean	Effect size <sup>e</sup>	
<b>1. During the current school year, about how often have you done the following?</b>																												
a. Asked questions or contributed to course discussions in other ways	askquest	1	Never	500	13	5,763	16	4,525	12	2,184	13	<b>2.3</b>	2.3 ***	.06	2.4 ***	-.06	2.3	.00	△	▽	▽	▽	▽	▽	▽	▽	▽	▽
		2	Sometimes	1,912	51	17,919	51	17,779	49	7,819	51																	
		3	Often	924	25	7,897	23	9,083	26	3,681	25																	
		4	Very often	428	11	3,399	10	4,208	12	1,598	11																	
		Total		3,764	100	34,978	100	35,595	100	15,282	100																	
b. Come to class without completing readings or assignments	unpreparedr <i>(Reverse-coded version of unprepared created by NSSE.)</i>	1	Very often	404	11	2,975	9	3,010	9	1,400	9	<b>2.7</b>	2.8 ***	-.13	2.8 ***	-.15	2.7 ***	-.07	▽	▽	▽	▽	▽	▽	▽	▽	▽	▽
		2	Often	896	24	7,311	21	7,391	21	3,466	23																	
		3	Sometimes	1,924	51	18,365	52	18,529	52	7,954	52																	
		4	Never	527	14	6,250	18	6,555	18	2,418	15																	
		Total		3,751	100	34,901	100	35,485	100	15,238	100																	
c. Attended an art exhibit, play, or other arts performance (dance, music, etc.)	attendart	1	Never	2,159	58	20,685	59	21,848	62	8,885	59	<b>1.6</b>	1.6	.01	1.5	.03	1.6	-.02	△	△	△	△	△	△	△	△	△	
		2	Sometimes	1,159	31	9,869	28	9,188	26	4,296	28																	
		3	Often	302	8	2,987	8	3,065	9	1,396	9																	
		4	Very often	125	3	1,257	4	1,327	4	606	4																	
		Total		3,745	100	34,798	100	35,428	100	15,183	100																	
d. Asked another student to help you understand course material	CLaskhelp	1	Never	157	4	2,748	8	2,896	8	1,155	8	<b>2.9</b>	2.7 ***	.22	2.7 ***	.24	2.7 ***	.18	△	△	△	△	△	△	△	△	△	
		2	Sometimes	1,133	30	12,252	35	12,597	36	5,106	33																	
		3	Often	1,413	38	12,678	36	12,760	36	5,639	37																	
		4	Very often	1,044	28	7,088	20	7,154	20	3,271	22																	
		Total		3,747	100	34,766	100	35,407	100	15,171	100																	
e. Explained course material to one or more students	CLexplain	1	Never	97	3	1,838	5	1,743	5	712	5	<b>2.9</b>	2.7 ***	.18	2.8 ***	.15	2.8 ***	.13	△	△	△	△	△	△	△	△		
		2	Sometimes	1,146	30	12,531	36	12,336	34	5,231	34																	
		3	Often	1,600	43	13,884	40	14,332	40	6,170	41																	
		4	Very often	901	24	6,472	19	6,958	20	3,043	21																	
		Total		3,744	100	34,725	100	35,369	100	15,156	100																	
f. Prepared for exams by discussing or working through course material with other students	CLstudy	1	Never	320	9	4,298	13	4,418	13	1,718	11	<b>2.8</b>	2.6 ***	.13	2.7 ***	.12	2.7 ***	.09	△	△	△	△	△	△	△	△		
		2	Sometimes	1,136	30	11,100	32	10,981	31	4,742	31																	
		3	Often	1,322	35	11,573	33	11,839	33	5,142	34																	
		4	Very often	953	26	7,611	22	8,005	23	3,494	23																	
		Total		3,731	100	34,582	100	35,243	100	15,096	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 2020 Frequencies and Statistical Comparisons

## University of Waterloo

### First-Year Students

#### Frequency Distributions<sup>a</sup>

#### Statistical Comparisons<sup>b</sup>

*Your 1st-year students compared with*

Item wording or description	Variable name <sup>c</sup>	Values <sup>d</sup>	Response options	Frequency Distributions <sup>a</sup>								Statistical Comparisons <sup>b</sup>									
				UWaterloo		U15		ON Universities		U6		UWaterloo	U15		ON Universities		U6				
				Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size <sup>e</sup>	Mean	Effect size <sup>e</sup>	Mean	Effect size <sup>e</sup>			
g. Worked with other students on course projects or assignments	CLproject	1	Never	194	5	3,532	10	3,760	11	1,554	10	<b>2.8</b>	2.7 ***	.17	2.7 ***	.20	2.7 ***	.18			
		2	Sometimes	1,169	31	11,343	33	11,845	34	4,995	33								△	△	△
		3	Often	1,387	37	11,915	35	12,108	35	5,229	35										
		4	Very often	978	26	7,624	22	7,327	21	3,238	22										
		Total		3,728	100	34,414	100	35,040	100	15,016	100										
h. Given a course presentation	present	1	Never	775	21	15,668	44	14,908	41	7,376	48	<b>2.2</b>	1.8 ***	.44	1.9 ***	.33	1.7 ***	.52			
		2	Sometimes	1,884	50	12,773	38	12,743	37	5,215	36								▲	▲	▲
		3	Often	742	20	4,234	13	5,154	15	1,746	12										
		4	Very often	329	9	1,689	5	2,215	7	658	4										
		Total		3,730	100	34,364	100	35,020	100	14,995	100										
<b>2. During the current school year, about how often have you done the following?</b>																					
a. Combined ideas from different courses when completing assignments	RIintegrate	1	Never	202	5	2,831	8	2,623	8	1,155	8	<b>2.6</b>	2.6 **	.05	2.6	.01	2.6 *	.04			
		2	Sometimes	1,508	41	13,103	39	13,036	38	5,717	39								△	△	△
		3	Often	1,444	39	13,050	38	13,487	38	5,709	38										
		4	Very often	542	15	5,022	15	5,483	16	2,254	15										
		Total		3,696	100	34,006	100	34,629	100	14,835	100										
b. Connected your learning to societal problems or issues	RIsocietal	1	Never	520	14	3,991	12	3,897	12	1,750	13	<b>2.4</b>	2.5 ***	-.14	2.5 ***	-.16	2.5 ***	-.13			
		2	Sometimes	1,626	44	13,093	39	13,216	39	5,718	39								▽	▽	▽
		3	Often	1,108	30	11,659	34	11,914	34	5,004	33										
		4	Very often	438	12	5,029	15	5,379	15	2,249	15										
		Total		3,692	100	33,772	100	34,406	100	14,721	100										
c. Included diverse perspectives (political, religious, racial/ethnic, gender, etc.) in course discussions or assignments	RIdiverse	1	Never	900	25	7,583	23	6,316	19	3,058	21	<b>2.2</b>	2.3 ***	-.08	2.4 ***	-.20	2.3 ***	-.13			
		2	Sometimes	1,446	39	12,822	38	12,518	37	5,473	38								▽	▽	▽
		3	Often	928	25	9,004	27	10,204	29	4,082	28										
		4	Very often	389	10	4,053	12	5,089	15	1,981	13										
		Total		3,663	100	33,462	100	34,127	100	14,594	100										
d. Examined the strengths and weaknesses of your own views on a topic or issue	RIownview	1	Never	259	7	2,790	8	2,439	7	1,151	8	<b>2.6</b>	2.6	.00	2.7 **	-.05	2.6	-.03			
		2	Sometimes	1,347	37	11,884	36	11,836	35	5,087	35										
		3	Often	1,545	42	13,703	41	14,349	42	5,989	41										
		4	Very often	497	14	4,732	15	5,182	16	2,225	16								▽	▽	▽
		Total		3,648	100	33,109	100	33,806	100	14,452	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 2020 Frequencies and Statistical Comparisons

## University of Waterloo

### First-Year Students

#### Frequency Distributions<sup>a</sup>

#### Statistical Comparisons<sup>b</sup>

*Your 1st-year students compared with*

Item wording or description	Variable name <sup>c</sup>	Values <sup>d</sup>	Response options	Frequency Distributions <sup>a</sup>								Statistical Comparisons <sup>b</sup>							
				UWaterloo		U15		ON Universities		U6		UWaterloo	U15	ON Universities		U6			
				Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size <sup>e</sup>	Mean	Effect size <sup>e</sup>	Mean	Effect size <sup>e</sup>	
e. Tried to better understand someone else's views by imagining how an issue looks from their perspective	Rlperspect	1	Never	147	4	1,598	5	1,323	4	615	4	<b>2.8</b>	2.8	-0.2	2.8 ***	-0.07	2.8 **	-0.05	
		2	Sometimes	1,163	32	9,603	30	9,612	29	4,180	30								
		3	Often	1,605	44	14,839	45	15,274	45	6,416	45								
		4	Very often	696	19	6,551	20	7,122	21	3,014	21								
		Total		3,611	100	32,591	100	33,331	100	14,225	100								
f. Learned something that changed the way you understand an issue or concept	Rlnewview	1	Never	105	3	868	3	930	3	396	3	<b>2.8</b>	2.9 *	-0.4	2.9	-0.03	2.9 **	-0.05	
		2	Sometimes	1,071	30	9,056	28	9,452	29	3,962	28								
		3	Often	1,688	47	15,312	47	15,343	46	6,531	46								
		4	Very often	723	20	6,926	21	7,233	22	3,166	22								
		Total		3,587	100	32,162	100	32,958	100	14,055	100								
g. Connected ideas from your courses to your prior experiences and knowledge	Rlconnect	1	Never	65	2	485	2	526	2	210	2	<b>3.0</b>	3.1 ***	-0.8	3.0 ***	-0.07	3.1 ***	-0.10	
		2	Sometimes	801	23	6,325	20	6,636	21	2,766	20								
		3	Often	1,802	50	16,034	50	16,160	49	6,828	49								
		4	Very often	904	25	9,016	28	9,300	28	4,106	30								
		Total		3,572	100	31,860	100	32,622	100	13,910	100								
<b>3. During the current school year, about how often have you done the following?</b>																			
a. Talked about career plans with a faculty member	SFcareer	1	Never	1,457	41	15,787	48	15,419	46	6,723	47	<b>1.9</b>	1.8 ***	.16	1.8 ***	.10	1.8 ***	.12	
		2	Sometimes	1,282	36	10,285	33	10,603	33	4,459	33								
		3	Often	544	15	4,018	13	4,536	14	1,881	14								
		4	Very often	281	8	1,757	6	2,070	7	836	6								
		Total		3,564	100	31,847	100	32,628	100	13,899	100								
b. Worked with a faculty member on activities other than coursework (committees, student groups, etc.)	SFotherwork	1	Never	2,048	57	21,678	67	21,168	64	8,926	63	<b>1.6</b>	1.5 ***	.20	1.5 ***	.12	1.5 ***	.11	
		2	Sometimes	925	26	6,474	21	7,094	22	3,117	23								
		3	Often	425	12	2,612	9	3,128	10	1,334	10								
		4	Very often	150	4	944	3	1,118	4	463	4								
		Total		3,548	100	31,708	100	32,508	100	13,840	100								
c. Discussed course topics, ideas, or concepts with a faculty member outside of class	SFdiscuss	1	Never	1,242	35	14,658	45	14,438	44	6,049	43	<b>2.0</b>	1.8 ***	.20	1.8 ***	.15	1.8 ***	.14	
		2	Sometimes	1,455	41	11,060	36	11,405	36	4,939	36								
		3	Often	608	17	4,251	14	4,756	15	2,012	15								
		4	Very often	235	7	1,512	5	1,678	5	747	6								
		Total		3,540	100	31,481	100	32,277	100	13,747	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 2020 Frequencies and Statistical Comparisons

## University of Waterloo

### First-Year Students

#### Frequency Distributions<sup>a</sup>

#### Statistical Comparisons<sup>b</sup>

*Your 1st-year students compared with*

Item wording or description	Variable name <sup>c</sup>	Values <sup>d</sup>	Response options	Frequency Distributions <sup>a</sup>								Statistical Comparisons <sup>b</sup>											
				UWaterloo		U15		ON Universities		U6		UWaterloo	U15	ON Universities	U6	Effect size <sup>e</sup>	Effect size <sup>e</sup>	Effect size <sup>e</sup>	Effect size <sup>e</sup>				
				Count	%	Count	%	Count	%	Count	%	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Effect size <sup>e</sup>	Effect size <sup>e</sup>	Effect size <sup>e</sup>	Effect size <sup>e</sup>
d. Discussed your academic performance with a faculty member	SFperform	1	Never	1,667	47	17,274	54	15,811	48	7,057	50	<b>1.8</b>	1.6 ***	.15	1.7	.03	1.7 ***	.07	△				
		2	Sometimes	1,217	34	9,846	32	10,986	34	4,484	33												
		3	Often	498	14	3,312	11	4,130	13	1,643	12												
		4	Very often	170	5	1,089	4	1,395	5	579	4												
		Total		3,552	100	31,521	100	32,322	100	13,763	100												
<b>4. During the current school year, how much has your coursework emphasized the following?</b>																							
a. Memorizing course material	memorize	1	Very little	169	5	1,076	4	1,117	4	471	4	<b>2.9</b>	3.0 ***	-0.20	3.0 ***	-0.15	3.0 ***	-0.18	▽				
		2	Some	998	29	6,486	22	7,265	23	2,952	22												
		3	Quite a bit	1,488	42	13,351	43	13,935	44	5,843	43												
		4	Very much	889	25	10,405	32	9,825	29	4,407	31												
		Total		3,544	100	31,318	100	32,142	100	13,673	100												
b. Applying facts, theories, or methods to practical problems or new situations	HOapply	1	Very little	87	2	1,170	4	1,152	4	454	3	<b>3.1</b>	3.0 ***	.10	3.0 ***	.12	3.0 *	.04	△				
		2	Some	713	20	7,192	23	7,622	24	3,027	22												
		3	Quite a bit	1,600	45	13,887	44	14,227	44	5,943	43												
		4	Very much	1,134	32	8,924	29	9,005	28	4,206	32												
		Total		3,534	100	31,173	100	32,006	100	13,630	100												
c. Analyzing an idea, experience, or line of reasoning in depth by examining its parts	HOanalyze	1	Very little	126	4	1,382	4	1,426	4	577	4	<b>2.9</b>	2.9 **	.05	2.9 **	.06	2.9	.01	△				
		2	Some	929	27	8,597	28	8,998	28	3,670	27												
		3	Quite a bit	1,557	44	13,557	44	13,642	43	5,790	43												
		4	Very much	898	26	7,386	24	7,649	24	3,464	26												
		Total		3,510	100	30,922	100	31,715	100	13,501	100												
d. Evaluating a point of view, decision, or information source	HOevaluate	1	Very little	295	9	2,783	9	2,314	7	1,102	8	<b>2.7</b>	2.7	-0.03	2.7 ***	-0.10	2.7 ***	-0.08	▽				
		2	Some	1,177	34	9,782	32	9,766	31	4,186	31												
		3	Quite a bit	1,412	40	12,405	40	13,045	41	5,374	40												
		4	Very much	613	17	5,816	19	6,453	20	2,795	21												
		Total		3,497	100	30,786	100	31,578	100	13,457	100												
e. Forming a new idea or understanding from various pieces of information	HOform	1	Very little	186	5	2,126	7	1,876	6	845	6	<b>2.8</b>	2.8 *	.04	2.8	.01	2.8	.00	△				
		2	Some	1,041	30	9,206	30	9,452	30	3,946	29												
		3	Quite a bit	1,577	45	13,332	44	13,780	44	5,775	43												
		4	Very much	701	20	5,954	20	6,347	20	2,832	21												
		Total		3,505	100	30,618	100	31,455	100	13,398	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 2020 Frequencies and Statistical Comparisons

## University of Waterloo

### First-Year Students

#### Frequency Distributions<sup>a</sup>

#### Statistical Comparisons<sup>b</sup>

*Your 1st-year students compared with*

Item wording or description	Variable name <sup>c</sup>	Values <sup>d</sup>	Response options	Frequency Distributions <sup>a</sup>								Statistical Comparisons <sup>b</sup>						
				UWaterloo		U15		ON Universities		U6		UWaterloo	U15	ON Universities	U6	Effect size <sup>e</sup>	Effect size <sup>e</sup>	Effect size <sup>e</sup>
				Count	%	Count	%	Count	%	Count	%	Mean	Mean	Mean	Mean	Mean	Mean	
<b>5. During the current school year, to what extent have your instructors done the following?</b>																		
a. Clearly explained course goals and requirements	ETgoals	1	Very little	71	2	842	3	967	3	414	3	<b>3.0</b>	3.0	.02	2.9 ***	.07	2.9 ***	.08
		2	Some	797	23	6,986	23	7,970	26	3,398	26							
		3	Quite a bit	1,748	50	14,896	49	14,634	47	6,327	47							
		4	Very much	876	25	7,730	25	7,730	25	3,211	24							
		Total		3,492	100	30,454	100	31,301	100	13,350	100							
b. Taught course sessions in an organized way	ETorganize	1	Very little	108	3	1,106	4	1,495	5	532	4	<b>2.9</b>	2.9	.03	2.9 ***	.09	2.9 ***	.08
		2	Some	854	24	7,344	24	8,196	26	3,534	27							
		3	Quite a bit	1,689	48	15,202	50	14,497	46	6,288	47							
		4	Very much	825	24	6,693	22	6,967	23	2,918	22							
		Total		3,476	100	30,345	100	31,155	100	13,272	100							
c. Used examples or illustrations to explain difficult points	ETexample	1	Very little	87	3	886	3	1,195	4	447	3	<b>3.0</b>	3.0	.03	2.9 ***	.10	3.0 ***	.08
		2	Some	758	22	6,721	22	7,768	25	3,218	24							
		3	Quite a bit	1,617	46	14,250	47	13,764	44	5,989	45							
		4	Very much	1,013	29	8,467	28	8,422	27	3,608	27							
		Total		3,475	100	30,324	100	31,149	100	13,262	100							
d. Provided feedback on a draft or work in progress	ETdraftfb	1	Very little	550	16	5,953	20	5,927	19	2,698	21	<b>2.4</b>	2.3 ***	.09	2.4 **	.05	2.3 ***	.11
		2	Some	1,381	40	11,819	39	11,905	38	5,216	39							
		3	Quite a bit	1,086	31	8,927	29	9,062	29	3,766	28							
		4	Very much	455	13	3,538	12	4,163	13	1,555	12							
		Total		3,472	100	30,237	100	31,057	100	13,235	100							
e. Provided prompt and detailed feedback on tests or completed assignments	ETfeedback	1	Very little	405	11	4,849	16	5,247	17	2,271	17	<b>2.5</b>	2.4 ***	.15	2.4 ***	.15	2.4 ***	.18
		2	Some	1,337	38	12,274	40	12,388	40	5,411	41							
		3	Quite a bit	1,274	37	9,714	32	9,598	31	4,060	31							
		4	Very much	471	14	3,358	11	3,815	13	1,471	11							
		Total		3,487	100	30,195	100	31,048	100	13,213	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 2020 Frequencies and Statistical Comparisons

## University of Waterloo

### First-Year Students

### Frequency Distributions<sup>a</sup>

### Statistical Comparisons<sup>b</sup>

*Your 1st-year students compared with*

Item wording or description	Variable name <sup>c</sup>	Values <sup>d</sup>	Response options	Frequency Distributions <sup>a</sup>								Statistical Comparisons <sup>b</sup>						
				UWaterloo		U15		ON Universities		U6		UWaterloo	U15	ON Universities		U6		
				Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size <sup>e</sup>	Mean	Effect size <sup>e</sup>	Mean	Effect size <sup>e</sup>
<b>6. During the current school year, about how often have you done the following?</b>																		
a. Reached conclusions based on your own analysis of numerical information (numbers, graphs, statistics, etc.)	QRconclude	1	Never	291	8	4,846	15	5,211	16	2,023	15	<b>2.6</b>	2.4 ***	.21	2.4 ***	.22	2.5 ***	.18
		2	Sometimes	1,265	36	11,383	38	11,632	38	4,899	37							
		3	Often	1,369	40	9,897	34	10,056	34	4,433	35							
		4	Very often	532	16	3,726	13	3,786	13	1,700	14							
		Total		3,457	100	29,852	100	30,685	100	13,055	100							
b. Used numerical information to examine a real-world problem or issue (unemployment, climate change, public health, etc.)	QRproblem	1	Never	735	21	8,006	26	7,544	24	3,046	23	<b>2.3</b>	2.2 ***	.14	2.2 ***	.09	2.2 ***	.06
		2	Sometimes	1,310	38	11,668	39	12,157	40	5,164	40							
		3	Often	1,038	30	7,509	26	8,062	27	3,531	27							
		4	Very often	357	11	2,520	9	2,778	10	1,252	10							
		Total		3,440	100	29,703	100	30,541	100	12,993	100							
c. Evaluated what others have concluded from numerical information	QRevaluate	1	Never	570	16	6,930	22	6,842	21	2,707	20	<b>2.4</b>	2.2 ***	.16	2.2 ***	.13	2.3 ***	.10
		2	Sometimes	1,393	40	12,116	41	12,649	41	5,361	41							
		3	Often	1,158	34	8,232	28	8,425	29	3,725	29							
		4	Very often	327	10	2,317	8	2,529	9	1,151	9							
		Total		3,448	100	29,595	100	30,445	100	12,944	100							
<b>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.)</b>																		
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	235	7	2,592	9	1,893	7	977	9	<b>6.6</b>	6.1 ***	.09	6.6	.00	6.4 *	.04
		1.5	1-2	704	21	6,266	21	5,760	19	2,537	20							
		4	3-5	1,032	30	9,141	31	9,705	32	3,994	31							
		8	6-10	757	22	6,319	21	7,012	23	2,870	22							
		13	11-15	411	12	2,789	10	3,222	11	1,328	10							
		18	16-20	118	3	1,079	4	1,266	4	540	4							
		23	More than 20	173	5	1,184	4	1,406	5	608	5							
		Total		3,430	100	29,370	100	30,264	100	12,854	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	984	29	8,901	31	7,796	27	3,503	30	<b>3.4</b>	3.0 ***	.10	3.4	-.01	3.3	.02
		1.5	1-2	1,070	31	9,782	33	9,864	32	4,089	32							
		4	3-5	727	21	6,001	20	6,736	22	2,789	21							
		8	6-10	373	11	2,830	9	3,577	12	1,447	11							
		13	11-15	176	5	1,098	4	1,349	4	597	4							
		18	16-20	31	1	284	1	373	1	166	1							
		23	More than 20	53	2	348	1	433	1	190	1							
Total		3,414	100	29,244	100	30,128	100	12,781	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 2020 Frequencies and Statistical Comparisons

## University of Waterloo

### First-Year Students

#### Frequency Distributions<sup>a</sup>

#### Statistical Comparisons<sup>b</sup>

*Your 1st-year students compared with*

Item wording or description	Variable name <sup>c</sup>	Values <sup>d</sup>	Response options	Frequency Distributions <sup>a</sup>								Statistical Comparisons <sup>b</sup>									
				UWaterloo		U15		ON Universities		U6		UWaterloo	U15	ON Universities	U6	Effect size <sup>e</sup>	Effect size <sup>e</sup>	Effect size <sup>e</sup>			
				Count	%	Count	%	Count	%	Count	%	Mean	Mean	Mean	Mean	Mean	Mean				
c. 11 pages or more	wrlongnum	0	None	1,824	53	18,507	64	18,351	61	7,539	61	<b>2.1</b>	1.6 ***	.13	1.9 **	.06	1.9 *	.05			
	(Recorded version of wrlong created by NSSE. Values are estimated number of papers, reports, etc.)	1.5	1-2	883	26	6,202	21	6,450	21	2,768	21								△	△	△
		4	3-5	354	10	2,144	7	2,311	8	1,100	8										
		8	6-10	171	5	1,116	4	1,383	5	626	5										
		13	11-15	133	4	805	3	1,036	3	477	4										
		18	16-20	26	1	226	1	273	1	142	1										
		23	More than 20	39	1	328	1	389	1	177	1										
		Total		3,430	100	29,328	100	30,193	100	12,829	100										
Estimated number of assigned pages of student writing.	wrpages		(Continuous variable, recoded and summed by NSSE from wrshort, wrmed, and wrlong. Values are estimated pages of assigned writing.)									<b>77.7</b>	65.7 ***	.13	74.8	.03	73.3 *	.05			
<b>8. During the current school year, about how often have you had discussions with people from the following groups?</b>																					
a. People of a race or ethnicity other than your own	DDrace	1	Never	103	3	1,350	5	1,395	5	520	4	<b>3.3</b>	3.1 ***	.13	3.1 ***	.14	3.2 ***	.07			
		2	Sometimes	658	19	6,454	22	6,502	21	2,622	20								△	△	△
		3	Often	956	28	8,662	29	9,197	30	3,728	29										
		4	Very often	1,724	50	12,924	44	13,155	44	5,987	47										
			Total	3,441	100	29,390	100	30,249	100	12,857	100										
b. People from an economic background other than your own	DDeconomic	1	Never	117	3	1,608	5	1,532	5	613	5	<b>3.1</b>	3.0 ***	.13	3.0 ***	.11	3.0 ***	.07			
		2	Sometimes	814	24	7,886	27	7,846	26	3,271	25								△	△	△
		3	Often	1,177	34	10,069	34	10,466	35	4,336	34										
		4	Very often	1,316	39	9,767	34	10,314	34	4,602	36										
			Total	3,424	100	29,330	100	30,158	100	12,822	100										
c. People with religious beliefs other than your own	DDreligion	1	Never	166	5	2,117	7	1,822	6	730	5	<b>3.1</b>	3.0 ***	.17	3.0 ***	.12	3.1 ***	.08			
		2	Sometimes	680	20	7,570	26	7,270	24	3,032	23								△	△	△
		3	Often	1,122	33	9,110	31	9,669	32	3,965	31										
		4	Very often	1,458	43	10,542	36	11,415	38	5,106	40										
			Total	3,426	100	29,339	100	30,176	100	12,833	100										
d. People with political views other than your own	DDpolitical	1	Never	252	7	2,397	8	2,594	8	1,030	8	<b>2.8</b>	2.8 **	.05	2.8 ***	.07	2.8 **	.06			
		2	Sometimes	1,096	32	9,777	33	10,238	34	4,408	34								△	△	△
		3	Often	1,083	32	9,333	32	9,261	31	3,897	30										
		4	Very often	987	29	7,853	27	8,116	27	3,504	28										
			Total	3,418	100	29,360	100	30,209	100	12,839	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 2020 Frequencies and Statistical Comparisons

## University of Waterloo

### First-Year Students

				Frequency Distributions <sup>a</sup>								Statistical Comparisons <sup>b</sup>							
				UWaterloo		U15		ON Universities		U6		Your 1st-year students compared with							
Item wording or description	Variable name <sup>c</sup>	Values <sup>d</sup>	Response options	Count	%	Count	%	Count	%	Count	%	UWaterloo	U15	ON Universities	U6	Effect size <sup>e</sup>	Effect size <sup>e</sup>	Effect size <sup>e</sup>	Effect size <sup>e</sup>
<b>9. During the current school year, about how often have you done the following?</b>																			
a. Identified key information from reading assignments	LSreading	1	Never	111	3	865	3	809	3	356	3	<b>2.9</b>	2.9 ***	-.09	2.9 ***	-.08	2.9 ***	-.09	
		2	Sometimes	948	28	7,294	25	7,639	26	3,226	25								▽
		3	Often	1,607	47	13,636	47	14,231	47	5,978	47								▽
		4	Very often	747	22	7,384	25	7,354	24	3,193	25								▽
		Total		3,413	100	29,179	100	30,033	100	12,753	100								
b. Reviewed your notes after class	LSnotes	1	Never	209	6	2,115	8	2,231	8	935	8	<b>2.7</b>	2.7 *	-.04	2.7	.00	2.7	-.01	
		2	Sometimes	1,384	41	10,676	37	11,367	38	4,831	38								▽
		3	Often	1,115	33	9,477	32	9,753	33	4,130	32								
		4	Very often	708	21	6,875	23	6,630	22	2,831	22								
		Total		3,416	100	29,143	100	29,981	100	12,727	100								
c. Summarized what you learned in class or from course materials	LSsummary	1	Never	220	7	2,022	7	2,107	7	858	7	<b>2.7</b>	2.8 ***	-.07	2.7	-.02	2.8 *	-.05	
		2	Sometimes	1,192	35	9,271	32	9,994	34	4,204	33								▽
		3	Often	1,274	37	10,310	35	11,012	37	4,574	36								
		4	Very often	730	21	7,589	25	6,917	22	3,128	24								▽
		Total		3,416	100	29,192	100	30,030	100	12,764	100								
<b>10. During the current school year, to what extent have your courses challenged you to do your best work?</b>																			
challenge		1	Not at all	51	2	222	1	281	1	107	1	<b>5.2</b>	5.4 ***	-.12	5.3 **	-.05	5.3 ***	-.08	
		2		49	1	415	1	483	2	199	2								▽
		3		243	7	1,485	5	1,669	6	714	6								
		4		451	13	3,666	13	4,091	14	1,701	13								
		5		1,171	34	9,539	32	10,153	34	4,152	32								
		6		785	23	7,376	25	7,252	24	3,129	25								▽
		7	Very much	660	19	6,344	22	5,982	20	2,702	21								▽
		Total		3,410	100	29,047	100	29,911	100	12,704	100								
<b>11. Which of the following have you done or do you plan to do before you graduate?<sup>f</sup></b>																			
a. Participate in an internship, co-op, field experience, student teaching, or clinical placement	intern		Have not decided	195	6	5,013	17	5,438	18	2,141	17	<b>22%</b>	7% ***	.43	5% ***	.50	5% ***	.52	
			Do not plan to do	193	6	1,981	7	2,269	8	898	7								▲
			Plan to do	2,293	67	19,906	69	20,415	68	9,007	71								▲
			Done or in progress	712	22	2,074	7	1,715	5	627	5								▲
			Total		3,393	100	28,974	100	29,837	100	12,673								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 2020 Frequencies and Statistical Comparisons

## University of Waterloo

### First-Year Students

#### Frequency Distributions<sup>a</sup>

#### Statistical Comparisons<sup>b</sup>

*Your 1st-year students compared with*

Item wording or description	Variable name <sup>c</sup>	Values <sup>d</sup>	Response options	UWaterloo				U15				ON Universities				U6				UWaterloo		U15		ON Universities		U6	
				Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Mean	Effect size <sup>e</sup>	Mean	Effect size <sup>e</sup>	Mean	Effect size <sup>e</sup>	Mean	Effect size <sup>e</sup>
b. Hold a formal leadership role in a student organization or group	leader	(Means indicate the percentage who responded "Done or in progress.")	Have not decided	803	24	8,314	28	8,760	29	3,482	27	<b>12%</b>	8% ***	.13	8% ***	.16	9% ***	.11	△	△	△	△	△	△	△		
			Do not plan to do	733	22	8,896	30	8,538	29	3,251	25																
			Plan to do	1,432	42	9,339	33	10,251	35	4,829	39																
			Done or in progress	415	12	2,334	8	2,168	8	1,061	9																
			Total	3,383	100	28,883	100	29,717	100	12,623	100																
c. Participate in a learning community or some other formal program where groups of students take two or more classes together	learncom	(Means indicate the percentage who responded "Done or in progress.")	Have not decided	861	25	9,972	34	10,548	35	4,319	34	<b>16%</b>	10% ***	.19	7% ***	.27	9% ***	.22	△	△	△	△	△	△			
			Do not plan to do	981	29	8,630	30	8,351	29	3,467	28																
			Plan to do	990	29	7,380	26	8,552	29	3,706	30																
			Done or in progress	547	16	2,802	10	2,177	7	1,095	9																
			Total	3,379	100	28,784	100	29,628	100	12,587	100																
d. Participate in a study abroad program	abroad	(Means indicate the percentage who responded "Done or in progress.")	Have not decided	1,025	30	8,734	30	9,048	30	3,681	29	<b>3%</b>	3%	.01	3%	.00	3%	-.01	△	△	△	△	△	△			
			Do not plan to do	1,072	32	8,621	31	9,344	33	3,676	31																
			Plan to do	1,189	34	10,674	36	10,425	34	4,862	37																
			Done or in progress	90	3	734	3	771	3	350	3																
			Total	3,376	100	28,763	100	29,588	100	12,569	100																
e. Work with a faculty member on a research project	research	(Means indicate the percentage who responded "Done or in progress.")	Have not decided	1,181	35	10,488	36	10,972	37	4,317	34	<b>3%</b>	3%	.01	3%	.02	3%	.01	△	△	△	△	△	△			
			Do not plan to do	765	23	6,396	22	6,668	23	2,452	19																
			Plan to do	1,333	39	11,061	39	11,195	38	5,459	44																
			Done or in progress	103	3	838	3	793	3	352	3																
			Total	3,382	100	28,783	100	29,628	100	12,580	100																
f. Complete a culminating senior experience (capstone course, senior project or thesis, comprehensive exam, portfolio, etc.)	capstone	(Means indicate the percentage who responded "Done or in progress.")	Have not decided	1,061	31	11,631	40	11,866	39	4,892	38	<b>3%</b>	2% ***	.06	2% ***	.06	2% **	.06	△	△	△	△	△	△			
			Do not plan to do	545	16	5,241	18	5,512	19	2,152	17																
			Plan to do	1,678	50	11,308	40	11,635	40	5,280	43																
			Done or in progress	99	3	578	2	598	2	254	2																
			Total	3,383	100	28,758	100	29,611	100	12,578	100																
<b>12. About how many of your courses at this institution have included a community-based project (service-learning)?</b>																											
	servcourse		1 None	1,872	56	17,776	61	16,558	55	7,291	57	<b>1.6</b>	1.5 ***	.11	1.6	.01	1.5 *	.04	△	△	△	△	△	△			
			2 Some	1,134	34	8,724	31	10,320	36	4,222	35																
			3 Most	274	8	1,744	6	2,132	7	829	7																
			4 All	57	2	381	1	457	2	181	2																
			Total	3,337	100	28,625	100	29,467	100	12,523	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 2020 Frequencies and Statistical Comparisons

## University of Waterloo

### First-Year Students

				Frequency Distributions <sup>a</sup>								Statistical Comparisons <sup>b</sup>							
				UWaterloo		U15		ON Universities		U6		<i>Your 1st-year students compared with</i>							
Item wording or description	Variable name <sup>c</sup>	Values <sup>d</sup>	Response options	Count	%	Count	%	Count	%	Count	%	UWaterloo	U15	ON Universities	U6	Effect size <sup>e</sup>	Effect size <sup>e</sup>	Effect size <sup>e</sup>	Effect size <sup>e</sup>
<b>13. Indicate the quality of your interactions with the following people at your institution.</b>																			
a. Students	QIstudent	1	Poor	67	2	487	2	568	2	238	2	<b>5.4</b>	5.4	-.02	5.4 *	.04	5.4	.03	
				78	2	628	2	734	3	321	3								
				177	5	1,393	5	1,524	5	666	5								
				371	11	3,131	11	3,590	12	1,452	12								
				870	26	7,566	26	7,858	27	3,377	27								
				1,000	30	8,366	29	8,239	28	3,603	29								
				812	24	6,806	24	6,721	23	2,796	22								
				13	0	290	1	275	1	94	1								
3,388	100	28,667	100	29,509	100	12,547	100												
b. Academic advisors	QIadvisor	1	Poor	135	4	1,279	4	1,292	4	594	5	<b>4.8</b>	4.8	.00	4.8	-.01	4.8	.03	
				169	5	1,325	4	1,423	5	615	5								
				242	7	2,111	7	2,302	8	1,009	8								
				476	14	3,608	13	4,057	14	1,711	14								
				756	22	5,361	19	5,856	20	2,547	21								
				562	17	4,479	16	4,930	17	1,934	16								
				473	14	3,839	14	4,348	15	1,646	14								
				560	17	6,610	23	5,237	17	2,461	19								
3,373	100	28,612	100	29,445	100	12,517	100												
c. Faculty	QIfaculty	1	Poor	87	3	889	3	1,058	3	487	4	<b>5.0</b>	5.0	.03	4.9 ***	.07	4.9 ***	.09	
				97	3	1,077	4	1,211	4	527	4								
				244	7	2,077	7	2,382	8	1,041	8								
				573	17	4,387	15	4,710	16	2,010	16								
				928	27	7,945	28	7,958	27	3,403	27								
				824	24	6,672	24	6,606	23	2,709	22								
				497	15	3,833	14	4,021	14	1,588	13								
				129	4	1,738	6	1,496	5	756	6								
3,379	100	28,618	100	29,442	100	12,521	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 2020 Frequencies and Statistical Comparisons

## University of Waterloo

### First-Year Students

#### Frequency Distributions<sup>a</sup>

#### Statistical Comparisons<sup>b</sup>

*Your 1st-year students compared with*

Item wording or description	Variable name <sup>c</sup>	Values <sup>d</sup>	Response options	Frequency Distributions <sup>a</sup>								Statistical Comparisons <sup>b</sup>							
				UWaterloo		U15		ON Universities		U6		UWaterloo	U15		ON Universities		U6		
				Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size <sup>e</sup>	Mean	Effect size <sup>e</sup>	Mean	Effect size <sup>e</sup>	
d. Student services staff (career services, student activities, housing, etc.)	QIstaff	1	Poor	114	3	1,209	4	1,464	5	617	5	<b>4.9</b>	4.9	.03	4.8 *	.05	4.8 ***	.07	
		2		123	4	1,165	4	1,285	4	577	4								
		3		267	8	1,931	7	2,163	7	996	8								
		4		491	15	3,491	12	3,824	13	1,681	13								
		5		792	24	5,329	19	5,799	20	2,523	20								
		6		648	19	4,763	17	5,062	18	2,100	17								
		7	Excellent	472	14	3,631	13	4,055	14	1,606	13								
		—	Not applicable	469	14	7,086	24	5,782	19	2,420	19								
	Total			3,376	100	28,605	100	29,434	100	12,520	100								
e. Other administrative staff and offices (registrar, financial aid, etc.)	QIadmin	1	Poor	127	4	1,307	4	1,464	5	648	5	<b>4.8</b>	4.8	-.02	4.8	.00	4.7	.02	
		2		145	4	1,302	4	1,530	5	676	5								
		3		271	8	2,081	7	2,321	8	1,040	8								
		4		477	14	3,534	12	4,057	14	1,717	14								
		5		691	20	5,453	19	6,016	21	2,565	21								
		6		582	17	4,725	17	5,072	17	2,053	17								
		7	Excellent	384	11	3,521	13	3,901	14	1,548	13								
		—	Not applicable	701	21	6,698	23	5,098	17	2,278	18								
	Total			3,378	100	28,621	100	29,459	100	12,525	100								
<b>14. How much does your institution emphasize the following?</b>																			
a. Spending significant amounts of time studying and on academic work	empstudy	1	Very little	28	1	404	1	520	2	189	2	<b>3.3</b>	3.2 ***	.19	3.1 ***	.32	3.2 ***	.18	
		2	Some	412	12	4,483	16	5,661	20	2,056	17								
		3	Quite a bit	1,313	39	12,713	44	13,446	46	5,288	42								
		4	Very much	1,612	48	10,914	38	9,699	33	4,944	40								
			Total			3,365	100	28,514	100	29,326	100								12,477
b. Providing support to help students succeed academically	SEacademic	1	Very little	125	4	1,710	6	1,811	6	845	7	<b>2.9</b>	2.8 ***	.14	2.8 ***	.10	2.7 ***	.18	
		2	Some	878	26	8,744	31	8,574	29	3,968	32								
		3	Quite a bit	1,624	48	12,697	45	12,552	43	5,377	43								
		4	Very much	724	22	5,285	19	6,323	21	2,257	18								
			Total			3,351	100	28,436	100	29,260	100								12,447
c. Using learning support services (tutoring services, writing center, etc.)	SElearnsup	1	Very little	221	7	2,893	10	2,742	10	1,135	10	<b>2.8</b>	2.7 ***	.13	2.8 **	.05	2.7 ***	.09	
		2	Some	906	27	8,261	29	7,853	27	3,462	29								
		3	Quite a bit	1,452	43	11,462	40	11,663	40	5,127	41								
		4	Very much	764	23	5,780	20	6,964	23	2,699	21								
			Total			3,343	100	28,396	100	29,222	100								12,423

\*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 2020 Frequencies and Statistical Comparisons

## University of Waterloo

### First-Year Students

#### Frequency Distributions<sup>a</sup>

#### Statistical Comparisons<sup>b</sup>

*Your 1st-year students compared with*

Item wording or description	Variable name <sup>c</sup>	Values <sup>d</sup>	Response options	Frequency Distributions <sup>a</sup>								Statistical Comparisons <sup>b</sup>								
				UWaterloo		U15		ON Universities		U6		UWaterloo	U15		ON Universities		U6			
				Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size <sup>e</sup>	Mean	Effect size <sup>e</sup>	Mean	Effect size <sup>e</sup>		
d. Encouraging contact among students from different backgrounds (social, racial/ethnic, religious, etc.)	SEdiverse	1	Very little	564	17	5,542	19	5,291	18	2,421	19	<b>2.5</b>	2.4 **	.05	2.5	.00	2.4 **	.05		
		2	Some	1,156	35	9,800	34	9,820	34	4,364	35								△	△
		3	Quite a bit	1,100	33	8,710	31	9,203	32	3,743	30									
		4	Very much	520	16	4,317	16	4,868	17	1,886	15									
		Total		3,340	100	28,369	100	29,182	100	12,414	100									
e. Providing opportunities to be involved socially	SEsocial	1	Very little	333	10	3,010	10	3,077	11	1,398	11	<b>2.6</b>	2.7 **	-.05	2.7 ***	-.07	2.6	-.02		
		2	Some	1,154	35	8,998	32	9,158	31	4,137	33								▽	▽
		3	Quite a bit	1,293	39	11,137	39	11,135	38	4,641	37									
		4	Very much	556	17	5,191	19	5,774	20	2,228	18									
		Total		3,336	100	28,336	100	29,144	100	12,404	100									
f. Providing support for your overall well-being (recreation, health care, counseling, etc.)	SEwellness	1	Very little	257	8	4,170	14	3,906	13	2,228	17	<b>2.7</b>	2.6 ***	.17	2.6 ***	.10	2.5 ***	.24		
		2	Some	1,050	32	9,094	32	8,894	31	4,077	33								△	△
		3	Quite a bit	1,340	40	10,106	36	10,444	36	4,088	34									
		4	Very much	692	21	4,944	18	5,885	20	1,995	17									
		Total		3,339	100	28,314	100	29,129	100	12,388	100									
g. Helping you manage your non-academic responsibilities (work, family, etc.)	SEnonacad	1	Very little	870	26	9,951	35	9,413	32	4,468	35	<b>2.2</b>	2.0 ***	.20	2.1 ***	.10	2.0 ***	.19		
		2	Some	1,280	38	10,397	37	10,557	36	4,460	36								△	△
		3	Quite a bit	873	26	5,934	21	6,484	23	2,533	21									
		4	Very much	305	9	2,004	7	2,626	9	920	8									
		Total		3,328	100	28,286	100	29,080	100	12,381	100									
h. Attending campus activities and events (performing arts, athletic events, etc.)	SEactivities	1	Very little	603	18	4,644	16	4,865	17	2,146	17	<b>2.4</b>	2.4 ***	-.09	2.5 ***	-.10	2.4 *	-.04		
		2	Some	1,272	38	10,029	36	10,222	35	4,648	37								▽	▽
		3	Quite a bit	1,086	32	9,775	35	9,747	34	4,008	32									
		4	Very much	374	11	3,801	13	4,230	15	1,580	13									
		Total		3,335	100	28,249	100	29,064	100	12,382	100									
i. Attending events that address important social, economic, or political issues	SEevents	1	Very little	762	23	6,096	21	6,383	22	2,842	23	<b>2.2</b>	2.3	-.03	2.3 **	-.05	2.2	.01		
		2	Some	1,370	41	11,489	41	11,524	39	5,152	41									
		3	Quite a bit	896	27	8,095	29	8,227	29	3,340	27									
		4	Very much	313	9	2,589	9	2,955	10	1,048	9									
		Total		3,341	100	28,269	100	29,089	100	12,382	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 2020 Frequencies and Statistical Comparisons

## University of Waterloo

### First-Year Students

				Frequency Distributions <sup>a</sup>								Statistical Comparisons <sup>b</sup>						
				UWaterloo		U15		ON Universities		U6		<i>Your 1st-year students compared with</i>						
Item wording or description	Variable name <sup>c</sup>	Values <sup>d</sup>	Response options	Count	%	Count	%	Count	%	Count	%	UWaterloo	U15	ON Universities	U6	Effect size <sup>e</sup>		
												Mean	Mean	Effect size <sup>e</sup>	Mean	Effect size <sup>e</sup>	Mean	Effect size <sup>e</sup>
<b>15. To what extent do you agree or disagree with the following statements?</b>																		
a. I feel comfortable being myself at this institution.	SBmyself	1	Strongly disagree	53	2	619	2	728	3	330	3	<b>3.2</b>	3.2	-.02	3.1 *	.04	3.1 ***	.07
		2	Disagree	327	10	2,697	10	2,985	10	1,407	12							
		3	Agree	1,974	59	15,882	56	16,722	57	7,123	57							
		4	Strongly agree	995	30	9,060	32	8,641	30	3,516	29							
		Total		3,349	100	28,258	100	29,076	100	12,376	100							
b. I feel valued by this institution.	SBvalued	1	Strongly disagree	144	4	1,870	7	1,859	7	1,046	9	<b>2.8</b>	2.8 **	.05	2.8 *	.04	2.7 ***	.17
		2	Disagree	884	27	7,384	26	7,524	26	3,683	30							
		3	Agree	1,843	55	14,713	52	15,490	53	6,109	49							
		4	Strongly agree	472	14	4,243	15	4,172	15	1,525	13							
		Total		3,343	100	28,210	100	29,045	100	12,363	100							
c. I feel like part of the community at this institution.	SBcommunity	1	Strongly disagree	117	4	1,663	6	1,725	6	874	7	<b>2.9</b>	2.8 ***	.08	2.8 ***	.08	2.8 ***	.13
		2	Disagree	733	22	6,681	23	6,810	23	3,026	24							
		3	Agree	1,907	57	15,033	53	15,540	53	6,493	52							
		4	Strongly agree	591	18	4,875	18	4,997	18	1,987	17							
		Total		3,348	100	28,252	100	29,072	100	12,380	100							
<b>16. About how many hours do you spend in a typical 7-day week doing the following?</b>																		
a. Preparing for class (studying, reading, writing, doing homework or lab work, analyzing data, rehearsing, and other academic activities)	tmprephrs	0	0 hrs	31	1	144	1	174	1	68	1	<b>18.5</b>	17.0 ***	.17	15.9 ***	.29	17.2 ***	.14
		3	1-5 hrs	279	8	2,777	10	3,230	11	1,100	9							
		8	6-10 hrs	459	14	4,990	18	5,580	19	2,092	17							
		13	11-15 hrs	577	17	5,471	19	6,047	21	2,428	20							
		18	16-20 hrs	613	18	5,428	19	5,591	19	2,434	20							
		23	21-25 hrs	520	15	3,911	14	3,787	13	1,781	14							
		28	26-30 hrs	338	10	2,355	8	2,075	7	1,068	9							
		33	More than 30 hrs	530	16	3,093	11	2,528	9	1,374	12							
Total		3,347	100	28,169	100	29,012	100	12,345	100									
b. Participating in co-curricular activities (organizations, campus publications, student government, fraternity or sorority, intercollegiate or intramural sports, etc.)	tmcocurrhrs	0	0 hrs	989	29	12,684	44	12,900	43	4,899	38	<b>5.2</b>	4.1 ***	.18	4.5 ***	.11	4.7 ***	.09
		3	1-5 hrs	1,309	39	8,968	32	8,864	31	4,200	35							
		8	6-10 hrs	485	15	3,060	11	3,069	11	1,445	12							
		13	11-15 hrs	299	9	1,558	6	1,930	7	826	7							
		18	16-20 hrs	132	4	956	4	1,145	4	496	4							
		23	21-25 hrs	75	2	539	2	639	2	275	2							
		28	26-30 hrs	26	1	139	1	171	1	66	1							
33	More than 30 hrs	22	1	187	1	218	1	94	1									
Total		3,337	100	28,091	100	28,936	100	12,301	100									

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# NSSE 2020 Frequencies and Statistical Comparisons

## University of Waterloo

### First-Year Students

				Frequency Distributions <sup>a</sup>								Statistical Comparisons <sup>b</sup>						
				UWaterloo		U15		ON Universities		U6		<i>Your 1st-year students compared with</i>						
Item wording or description	Variable name <sup>c</sup>	Values <sup>d</sup>	Response options	Count	%	Count	%	Count	%	Count	%	UWaterloo	U15	ON Universities	U6	Effect size <sup>e</sup>		
												Mean	Mean	Effect size <sup>e</sup>	Mean	Effect size <sup>e</sup>	Mean	Effect size <sup>e</sup>
c. Working for pay on campus	tmworkonhrs	0	0 hrs	2,908	87	25,547	91	25,873	89	11,028	89	<b>1.8</b>	1.2 *** ▲	.12	1.5 ** ▲	.05	1.5 ** ▲	.06
	(Recorded version of tmworkon created by NSSE. Values are estimated number of hours per week.)	3	1-5 hrs	73	2	523	2	485	2	208	2							
	8	6-10 hrs	76	2	606	2	662	2	287	2								
	13	11-15 hrs	129	4	579	2	789	3	328	3								
	18	16-20 hrs	69	2	393	1	541	2	221	2								
	23	21-25 hrs	54	2	269	1	354	1	144	1								
	28	26-30 hrs	12	0	72	0	102	0	40	0								
	33	More than 30 hrs	16	0	101	0	108	0	49	0								
	Total		3,337	100	28,090	100	28,914	100	12,305	100								
d. Working for pay off campus	tmworkoffhrs	0	0 hrs	2,652	80	16,789	62	17,431	61	8,351	69	<b>2.9</b>	5.1 *** ▼	-.28	5.6 *** ▼	-.32	4.1 *** ▼	-.17
	(Recorded version of tmworkoff created by NSSE. Values are estimated number of hours per week.)	3	1-5 hrs	118	3	1,913	7	1,766	6	683	5							
	8	6-10 hrs	132	4	2,605	9	2,341	8	885	7								
	13	11-15 hrs	192	6	2,743	9	2,733	9	963	7								
	18	16-20 hrs	97	3	2,305	8	2,440	8	783	6								
	23	21-25 hrs	86	3	990	3	1,226	4	387	3								
	28	26-30 hrs	15	0	325	1	462	2	113	1								
	33	More than 30 hrs	42	1	454	2	548	2	154	1								
	Total		3,334	100	28,124	100	28,947	100	12,319	100								
Estimated number of hours working for pay	tmworkhrs		(Continuous variable created by NSSE)									<b>4.6</b>	6.3 *** ▼	-.17	7.1 *** ▼	-.22	5.6 *** ▼	-.09
e. Doing community service or volunteer work	tmservicehrs	0	0 hrs	2,353	71	18,677	67	19,465	67	8,372	68	<b>2.4</b>	2.2	.03	2.5	-.02	2.3	.01
	(Recorded version of tmservice created by NSSE. Values are estimated number of hours per week.)	3	1-5 hrs	571	17	6,253	22	5,615	19	2,454	20							
	8	6-10 hrs	139	4	1,476	5	1,644	6	637	5								
	13	11-15 hrs	120	4	800	3	991	4	389	3								
	18	16-20 hrs	74	2	462	2	633	2	243	2								
	23	21-25 hrs	58	2	271	1	367	1	150	1								
	28	26-30 hrs	13	0	75	0	83	0	33	0								
	33	More than 30 hrs	13	0	102	0	134	1	43	0								
	Total		3,341	100	28,116	100	28,932	100	12,321	100								

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# NSSE 2020 Frequencies and Statistical Comparisons

## University of Waterloo

### First-Year Students

### Frequency Distributions<sup>a</sup>

### Statistical Comparisons<sup>b</sup>

*Your 1st-year students compared with*

Item wording or description	Variable name <sup>c</sup>	Values <sup>d</sup>	Response options	Frequency Distributions <sup>a</sup>								Statistical Comparisons <sup>b</sup>						
				UWaterloo		U15		ON Universities		U6		UWaterloo	U15	ON Universities	U6	Effect size <sup>e</sup>	Effect size <sup>e</sup>	Effect size <sup>e</sup>
				Count	%	Count	%	Count	%	Count	%	Mean	Mean	Mean	Mean	Mean	Mean	
f. Relaxing and socializing (time with friends, video games, TV or videos, keeping up with friends online, etc.)	tmrelaxhrs <i>(Recorded version of tmrelax created by NSSE. Values are estimated number of hours per week.)</i>	0	0 hrs	65	2	584	2	621	2	292	2	<b>12.8</b>	12.9	-01	13.3 ***	-06	13.1	-03
		3	1-5 hrs	595	18	5,229	18	5,024	17	2,136	17							
		8	6-10 hrs	874	26	7,433	26	7,224	24	3,188	26							
		13	11-15 hrs	769	23	6,126	22	6,443	22	2,749	22							
		18	16-20 hrs	507	15	4,197	15	4,494	16	1,891	16							
		23	21-25 hrs	232	7	1,962	7	2,162	8	871	7							
		28	26-30 hrs	100	3	842	3	877	3	364	3							
		33	More than 30 hrs	193	6	1,748	7	2,082	8	828	7							
	Total			3,335	100	28,121	100	28,927	100	12,319	100							
g. Providing care for dependents (children, parents, etc.)	tmcarehrs <i>(Recorded version of tmcare created by NSSE. Values are estimated number of hours per week.)</i>	0	0 hrs	2,586	78	19,871	71	19,300	66	8,624	70	<b>2.2</b>	2.7 ***	-07	3.4 ***	-17	2.9 ***	-10
		3	1-5 hrs	304	9	3,934	14	4,228	14	1,657	13							
		8	6-10 hrs	139	4	1,680	6	1,962	7	768	6							
		13	11-15 hrs	140	4	1,020	4	1,374	5	532	4							
		18	16-20 hrs	76	2	619	2	865	3	319	3							
		23	21-25 hrs	53	2	376	1	503	2	192	2							
		28	26-30 hrs	17	1	130	0	154	1	57	0							
		33	More than 30 hrs	13	0	436	2	494	2	144	1							
	Total			3,328	100	28,066	100	28,880	100	12,293	100							
h. Commuting to campus (driving, walking, etc.)	tmcommutehrs <i>(Recorded version of tmcommute created by NSSE. Values are estimated number of hours per week.)</i>	0	0 hrs	686	20	4,682	17	6,148	21	2,752	22	<b>5.0</b>	6.7 ***	-26	6.8 ***	-26	6.5 ***	-23
		3	1-5 hrs	1,763	53	10,534	38	10,076	35	4,306	36							
		8	6-10 hrs	469	14	6,481	23	5,984	21	2,451	20							
		13	11-15 hrs	205	6	3,771	13	3,612	13	1,540	12							
		18	16-20 hrs	103	3	1,442	5	1,615	6	693	6							
		23	21-25 hrs	74	2	609	2	741	3	297	3							
		28	26-30 hrs	20	1	209	1	263	1	107	1							
		33	More than 30 hrs	26	1	397	1	499	2	178	1							
	Total			3,346	100	28,125	100	28,938	100	12,324	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 2020 Frequencies and Statistical Comparisons

## University of Waterloo

### First-Year Students

#### Frequency Distributions<sup>a</sup>

#### Statistical Comparisons<sup>b</sup>

*Your 1st-year students compared with*

Item wording or description	Variable name <sup>c</sup>	Values <sup>d</sup>	Response options	Frequency Distributions <sup>a</sup>								Statistical Comparisons <sup>b</sup>							
				UWaterloo		U15		ON Universities		U6		UWaterloo	U15	ON Universities	U6	Effect size <sup>e</sup>	Effect size <sup>e</sup>	Effect size <sup>e</sup>	
				Count	%	Count	%	Count	%	Count	%	Mean	Mean	Mean	Mean	Mean	Mean		
<b>17. Of the time you spend preparing for class in a typical 7-day week, about how much is on assigned reading?</b>																			
	reading	1	Very little	888	27	4,427	16	4,514	15	1,893	15	<b>2.3</b>	2.7 *** ▼	-0.35	2.7 *** ▼	-0.37	2.8 *** ▼	-0.39	
		2	Some	1,240	37	9,008	32	8,984	31	3,707	31								
		3	About half	645	19	6,916	25	7,562	27	3,140	26								
		4	Most	401	12	5,410	19	5,549	19	2,496	20								
		5	Almost all	159	5	2,310	8	2,267	8	1,056	8								
			Total	3,333	100	28,071	100	28,876	100	12,292	100								
	tmreadinghrs											<b>6.2</b>	7.5 *** ▽	-0.19	7.1 *** ▽	-0.14	7.8 *** ▽	-0.24	
	<i>(Continuous variable created by NSSE. Calculated as a proportion of tmprehrs based on reading, where Very little=.10; Some=.25; About half=.50; Most=.75; Almost all=.90)</i>																		
	tmreadinghrscol	1	0 hrs	31	1	142	1	172	1	67	1								
		2	More than zero, up to 5 hrs	1,783	54	12,742	46	13,699	48	5,304	43								
		3	More than 5, up to 10 hrs	937	28	8,358	30	8,350	29	3,707	30								
		4	More than 10, up to 15 hrs	262	8	2,980	11	3,057	10	1,400	11								
		5	More than 15, up to 20 hrs	163	5	1,773	6	1,715	6	846	7								
		6	More than 20, up to 25 hrs	101	3	1,369	5	1,271	4	664	5								
		7	More than 25 hrs	41	1	617	2	519	2	263	2								
			Total	3,318	100	27,981	100	28,783	100	12,251	100								
<b>18. How much has your experience at this institution contributed to your knowledge, skills, and personal development in the following areas?</b>																			
a.	Writing clearly and effectively	pgwrite	1	Very little	345	11	3,504	13	3,003	11	1,397	12	<b>2.6</b>	2.6 ** △	.05	2.6	-0.01	2.6	.03
			2	Some	1,133	34	9,444	34	9,379	33	4,113	34							
			3	Quite a bit	1,334	40	10,849	38	11,883	41	4,841	39							
			4	Very much	517	16	4,230	15	4,570	16	1,922	16							
			Total		3,329	100	28,027	100	28,835	100	12,273	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 2020 Frequencies and Statistical Comparisons

## University of Waterloo

### First-Year Students

#### Frequency Distributions<sup>a</sup>

#### Statistical Comparisons<sup>b</sup>

*Your 1st-year students compared with*

Item wording or description	Variable name <sup>c</sup>	Values <sup>d</sup>	Response options	Frequency Distributions <sup>a</sup>								Statistical Comparisons <sup>b</sup>									
				UWaterloo		U15		ON Universities		U6		UWaterloo	U15		ON Universities		U6				
				Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size <sup>e</sup>	Mean	Effect size <sup>e</sup>	Mean	Effect size <sup>e</sup>			
b. Speaking clearly and effectively	pgspeak	1	Very little	502	15	6,112	22	5,589	19	2,740	22	<b>2.5</b>	2.3 ***	.15	2.4 ***	.06	2.3 ***	.15			
		2	Some	1,198	36	9,948	36	9,913	34	4,293	35								△	△	△
		3	Quite a bit	1,173	35	8,592	31	9,471	33	3,758	30										
		4	Very much	445	13	3,314	12	3,806	13	1,462	12										
		Total		3,318	100	27,966	100	28,779	100	12,253	100										
c. Thinking critically and analytically	pgthink	1	Very little	102	3	1,086	4	1,002	4	443	4	<b>3.1</b>	3.0 ***	.10	3.0 ***	.08	3.0 **	.06			
		2	Some	604	18	5,862	21	5,927	20	2,525	20								△	△	△
		3	Quite a bit	1,504	45	12,938	46	13,294	46	5,601	45										
		4	Very much	1,104	33	8,101	30	8,555	30	3,680	31										
		Total		3,314	100	27,987	100	28,778	100	12,249	100										
d. Analyzing numerical and statistical information	pganalyze	1	Very little	264	8	4,723	16	5,443	18	2,156	16	<b>2.9</b>	2.6 ***	.29	2.6 ***	.34	2.6 ***	.29			
		2	Some	776	23	7,944	28	8,315	29	3,404	27								△	▲	△
		3	Quite a bit	1,310	40	9,632	35	9,468	34	4,172	35										
		4	Very much	952	29	5,694	21	5,569	20	2,520	22										
		Total		3,302	100	27,993	100	28,795	100	12,252	100										
e. Acquiring job- or work-related knowledge and skills	pgwork	1	Very little	391	12	6,077	22	6,129	21	2,950	24	<b>2.7</b>	2.4 ***	.37	2.4 ***	.37	2.3 ***	.44			
		2	Some	943	28	9,612	34	10,102	35	4,335	35								▲	▲	▲
		3	Quite a bit	1,231	37	8,466	30	8,643	30	3,477	28										
		4	Very much	752	23	3,821	14	3,904	14	1,488	12										
		Total		3,317	100	27,976	100	28,778	100	12,250	100										
f. Working effectively with others	pgothers	1	Very little	244	7	3,549	13	3,355	11	1,686	13	<b>2.8</b>	2.6 ***	.17	2.6 ***	.12	2.6 ***	.18			
		2	Some	1,005	30	9,130	32	9,199	32	4,001	32								△	△	△
		3	Quite a bit	1,379	41	10,430	37	10,782	38	4,406	36										
		4	Very much	691	21	4,878	18	5,434	19	2,155	18										
		Total		3,319	100	27,987	100	28,770	100	12,248	100										
g. Developing or clarifying a personal code of values and ethics	pgvalues	1	Very little	555	17	5,155	19	4,625	16	2,271	19	<b>2.5</b>	2.4 **	.05	2.5	-.02	2.4 *	.04			
		2	Some	1,064	32	9,403	33	9,465	33	4,087	33								△		△
		3	Quite a bit	1,212	36	9,424	33	10,115	35	4,103	33										
		4	Very much	489	15	3,978	14	4,552	16	1,781	15										
		Total		3,320	100	27,960	100	28,757	100	12,242	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 2020 Frequencies and Statistical Comparisons

## University of Waterloo

### First-Year Students

#### Frequency Distributions<sup>a</sup>

#### Statistical Comparisons<sup>b</sup>

*Your 1st-year students compared with*

Item wording or description	Variable name <sup>c</sup>	Values <sup>d</sup>	Response options	Frequency Distributions <sup>a</sup>								Statistical Comparisons <sup>b</sup>							
				UWaterloo		U15		ON Universities		U6		UWaterloo	U15		ON Universities		U6		
				Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size <sup>e</sup>	Mean	Effect size <sup>e</sup>	Mean	Effect size <sup>e</sup>	
h. Understanding people of other backgrounds (economic, racial/ethnic, political, religious, nationality, etc.)	pgdiverse	1	Very little	589	18	4,515	17	3,942	14	1,897	16	<b>2.5</b>	2.5 *	-.04	2.6 ***	-.13	2.6 **	-.06	
		2	Some	1,036	31	8,830	31	8,688	30	3,890	32								
		3	Quite a bit	1,120	34	9,531	34	10,300	36	4,207	34								
		4	Very much	571	17	5,082	18	5,846	20	2,248	19								
		Total		3,316	100	27,958	100	28,776	100	12,242	100								
i. Solving complex real-world problems	pgprobsolve	1	Very little	374	11	4,367	15	4,231	15	1,862	15	<b>2.7</b>	2.5 ***	.20	2.5 ***	.16	2.5 ***	.18	
		2	Some	1,007	30	9,943	35	9,973	35	4,295	35								
		3	Quite a bit	1,249	37	9,304	33	9,800	34	4,095	33								
		4	Very much	692	21	4,339	16	4,759	17	1,985	17								
		Total		3,322	100	27,953	100	28,763	100	12,237	100								
j. Being an informed and active citizen	pgcitizen	1	Very little	573	17	4,751	17	4,506	16	2,162	18	<b>2.4</b>	2.5	-.03	2.5 ***	-.07	2.5	-.02	
		2	Some	1,173	35	9,701	34	9,739	34	4,208	34								
		3	Quite a bit	1,101	33	9,286	33	9,851	34	4,015	33								
		4	Very much	481	14	4,251	15	4,715	16	1,872	15								
		Total		3,328	100	27,989	100	28,811	100	12,257	100								
<b>19. How would you evaluate your entire educational experience at this institution?</b>																			
evalexp		1	Poor	85	3	829	3	937	4	442	4	<b>3.1</b>	3.0 ***	.10	2.9 ***	.14	2.9 ***	.17	
		2	Fair	549	17	5,468	19	6,033	21	2,791	22								
		3	Good	1,803	54	15,374	54	15,441	53	6,437	51								
		4	Excellent	904	27	6,392	24	6,507	23	2,630	22								
		Total		3,341	100	28,063	100	28,918	100	12,300	100								
<b>20. If you could start over again, would you go to the same institution you are now attending?</b>																			
sameinst		1	Definitely no	93	3	880	3	1,118	4	514	4	<b>3.2</b>	3.2 ***	.07	3.1 ***	.18	3.1 ***	.18	
		2	Probably no	378	11	3,554	13	4,250	15	1,862	15								
		3	Probably yes	1,493	45	13,188	46	13,897	48	5,841	47								
		4	Definitely yes	1,384	41	10,526	38	9,742	33	4,130	34								
		Total		3,348	100	28,148	100	29,007	100	12,347	100								
<b>21. Do you intend to return to this institution next year?<sup>f</sup></b>																			
returnexp	(Means indicate the percentage who responded "Yes.")	No		105	3	858	3	1,060	4	418	4	<b>93%</b>	90% ***	.13	88% ***	.17	88% ***	.17	
		Yes		3,129	93	25,310	90	25,797	88	10,959	88								
		Not sure		121	4	2,002	7	2,160	8	979	8								
		Total		3,355	100	28,170	100	29,017	100	12,356	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 2020 Frequencies and Statistical Comparisons

## University of Waterloo

### Seniors

#### Frequency Distributions<sup>a</sup>

#### Statistical Comparisons<sup>b</sup>

*Your 4th-year students compared with*

Item wording or description	Variable name <sup>c</sup>	Values <sup>d</sup>	Response options	Frequency Distributions <sup>a</sup>								Statistical Comparisons <sup>b</sup>							
				UWaterloo		U15		ON Universities		U6		UWaterloo	U15	ON Universities		U6			
				Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size <sup>e</sup>	Mean	Effect size <sup>e</sup>	Mean	Effect size <sup>e</sup>	
<b>1. During the current school year, about how often have you done the following?</b>																			
a. Asked questions or contributed to course discussions in other ways	askquest	1	Never	274	13	2,348	9	1,861	8	886	8	<b>2.4</b>	2.6 ***	-0.20	2.7 ***	-0.29	2.6 ***	-0.25	
		2	Sometimes	1,022	47	11,123	43	10,226	40	4,690	41								
		3	Often	565	26	7,049	28	7,287	29	3,122	28								
		4	Very often	311	14	5,119	20	5,716	23	2,382	22								
		Total		2,172	100	25,639	100	25,090	100	11,080	100								
b. Come to class without completing readings or assignments	unpreparedr <i>(Reverse-coded version of unprepared created by NSSE.)</i>	1	Very often	308	14	2,993	12	2,891	12	1,399	13	<b>2.6</b>	2.7 ***	-0.12	2.7 ***	-0.13	2.6 **	-0.07	
		2	Often	582	27	6,064	24	5,907	24	2,746	25								
		3	Sometimes	1,011	46	12,706	49	12,461	49	5,484	49								
		4	Never	272	12	3,817	15	3,775	15	1,430	13								
		Total		2,173	100	25,580	100	25,034	100	11,059	100								
c. Attended an art exhibit, play, or other arts performance (dance, music, etc.)	attendart	1	Never	1,169	54	13,384	52	14,332	57	5,760	53	<b>1.6</b>	1.7 ***	-0.08	1.6	.00	1.7 ***	-0.07	
		2	Sometimes	749	34	8,651	34	7,447	30	3,707	33								
		3	Often	189	9	2,417	9	2,148	9	1,054	9								
		4	Very often	56	3	1,067	4	1,040	4	502	5								
		Total		2,163	100	25,519	100	24,967	100	11,023	100								
d. Asked another student to help you understand course material	CLaskhelp	1	Never	214	10	3,078	12	2,962	12	1,335	12	<b>2.6</b>	2.5 ***	.08	2.5 ***	.09	2.5 **	.08	
		2	Sometimes	880	40	10,765	42	10,674	43	4,618	42								
		3	Often	687	32	7,657	30	7,431	30	3,259	29								
		4	Very often	382	18	3,996	16	3,908	16	1,805	17								
		Total		2,163	100	25,496	100	24,975	100	11,017	100								
e. Explained course material to one or more students	CLexplain	1	Never	106	5	1,410	5	1,232	5	581	5	<b>2.7</b>	2.7	-0.01	2.7 **	-0.06	2.7	-0.04	
		2	Sometimes	838	38	9,617	37	9,063	36	4,078	36								
		3	Often	837	39	9,770	38	9,647	39	4,233	39								
		4	Very often	376	18	4,680	19	5,005	20	2,116	20								
		Total		2,157	100	25,477	100	24,947	100	11,008	100								
f. Prepared for exams by discussing or working through course material with other students	CLstudy	1	Never	285	13	3,953	15	3,835	16	1,700	15	<b>2.6</b>	2.5	.03	2.6	.02	2.5	.03	
		2	Sometimes	763	35	8,896	35	8,565	34	3,897	35								
		3	Often	724	34	7,509	29	7,441	30	3,193	29								
		4	Very often	384	18	5,014	20	5,025	20	2,173	20								
		Total		2,156	100	25,372	100	24,866	100	10,963	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 2020 Frequencies and Statistical Comparisons

## University of Waterloo

### Seniors

				Frequency Distributions <sup>a</sup>								Statistical Comparisons <sup>b</sup>							
				UWaterloo		U15		ON Universities		U6		Your 4th-year students compared with							
Item wording or description	Variable name <sup>c</sup>	Values <sup>d</sup>	Response options	Count	%	Count	%	Count	%	Count	%	UWaterloo	U15	ON Universities	U6	Effect size <sup>e</sup>	Effect size <sup>e</sup>	Effect size <sup>e</sup>	Effect size <sup>e</sup>
												Mean	Mean	Effect size <sup>e</sup>	Mean	Effect size <sup>e</sup>	Mean	Effect size <sup>e</sup>	
g. Worked with other students on course projects or assignments	CLproject	1	Never	117	6	1,612	6	1,520	6	720	7	2.9	2.9	-0.04	2.9	-0.03	2.9	.01	
		2	Sometimes	617	29	6,981	27	6,772	27	3,181	29								
		3	Often	796	37	8,708	34	8,835	36	3,782	35								
		4	Very often	622	29	8,000	32	7,651	31	3,243	30								
		Total		2,152	100	25,301	100	24,778	100	10,926	100								
h. Given a course presentation	present	1	Never	264	13	2,736	11	2,200	9	1,047	10	2.5	2.6 ***	-0.12	2.7 ***	-0.23	2.6 ***	-0.15	
		2	Sometimes	876	41	9,638	38	8,670	35	4,210	38								
		3	Often	643	29	7,805	31	7,999	32	3,429	31								
		4	Very often	365	16	5,086	20	5,926	24	2,230	21								
		Total		2,148	100	25,265	100	24,795	100	10,916	100								
<b>2. During the current school year, about how often have you done the following?</b>																			
a. Combined ideas from different courses when completing assignments	RIintegrate	1	Never	116	6	925	4	842	4	388	4	2.7	2.9 ***	-0.21	2.9 ***	-0.25	2.9 ***	-0.21	
		2	Sometimes	811	38	7,551	31	7,103	29	3,259	30								
		3	Often	832	39	10,751	42	10,526	42	4,659	43								
		4	Very often	381	18	5,916	23	6,183	25	2,555	23								
		Total		2,140	100	25,143	100	24,654	100	10,861	100								
b. Connected your learning to societal problems or issues	RIsocietal	1	Never	314	16	1,993	9	1,918	8	900	9	2.4	2.7 ***	-0.32	2.7 ***	-0.36	2.7 ***	-0.32	
		2	Sometimes	898	43	8,526	35	8,047	34	3,631	35								
		3	Often	618	29	9,138	36	8,883	36	3,901	35								
		4	Very often	295	13	5,343	21	5,697	22	2,373	21								
		Total		2,125	100	25,000	100	24,545	100	10,805	100								
c. Included diverse perspectives (political, religious, racial/ethnic, gender, etc.) in course discussions or assignments	RIdiverse	1	Never	568	28	4,660	20	3,967	18	1,862	19	2.1	2.4 ***	-0.26	2.5 ***	-0.36	2.4 ***	-0.30	
		2	Sometimes	862	41	9,151	37	8,362	35	3,791	36								
		3	Often	479	22	6,847	27	7,219	29	3,082	28								
		4	Very often	222	10	4,164	16	4,851	19	1,984	17								
		Total		2,131	100	24,822	100	24,399	100	10,719	100								
d. Examined the strengths and weaknesses of your own views on a topic or issue	RIownview	1	Never	172	8	1,675	7	1,475	6	698	7	2.6	2.7 ***	-0.15	2.7 ***	-0.21	2.7 ***	-0.17	
		2	Sometimes	827	39	8,461	35	7,991	33	3,604	34								
		3	Often	864	41	10,343	42	10,339	43	4,498	42								
		4	Very often	250	12	4,121	17	4,436	18	1,841	17								
		Total		2,113	100	24,600	100	24,241	100	10,641	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 2020 Frequencies and Statistical Comparisons

## University of Waterloo

### Seniors

#### Frequency Distributions<sup>a</sup>

#### Statistical Comparisons<sup>b</sup>

*Your 4th-year students compared with*

Item wording or description	Variable name <sup>c</sup>	Values <sup>d</sup>	Response options	Frequency Distributions <sup>a</sup>								Statistical Comparisons <sup>b</sup>							
				UWaterloo		U15		ON Universities		U6		UWaterloo	U15		ON Universities		U6		
				Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size <sup>e</sup>	Mean	Effect size <sup>e</sup>	Mean	Effect size <sup>e</sup>	
e. Tried to better understand someone else's views by imagining how an issue looks from their perspective	Rlperspect	1	Never	104	5	1,072	5	868	4	420	4	<b>2.7</b>	2.8 ***	-0.13	2.9 ***	-0.19	2.9 ***	-0.17	
		2	Sometimes	692	33	6,730	28	6,320	27	2,808	27								
		3	Often	931	44	11,189	46	11,096	46	4,902	46								
		4	Very often	369	17	5,332	22	5,713	24	2,390	23								
		Total		2,096	100	24,323	100	23,997	100	10,520	100								
f. Learned something that changed the way you understand an issue or concept	Rlnewview	1	Never	51	3	458	2	461	2	204	2	<b>2.8</b>	2.9 ***	-0.17	2.9 ***	-0.19	2.9 ***	-0.19	
		2	Sometimes	677	33	6,262	26	6,065	26	2,608	26								
		3	Often	978	47	11,588	48	11,269	47	5,004	48								
		4	Very often	380	18	5,794	24	5,974	25	2,600	25								
		Total		2,086	100	24,102	100	23,769	100	10,416	100								
g. Connected ideas from your courses to your prior experiences and knowledge	Rlconnect	1	Never	26	1	298	1	316	1	139	1	<b>3.0</b>	3.1 ***	-0.13	3.1 ***	-0.15	3.1 ***	-0.13	
		2	Sometimes	491	24	4,459	19	4,229	18	1,940	19								
		3	Often	1,029	50	12,007	50	11,670	49	5,161	49								
		4	Very often	527	25	7,155	30	7,400	31	3,111	30								
		Total		2,073	100	23,919	100	23,615	100	10,351	100								
<b>3. During the current school year, about how often have you done the following?</b>																			
a. Talked about career plans with a faculty member	SFcareer	1	Never	774	38	8,316	35	7,631	33	3,588	34	<b>1.9</b>	2.0 **	-0.07	2.0 ***	-0.13	2.0 ***	-0.08	
		2	Sometimes	825	40	9,815	41	9,626	41	4,233	41								
		3	Often	352	17	3,836	16	4,052	17	1,664	16								
		4	Very often	128	6	1,969	8	2,301	10	866	9								
		Total		2,079	100	23,936	100	23,610	100	10,351	100								
b. Worked with a faculty member on activities other than coursework (committees, student groups, etc.)	SFotherwork	1	Never	1,075	52	13,280	55	12,781	54	5,673	54	<b>1.7</b>	1.7	.03	1.7	.01	1.7	.02	
		2	Sometimes	596	29	6,243	27	6,207	27	2,708	27								
		3	Often	293	14	2,790	12	2,918	12	1,273	13								
		4	Very often	111	5	1,519	7	1,626	7	647	6								
		Total		2,075	100	23,832	100	23,532	100	10,301	100								
c. Discussed course topics, ideas, or concepts with a faculty member outside of class	SFdiscuss	1	Never	701	33	8,127	34	7,790	33	3,365	33	<b>2.0</b>	2.0	-0.01	2.0	-0.04	2.0	-0.05	
		2	Sometimes	877	42	9,966	42	9,699	41	4,293	42								
		3	Often	381	18	4,067	17	4,167	18	1,842	18								
		4	Very often	116	6	1,545	7	1,730	8	735	7								
		Total		2,075	100	23,705	100	23,386	100	10,235	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 2020 Frequencies and Statistical Comparisons

## University of Waterloo

### Seniors

				Frequency Distributions <sup>a</sup>								Statistical Comparisons <sup>b</sup>									
				UWaterloo		U15		ON Universities		U6		<i>Your 4th-year students compared with</i>									
Item wording or description	Variable name <sup>c</sup>	Values <sup>d</sup>	Response options	Count	%	Count	%	Count	%	Count	%	UWaterloo	U15	ON Universities	U6	Effect size <sup>e</sup>	Effect size <sup>e</sup>	Effect size <sup>e</sup>	Effect size <sup>e</sup>		
												Mean	Mean	Mean	Mean	Mean	Mean	Effect size <sup>e</sup>	Effect size <sup>e</sup>	Effect size <sup>e</sup>	Effect size <sup>e</sup>
d. Discussed your academic performance with a faculty member	SFperform	1	Never	942	45	10,518	44	8,847	38	4,294	42	<b>1.8</b>	1.8	-0.02	1.9 ***	-0.15	1.8 **	-0.08	▽	▽	
		2	Sometimes	784	38	9,259	39	9,663	41	4,082	40										
		3	Often	268	13	2,919	12	3,577	15	1,372	13										
		4	Very often	75	4	1,028	4	1,339	6	505	5										
		Total		2,069	100	23,724	100	23,426	100	10,253	100										
<b>4. During the current school year, how much has your coursework emphasized the following?</b>																					
a. Memorizing course material	memorize	1	Very little	130	6	1,241	6	1,414	6	534	6	<b>2.8</b>	2.9 ***	-0.14	2.9 ***	-0.11	2.9 ***	-0.14	▽	▽	
		2	Some	622	31	5,825	26	5,920	26	2,532	26										
		3	Quite a bit	816	39	9,353	40	9,223	40	4,013	39										
		4	Very much	501	24	7,185	29	6,730	28	3,114	29										
		Total		2,069	100	23,604	100	23,287	100	10,193	100										
b. Applying facts, theories, or methods to practical problems or new situations	HOapply	1	Very little	44	2	894	4	844	4	366	4	<b>3.0</b>	3.0 *	.05	3.0	.03	3.0	.04	△		
		2	Some	482	24	5,535	23	5,442	23	2,402	24										
		3	Quite a bit	965	46	10,828	46	10,425	45	4,622	45										
		4	Very much	571	28	6,249	27	6,501	28	2,757	27										
		Total		2,062	100	23,506	100	23,212	100	10,147	100										
c. Analyzing an idea, experience, or line of reasoning in depth by examining its parts	HOanalyze	1	Very little	72	4	1,128	5	1,104	5	475	5	<b>2.9</b>	2.9	.01	2.9	-0.02	2.9	-0.03			
		2	Some	566	28	6,139	26	5,978	26	2,549	25										
		3	Quite a bit	926	45	10,214	44	9,840	43	4,345	43										
		4	Very much	492	24	5,825	25	6,094	26	2,684	27										
		Total		2,056	100	23,306	100	23,016	100	10,053	100										
d. Evaluating a point of view, decision, or information source	HOevaluate	1	Very little	206	11	1,924	9	1,632	8	803	9	<b>2.6</b>	2.7 ***	-0.12	2.8 ***	-0.18	2.8 ***	-0.15	▽	▽	
		2	Some	651	32	6,603	29	6,257	28	2,736	28										
		3	Quite a bit	826	40	9,656	41	9,600	41	4,126	40										
		4	Very much	361	17	5,024	21	5,439	23	2,353	23										
		Total		2,044	100	23,207	100	22,928	100	10,018	100										
e. Forming a new idea or understanding from various pieces of information	HOform	1	Very little	133	7	1,476	7	1,353	6	648	7	<b>2.7</b>	2.8 *	-0.06	2.8 ***	-0.11	2.8 ***	-0.08	▽	▽	
		2	Some	657	33	6,788	30	6,318	28	2,797	28										
		3	Quite a bit	872	42	10,172	44	10,103	44	4,379	44										
		4	Very much	380	18	4,669	20	5,065	22	2,154	21										
		Total		2,042	100	23,105	100	22,839	100	9,978	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 2020 Frequencies and Statistical Comparisons

## University of Waterloo

### Seniors

				Frequency Distributions <sup>a</sup>								Statistical Comparisons <sup>b</sup>							
				UWaterloo		U15		ON Universities		U6		Your 4th-year students compared with							
Item wording or description	Variable name <sup>c</sup>	Values <sup>d</sup>	Response options	Count	%	Count	%	Count	%	Count	%	UWaterloo	U15	ON Universities	U6	Effect size <sup>e</sup>	Effect size <sup>e</sup>	Effect size <sup>e</sup>	Effect size <sup>e</sup>
												Mean	Mean	Mean	Mean	Mean	Mean	Mean	
<b>5. During the current school year, to what extent have your instructors done the following?</b>																			
a. Clearly explained course goals and requirements	ETgoals	1	Very little	35	2	624	3	724	3	266	3	2.9	3.0	-.03	2.9	.00	2.9	.01	
		2	Some	500	25	5,148	23	5,480	24	2,359	24								
		3	Quite a bit	1,036	51	11,380	49	10,801	47	4,918	49								
		4	Very much	473	23	5,827	25	5,741	25	2,382	24								
		Total		2,044	100	22,979	100	22,746	100	9,925	100								
b. Taught course sessions in an organized way	ETorganize	1	Very little	67	3	896	4	1,056	5	403	4	2.9	2.9	-.04	2.9	-.01	2.9	-.02	
		2	Some	537	26	5,286	23	5,729	25	2,377	24								
		3	Quite a bit	1,032	51	11,855	51	10,982	48	5,045	50								
		4	Very much	398	20	4,903	21	4,919	22	2,086	21								
		Total		2,034	100	22,940	100	22,686	100	9,911	100								
c. Used examples or illustrations to explain difficult points	ETexample	1	Very little	47	2	735	3	943	4	359	4	2.9	3.0	-.04	2.9	.02	2.9	.00	
		2	Some	509	25	5,159	23	5,731	25	2,380	24								
		3	Quite a bit	1,005	50	11,112	48	10,321	46	4,691	47								
		4	Very much	468	23	5,871	26	5,642	25	2,451	25								
		Total		2,029	100	22,877	100	22,637	100	9,881	100								
d. Provided feedback on a draft or work in progress	ETdraftfb	1	Very little	387	19	4,193	19	3,856	17	1,731	18	2.3	2.4 **	-.06	2.4 ***	-.12	2.4 ***	-.09	
		2	Some	812	40	8,717	38	8,292	37	3,730	38								
		3	Quite a bit	611	30	7,000	30	7,183	32	3,102	31								
		4	Very much	215	11	2,948	13	3,295	15	1,301	13								
		Total		2,025	100	22,858	100	22,626	100	9,864	100								
e. Provided prompt and detailed feedback on tests or completed assignments	ETfeedback	1	Very little	208	10	3,115	14	3,014	13	1,392	14	2.5	2.5 **	.06	2.5	.03	2.5 **	.07	
		2	Some	833	41	9,034	39	8,770	38	3,932	39								
		3	Quite a bit	749	37	7,967	35	7,865	35	3,351	34								
		4	Very much	245	12	2,709	12	2,968	13	1,186	12								
		Total		2,035	100	22,825	100	22,617	100	9,861	100								

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# NSSE 2020 Frequencies and Statistical Comparisons

## University of Waterloo

### Seniors

#### Frequency Distributions<sup>a</sup>

#### Statistical Comparisons<sup>b</sup>

*Your 4th-year students compared with*

Item wording or description	Variable name <sup>c</sup>	Values <sup>d</sup>	Response options	UWaterloo				U15				ON Universities				U6				UWaterloo		U15		ON Universities		U6				
				Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Mean	Effect size <sup>e</sup>	Mean	Effect size <sup>e</sup>	Mean	Effect size <sup>e</sup>	Mean	Effect size <sup>e</sup>	
<b>6. During the current school year, about how often have you done the following?</b>																														
a. Reached conclusions based on your own analysis of numerical information (numbers, graphs, statistics, etc.)	QRconclude	1	Never	184	9	3,554	15	3,572	15	1,495	14	<b>2.6</b>	2.5 ***	.16	2.5 ***	.16	2.5 ***	.13	△	△	△	△	△	△	△	△	△	△	△	
		2	Sometimes	709	35	8,217	36	8,153	36	3,470	35																			
		3	Often	801	40	7,564	34	7,450	34	3,301	34																			
		4	Very often	330	17	3,256	15	3,218	15	1,482	16																			
		Total		2,024	100	22,591	100	22,393	100	9,748	100																			
b. Used numerical information to examine a real-world problem or issue (unemployment, climate change, public health, etc.)	QRproblem	1	Never	423	21	5,412	24	5,189	23	2,314	23	<b>2.3</b>	2.3 **	.07	2.3	.04	2.3 *	.05	△	△	△	△	△	△	△	△	△	△	△	△
		2	Sometimes	774	38	8,746	38	8,620	38	3,670	38																			
		3	Often	584	29	5,954	27	6,061	28	2,644	27																			
		4	Very often	234	12	2,388	11	2,446	12	1,081	12																			
		Total		2,015	100	22,500	100	22,316	100	9,709	100																			
c. Evaluated what others have concluded from numerical information	QRevaluate	1	Never	304	15	4,365	19	4,224	18	1,750	17	<b>2.4</b>	2.4 *	.05	2.4	.04	2.4	.00	△	△	△	△	△	△	△	△	△	△	△	△
		2	Sometimes	834	41	8,785	39	8,721	39	3,694	38																			
		3	Often	664	33	6,820	31	6,778	31	3,033	32																			
		4	Very often	214	11	2,452	11	2,519	12	1,199	13																			
		Total		2,016	100	22,422	100	22,242	100	9,676	100																			
<b>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.)</b>																														
a. Up to 5 pages	wrshortnum <i>(Recoded version of wrshort created by NSSE. Values are estimated number of papers, reports, etc.)</i>	0	None	132	7	1,321	6	962	5	457	5	<b>7.4</b>	7.4	.01	7.9 **	-.07	7.9 **	-.07	▽	▽	▽	▽	▽	▽	▽	▽	▽	▽	▽	▽
		1.5	1-2	326	17	3,763	17	3,340	15	1,411	15																			
		4	3-5	562	28	6,512	29	6,369	29	2,734	29																			
		8	6-10	476	24	5,286	24	5,536	25	2,421	25																			
		13	11-15	247	12	2,609	12	2,796	13	1,254	13																			
		18	16-20	113	6	1,148	5	1,329	6	572	6																			
		23	More than 20	143	7	1,575	7	1,753	8	755	8																			
		Total		1,999	100	22,214	100	22,085	100	9,604	100																			
b. Between 6 and 10 pages	wrmednum <i>(Recoded version of wrmed created by NSSE. Values are estimated number of papers, reports, etc.)</i>	0	None	347	18	3,337	16	2,565	12	1,190	14	<b>4.9</b>	4.4 ***	.09	5.0	-.02	4.8	.02	△	△	△	△	△	△	△	△	△	△		
		1.5	1-2	508	26	6,551	30	5,897	27	2,648	28																			
		4	3-5	553	27	6,502	29	6,833	31	2,940	30																			
		8	6-10	301	15	3,510	15	4,046	18	1,686	17																			
		13	11-15	160	8	1,324	6	1,551	7	651	7																			
		18	16-20	53	3	457	2	554	2	232	2																			
		23	More than 20	60	3	468	2	574	3	231	2																			
Total		1,982	100	22,149	100	22,020	100	9,578	100																					

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# NSSE 2020 Frequencies and Statistical Comparisons

## University of Waterloo

### Seniors

#### Frequency Distributions<sup>a</sup>

#### Statistical Comparisons<sup>b</sup>

*Your 4th-year students compared with*

Item wording or description	Variable name <sup>c</sup>	Values <sup>d</sup>	Response options	Frequency Distributions <sup>a</sup>								Statistical Comparisons <sup>b</sup>						
				UWaterloo		U15		ON Universities		U6		UWaterloo	U15	ON Universities	U6	Effect size <sup>e</sup>	Effect size <sup>e</sup>	Effect size <sup>e</sup>
				Count	%	Count	%	Count	%	Count	%	Mean	Mean	Mean	Mean	Mean	Mean	
c. 11 pages or more	wrlongnum	0	None	600	30	7,092	32	6,498	30	2,933	32	<b>3.3</b>	2.9 ** △	.07	3.2	.01	3.1	.03
	(Recorded version of wrlong created by NSSE. Values are estimated number of papers, reports, etc.)	1.5	1-2	693	34	8,206	37	8,145	37	3,490	36							
		4	3-5	372	19	3,893	17	4,018	18	1,735	18							
		8	6-10	177	9	1,516	7	1,710	8	721	7							
		13	11-15	85	4	794	4	900	4	368	4							
		18	16-20	16	1	289	1	344	2	141	1							
		23	More than 20	48	2	442	2	486	2	212	2							
	Total			1,991	100	22,232	100	22,101	100	9,600	100							
Estimated number of assigned pages of student writing.	wrpages		(Continuous variable, recoded and summed by NSSE from wrshort, wrmed, and wrlong. Values are estimated pages of assigned writing.)									<b>109.7</b>	101.2 ** △	.08	111.1	-.01	107.7	.02
<b>8. During the current school year, about how often have you had discussions with people from the following groups?</b>																		
a. People of a race or ethnicity other than your own	DDrace	1	Never	76	4	907	4	891	4	360	4	<b>3.2</b>	3.1	.03	3.2	-.01	3.2	-.03
		2	Sometimes	405	20	4,754	21	4,350	20	1,793	19							
		3	Often	599	30	6,880	30	6,835	31	2,966	31							
		4	Very often	923	46	9,749	44	10,054	46	4,495	47							
		Total		2,003	100	22,290	100	22,130	100	9,614	100							
b. People from an economic background other than your own	DDeconomic	1	Never	77	4	1,047	5	1,019	5	431	5	<b>3.0</b>	3.0	.00	3.0 **	-.06	3.0 *	-.05
		2	Sometimes	560	28	6,078	27	5,419	25	2,417	25							
		3	Often	713	36	7,877	35	7,774	35	3,337	35							
		4	Very often	643	32	7,210	33	7,846	36	3,392	36							
		Total		1,993	100	22,212	100	22,058	100	9,577	100							
c. People with religious beliefs other than your own	DDreligion	1	Never	96	5	1,365	6	1,172	5	482	5	<b>3.0</b>	3.0 ** △	.06	3.0	-.03	3.0	-.02
		2	Sometimes	497	25	5,998	27	5,225	24	2,320	24							
		3	Often	667	33	7,231	32	7,289	33	3,173	33							
		4	Very often	730	37	7,622	35	8,394	38	3,615	38							
		Total		1,990	100	22,216	100	22,080	100	9,590	100							
d. People with political views other than your own	DDpolitical	1	Never	138	7	1,509	7	1,583	7	683	7	<b>2.7</b>	2.8 ** ▽	-.07	2.8 ***	-.10	2.8 **	-.07
		2	Sometimes	788	39	7,990	36	7,672	34	3,512	37							
		3	Often	614	31	7,122	32	6,871	31	2,915	30							
		4	Very often	444	23	5,609	25	5,955	27	2,473	26							
		Total		1,984	100	22,230	100	22,081	100	9,583	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 2020 Frequencies and Statistical Comparisons

## University of Waterloo

### Seniors

				Frequency Distributions <sup>a</sup>								Statistical Comparisons <sup>b</sup>							
				UWaterloo		U15		ON Universities		U6		UWaterloo		U15		ON Universities		U6	
Item wording or description	Variable name <sup>c</sup>	Values <sup>d</sup>	Response options	Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size <sup>e</sup>	Mean	Effect size <sup>e</sup>	Mean	Effect size <sup>e</sup>	
<b>9. During the current school year, about how often have you done the following?</b>																			
a. Identified key information from reading assignments	LSreading	1	Never	86	5	795	4	712	4	329	4	<b>2.9</b>	3.0 ***	-0.13	3.0 ***	-0.14	3.0 ***	-0.14	
		2	Sometimes	559	29	5,193	24	5,175	24	2,214	24								
		3	Often	874	43	9,732	44	9,775	44	4,176	44								
		4	Very often	480	24	6,429	28	6,307	28	2,824	29								
		Total		1,999	100	22,149	100	21,969	100	9,543	100								
b. Reviewed your notes after class	LSnotes	1	Never	261	13	2,754	13	2,838	13	1,295	14	<b>2.5</b>	2.6 ***	-0.09	2.5 *	-0.06	2.5	-0.05	
		2	Sometimes	858	43	8,528	39	8,704	40	3,747	40								
		3	Often	550	27	6,352	28	6,293	28	2,666	28								
		4	Very often	326	16	4,499	20	4,137	18	1,840	19								
		Total		1,995	100	22,133	100	21,972	100	9,548	100								
c. Summarized what you learned in class or from course materials	LSsummary	1	Never	207	11	2,121	10	2,212	10	964	10	<b>2.6</b>	2.7 ***	-0.11	2.7 **	-0.07	2.7 ***	-0.08	
		2	Sometimes	744	37	7,307	33	7,620	35	3,227	34								
		3	Often	676	34	7,621	34	7,576	34	3,254	34								
		4	Very often	365	18	5,079	22	4,571	20	2,099	21								
		Total		1,992	100	22,128	100	21,979	100	9,544	100								
<b>10. During the current school year, to what extent have your courses challenged you to do your best work?</b>																			
challenge		1	Not at all	27	1	246	1	256	1	102	1	<b>5.1</b>	5.2 ***	-0.09	5.2 ***	-0.09	5.2 ***	-0.09	
		2		33	2	388	2	392	2	160	2								
		3		152	8	1,169	5	1,205	6	502	6								
		4		268	14	2,998	14	2,980	14	1,282	13								
		5		729	36	7,877	36	7,743	35	3,441	36								
		6		508	25	5,475	25	5,392	24	2,381	25								
		7	Very much	275	14	3,912	17	3,934	18	1,646	17								
		Total		1,992	100	22,065	100	21,902	100	9,514	100								
<b>11. Which of the following have you done or do you plan to do before you graduate?<sup>f</sup></b>																			
a. Participate in an internship, co-op, field experience, student teaching, or clinical placement	intern	Have not decided		102	5	2,402	10	2,591	12	1,119	11	<b>71%</b>	50% ***	.44	46% ***	.53	47% ***	.50	
		Do not plan to do		246	12	5,487	25	5,815	27	2,568	27								
		Plan to do		228	11	3,390	15	3,490	16	1,447	15								
		Done or in progress		1,411	71	10,747	50	9,971	46	4,364	47								
		Total		1,987	100	22,026	100	21,867	100	9,498	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 2020 Frequencies and Statistical Comparisons

## University of Waterloo

### Seniors

				Frequency Distributions <sup>a</sup>								Statistical Comparisons <sup>b</sup>							
				UWaterloo		U15		ON Universities		U6		<i>Your 4th-year students compared with</i>							
Item wording or description	Variable name <sup>c</sup>	Values <sup>d</sup>	Response options	Count	%	Count	%	Count	%	Count	%	UWaterloo	U15	ON Universities	U6	Effect size <sup>e</sup>	Effect size <sup>e</sup>	Effect size <sup>e</sup>	Effect size <sup>e</sup>
												Mean	Mean	Mean	Mean	Mean	Mean		
<b>13. Indicate the quality of your interactions with the following people at your institution.</b>																			
<b>a. Students</b>																			
	QIstudent	1	Poor	30	2	330	2	361	2	179	2	<b>5.4</b>							
		2		43	2	436	2	408	2	209	2								
		3		96	5	993	5	1,014	5	455	5								
		4		215	11	2,310	11	2,354	11	1,063	11								
		5		593	29	5,940	27	5,817	27	2,602	27								
		6		607	30	6,506	30	6,398	29	2,767	29								
		7	Excellent	385	20	5,164	24	5,187	24	2,105	23								
		—	Not applicable	15	1	185	1	164	1	58	1								
			Total	1,984	100	21,864	100	21,703	100	9,438	100								
<b>b. Academic advisors</b>																			
	QIadvisor	1	Poor	101	5	1,540	7	1,484	7	749	8	<b>4.7</b>							
		2		125	6	1,426	6	1,336	6	665	7								
		3		200	10	2,077	9	2,029	9	925	10								
		4		300	15	3,118	14	3,095	14	1,421	15								
		5		436	22	4,249	20	4,424	21	1,895	21								
		6		354	18	3,467	16	3,712	17	1,440	16								
		7	Excellent	295	15	2,963	14	3,324	16	1,188	13								
		—	Not applicable	167	9	3,002	13	2,281	10	1,146	12								
			Total	1,978	100	21,842	100	21,685	100	9,429	100								
<b>c. Faculty</b>																			
	QIfaculty	1	Poor	60	3	660	3	697	3	328	3	<b>5.0</b>							
		2		62	3	776	3	801	4	362	4								
		3		170	9	1,606	7	1,610	7	765	8								
		4		304	15	3,397	15	3,456	15	1,539	16								
		5		580	29	6,140	28	5,996	28	2,643	28								
		6		481	24	5,609	26	5,419	25	2,271	25								
		7	Excellent	271	14	3,270	15	3,383	16	1,355	15								
		—	Not applicable	55	3	375	2	310	1	157	2								
			Total	1,983	100	21,833	100	21,672	100	9,420	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 2020 Frequencies and Statistical Comparisons

## University of Waterloo

### Seniors

				Frequency Distributions <sup>a</sup>								Statistical Comparisons <sup>b</sup>									
				UWaterloo		U15		ON Universities		U6		Your 4th-year students compared with									
Item wording or description	Variable name <sup>c</sup>	Values <sup>d</sup>	Response options	Count	%	Count	%	Count	%	Count	%	UWaterloo	U15	ON Universities	U6	Effect size <sup>e</sup>	Effect size <sup>e</sup>	Effect size <sup>e</sup>	Effect size <sup>e</sup>		
												Mean	Mean	Mean	Mean	Mean	Mean	Effect size <sup>e</sup>	Effect size <sup>e</sup>	Effect size <sup>e</sup>	Effect size <sup>e</sup>
d. Student services staff (career services, student activities, housing, etc.)	QIstaff	1	Poor	109	6	1,330	6	1,387	6	666	7	4.5	4.5	-.03	4.6 *	-.05	4.4	.03			
		2		127	6	1,171	5	1,218	6	575	6										
		3		195	10	1,751	8	1,782	8	880	9										
		4		327	16	3,027	14	3,005	14	1,413	15										
		5		407	21	3,955	18	4,104	19	1,764	19										
		6		293	15	3,170	15	3,291	15	1,335	15										
		7	Excellent	195	10	2,204	10	2,368	11	831	9										
		—	Not applicable	325	16	5,217	23	4,500	20	1,956	20										
Total				1,978	100	21,825	100	21,655	100	9,420	100										
e. Other administrative staff and offices (registrar, financial aid, etc.)	QIadmin	1	Poor	98	5	1,331	6	1,491	7	696	7	4.7	4.6 **	.07	4.6 **	.06	4.5 ***	.11			
		2		93	5	1,358	6	1,427	6	666	7										
		3		171	9	1,955	9	2,116	9	987	10										
		4		333	17	3,279	15	3,344	15	1,539	16										
		5		479	24	4,381	20	4,700	22	1,983	21										
		6		375	19	3,678	17	3,852	18	1,607	17										
		7	Excellent	213	11	2,401	11	2,550	12	997	11										
		—	Not applicable	215	11	3,459	16	2,203	10	949	10										
Total				1,977	100	21,842	100	21,683	100	9,424	100										
<b>14. How much does your institution emphasize the following?</b>																					
a. Spending significant amounts of time studying and on academic work	empstudy	1	Very little	14	1	371	2	475	2	154	2	3.4	3.2 ***	.20	3.1 ***	.32	3.2 ***	.17			
		2	Some	229	12	3,426	16	4,121	19	1,410	15										
		3	Quite a bit	722	37	9,084	41	9,298	43	3,695	40										
		4	Very much	1,012	51	8,880	41	7,712	35	4,128	43										
		Total				1,977	100	21,761	100	21,606	100										9,387
b. Providing support to help students succeed academically	SEacademic	1	Very little	163	8	2,480	12	2,287	11	1,207	12	2.5	2.5 **	.06	2.5	-.03	2.4 ***	.09			
		2	Some	817	41	8,576	40	8,069	37	3,818	41										
		3	Quite a bit	785	40	8,406	38	8,324	39	3,426	37										
		4	Very much	209	11	2,253	10	2,867	13	910	10										
		Total				1,974	100	21,715	100	21,547	100										9,361
c. Using learning support services (tutoring services, writing center, etc.)	SElearnsup	1	Very little	277	14	3,530	17	3,245	15	1,433	16	2.4	2.4	.04	2.5 ***	-.08	2.4	.01			
		2	Some	817	42	8,780	41	7,774	36	3,763	40										
		3	Quite a bit	684	34	7,234	33	7,607	35	3,227	34										
		4	Very much	187	9	2,141	10	2,921	13	937	10										
		Total				1,965	100	21,685	100	21,547	100										9,360

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# NSSE 2020 Frequencies and Statistical Comparisons

## University of Waterloo

### Seniors

#### Frequency Distributions<sup>a</sup>

#### Statistical Comparisons<sup>b</sup>

*Your 4th-year students compared with*

Item wording or description	Variable name <sup>c</sup>	Values <sup>d</sup>	Response options	Frequency Distributions <sup>a</sup>								Statistical Comparisons <sup>b</sup>							
				UWaterloo		U15		ON Universities		U6		UWaterloo		U15		ON Universities		U6	
				Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size <sup>e</sup>	Mean	Effect size <sup>e</sup>	Mean	Effect size <sup>e</sup>	
d. Encouraging contact among students from different backgrounds (social, racial/ethnic, religious, etc.)	SEdiverse	1	Very little	538	27	6,071	28	5,479	25	2,726	28	<b>2.2</b>	2.2	-0.02	2.3 ***	-0.10	2.2	.00	
		2	Some	748	38	7,966	37	7,667	36	3,390	36								
		3	Quite a bit	491	25	5,467	25	5,727	27	2,295	25								
		4	Very much	188	10	2,175	10	2,667	13	941	10								
		Total		1,965	100	21,679	100	21,540	100	9,352	100								
e. Providing opportunities to be involved socially	SEsocial	1	Very little	309	16	3,230	15	3,126	14	1,526	16	<b>2.3</b>	2.5 ***	-0.16	2.5 ***	-0.20	2.5 ***	-0.14	
		2	Some	848	43	7,836	36	7,552	35	3,457	36								
		3	Quite a bit	635	32	7,786	36	7,650	36	3,174	35								
		4	Very much	177	9	2,804	13	3,181	15	1,185	14								
		Total		1,969	100	21,656	100	21,509	100	9,342	100								
f. Providing support for your overall well-being (recreation, health care, counseling, etc.)	SEwellness	1	Very little	351	18	4,836	22	4,517	20	2,516	25	<b>2.3</b>	2.3	.01	2.4 **	-0.06	2.2 ***	.09	
		2	Some	820	42	7,927	37	7,609	35	3,476	37								
		3	Quite a bit	632	32	6,641	31	6,685	32	2,525	28								
		4	Very much	162	8	2,258	11	2,682	13	826	9								
		Total		1,965	100	21,662	100	21,493	100	9,343	100								
g. Helping you manage your non-academic responsibilities (work, family, etc.)	SEnonacad	1	Very little	876	44	10,399	48	9,941	45	4,862	50	<b>1.8</b>	1.7 *	.05	1.8	-0.02	1.7 ***	.09	
		2	Some	728	38	7,297	34	7,179	34	2,899	32								
		3	Quite a bit	277	14	3,105	14	3,297	16	1,217	14								
		4	Very much	76	4	835	4	1,058	5	357	4								
		Total		1,957	100	21,636	100	21,475	100	9,335	100								
h. Attending campus activities and events (performing arts, athletic events, etc.)	SEactivities	1	Very little	528	27	4,741	22	4,953	23	2,235	24	<b>2.0</b>	2.2 ***	-0.22	2.2 ***	-0.22	2.2 ***	-0.16	
		2	Some	914	47	8,826	41	8,522	40	3,903	42								
		3	Quite a bit	416	21	6,240	29	6,003	28	2,469	27								
		4	Very much	98	5	1,813	8	1,977	9	712	8								
		Total		1,956	100	21,620	100	21,455	100	9,319	100								
i. Attending events that address important social, economic, or political issues	SEevents	1	Very little	630	32	5,777	27	5,903	27	2,690	29	<b>2.0</b>	2.1 ***	-0.15	2.1 ***	-0.17	2.0 ***	-0.11	
		2	Some	873	44	9,564	44	9,035	42	4,119	44								
		3	Quite a bit	374	19	5,053	23	5,004	24	2,023	22								
		4	Very much	81	4	1,234	6	1,525	7	502	6								
		Total		1,958	100	21,628	100	21,467	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 2020 Frequencies and Statistical Comparisons

## University of Waterloo

### Seniors

#### Frequency Distributions<sup>a</sup>

#### Statistical Comparisons<sup>b</sup>

*Your 4th-year students compared with*

Item wording or description	Variable name <sup>c</sup>	Values <sup>d</sup>	Response options	UWaterloo				U15				ON Universities				U6				UWaterloo		U15		ON Universities		U6							
				Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Mean	Effect size <sup>e</sup>	Mean	Effect size <sup>e</sup>	Mean	Effect size <sup>e</sup>
<b>15. To what extent do you agree or disagree with the following statements?</b>																																	
a. I feel comfortable being myself at this institution.	SBmyself	1	Strongly disagree	43	2	670	3	710	3	339	4	<b>3.2</b>	3.1	.01	3.1	.01	3.1 **	.07															
		2	Disagree	202	11	2,164	10	2,173	10	1,060	12																						
		3	Agree	1,129	56	12,047	55	11,909	54	5,280	55																						
		4	Strongly agree	600	31	6,732	32	6,689	32	2,649	29																						
		Total		1,974	100	21,613	100	21,481	100	9,328	100																						
b. I feel valued by this institution.	SBvalued	1	Strongly disagree	223	12	2,605	13	2,602	12	1,394	15	<b>2.5</b>	2.6	-.02	2.6	-.03	2.5 ***	.09															
		2	Disagree	643	32	6,672	31	6,745	31	3,229	34																						
		3	Agree	892	45	9,739	45	9,469	44	3,769	41																						
		4	Strongly agree	207	11	2,586	12	2,647	13	933	11																						
		Total		1,965	100	21,602	100	21,463	100	9,325	100																						
c. I feel like part of the community at this institution.	SBcommunity	1	Strongly disagree	163	9	2,073	10	2,122	10	1,074	11	<b>2.7</b>	2.7	.00	2.7	-.01	2.6 *	.06															
		2	Disagree	546	28	6,038	27	5,963	27	2,754	28																						
		3	Agree	1,012	51	10,480	49	10,113	47	4,275	46																						
		4	Strongly agree	250	13	3,033	15	3,291	16	1,233	14																						
		Total		1,971	100	21,624	100	21,489	100	9,336	100																						
<b>16. About how many hours do you spend in a typical 7-day week doing the following?</b>																																	
a. Preparing for class (studying, reading, writing, doing homework or lab work, analyzing data, rehearsing, and other academic activities)	tmprephrs	0	0 hrs	12	1	154	1	150	1	78	1	<b>17.6</b>	16.7 ***	.10	16.1 ***	.16	16.9 **	.07															
		3	1-5 hrs	200	10	2,573	12	2,745	13	1,027	11																						
		8	6-10 hrs	306	15	3,975	18	4,085	19	1,597	17																						
		13	11-15 hrs	340	18	3,863	18	3,984	18	1,646	18																						
		18	16-20 hrs	353	18	3,936	18	3,833	18	1,783	19																						
		23	21-25 hrs	305	15	2,723	13	2,604	12	1,223	13																						
		28	26-30 hrs	185	9	1,742	8	1,606	7	762	8																						
		33	More than 30 hrs	266	14	2,586	12	2,418	11	1,182	13																						
Total		1,967	100	21,552	100	21,425	100	9,298	100																								
b. Participating in co-curricular activities (organizations, campus publications, student government, fraternity or sorority, intercollegiate or intramural sports, etc.)	tmcocurrhrs	0	0 hrs	617	31	9,048	40	9,372	42	3,526	37	<b>5.4</b>	4.8 ***	.08	4.8 ***	.08	5.3	.01															
		3	1-5 hrs	715	36	6,533	31	6,093	29	2,907	31																						
		8	6-10 hrs	284	15	2,642	13	2,558	12	1,233	14																						
		13	11-15 hrs	153	8	1,549	8	1,565	8	765	9																						
		18	16-20 hrs	94	5	904	4	938	5	451	5																						
		23	21-25 hrs	61	3	447	2	453	2	221	3																						
		28	26-30 hrs	16	1	142	1	145	1	62	1																						
33	More than 30 hrs	8	0	235	1	252	1	119	1																								
Total		1,948	100	21,500	100	21,376	100	9,284	100																								

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# NSSE 2020 Frequencies and Statistical Comparisons

## University of Waterloo

### Seniors

#### Frequency Distributions<sup>a</sup>

#### Statistical Comparisons<sup>b</sup>

*Your 4th-year students compared with*

Item wording or description	Variable name <sup>c</sup>	Values <sup>d</sup>	Response options	Frequency Distributions <sup>a</sup>								Statistical Comparisons <sup>b</sup>						
				UWaterloo		U15		ON Universities		U6		UWaterloo	U15		ON Universities		U6	
				Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size <sup>e</sup>	Mean	Effect size <sup>e</sup>	Mean	Effect size <sup>e</sup>
c. Working for pay on campus	tmworkonhrs	0	0 hrs	1,474	75	16,972	78	16,565	77	7,065	76	<b>2.8</b>	2.5 *	.06	2.6	.04	2.7	.02
	(Recorded version of tmworkon created by NSSE. Values are estimated number of hours per week.)	3	1-5 hrs	140	7	1,129	5	1,109	5	525	6							
	8	6-10 hrs	128	6	1,374	7	1,473	7	702	7								
	13	11-15 hrs	82	4	973	5	1,063	5	499	5								
	18	16-20 hrs	63	3	520	3	579	3	236	3								
	23	21-25 hrs	44	2	286	1	331	2	136	2								
	28	26-30 hrs	11	1	92	0	102	0	54	1								
	33	More than 30 hrs	16	1	165	1	148	1	66	1								
	Total				1,958	100	21,511	100	21,370	100	9,283							
d. Working for pay off campus	tmworkoffhrs	0	0 hrs	1,433	73	9,912	49	9,542	47	4,669	53	<b>3.8</b>	7.9 ***	-.42	8.9 ***	-.49	7.4 ***	-.38
	(Recorded version of tmworkoff created by NSSE. Values are estimated number of hours per week.)	3	1-5 hrs	87	4	1,501	7	1,365	6	575	6							
	8	6-10 hrs	109	5	2,319	10	2,031	9	876	9								
	13	11-15 hrs	115	6	2,464	11	2,293	10	1,007	10								
	18	16-20 hrs	106	5	2,349	10	2,460	11	911	9								
	23	21-25 hrs	67	3	1,258	5	1,583	7	553	6								
	28	26-30 hrs	15	1	584	2	729	3	238	2								
	33	More than 30 hrs	28	1	1,142	5	1,387	7	461	5								
	Total				1,960	100	21,529	100	21,390	100	9,290							
Estimated number of hours working for pay	tmworkhrs		(Continuous variable created by NSSE)									<b>6.5</b>	10.3 ***	-.33	11.5 ***	-.41	10.1 ***	-.31
e. Doing community service or volunteer work	tmservicehrs	0	0 hrs	1,226	63	11,622	55	11,458	55	4,929	54	<b>2.9</b>	3.0	-.01	3.3 **	-.07	3.3 *	-.06
	(Recorded version of tmservice created by NSSE. Values are estimated number of hours per week.)	3	1-5 hrs	409	20	6,161	28	5,716	26	2,589	27							
	8	6-10 hrs	140	7	1,944	9	2,058	9	889	9								
	13	11-15 hrs	81	4	887	4	973	4	407	4								
	18	16-20 hrs	52	3	475	2	588	3	252	3								
	23	21-25 hrs	41	2	236	1	309	1	115	1								
	28	26-30 hrs	6	0	67	0	87	0	35	0								
	33	More than 30 hrs	10	1	130	1	180	1	73	1								
	Total				1,965	100	21,522	100	21,369	100	9,289							

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# NSSE 2020 Frequencies and Statistical Comparisons

## University of Waterloo

### Seniors

#### Frequency Distributions<sup>a</sup>

#### Statistical Comparisons<sup>b</sup>

*Your 4th-year students compared with*

Item wording or description	Variable name <sup>c</sup>	Values <sup>d</sup>	Response options	Frequency Distributions <sup>a</sup>								Statistical Comparisons <sup>b</sup>						
				UWaterloo		U15		ON Universities		U6		UWaterloo	U15	ON Universities	U6	Effect size <sup>e</sup>	Effect size <sup>e</sup>	Effect size <sup>e</sup>
				Count	%	Count	%	Count	%	Count	%	Mean	Mean	Mean	Mean	Mean	Mean	
f. Relaxing and socializing (time with friends, video games, TV or videos, keeping up with friends online, etc.)	tmrelaxhrs <i>(Recorded version of tmrelax created by NSSE. Values are estimated number of hours per week.)</i>	0	0 hrs	27	1	366	2	386	2	142	2	<b>14.2</b>	12.5 *** △	.20	12.7 *** △	.17	12.9 *** △	.15
		3	1-5 hrs	275	13	4,283	19	4,237	19	1,743	18							
		8	6-10 hrs	477	24	6,068	28	5,911	27	2,579	27							
		13	11-15 hrs	463	24	4,703	22	4,535	21	2,016	22							
		18	16-20 hrs	335	17	3,007	14	3,064	15	1,377	15							
		23	21-25 hrs	163	9	1,343	7	1,381	7	611	7							
		28	26-30 hrs	81	4	548	3	569	3	246	3							
		33	More than 30 hrs	137	7	1,180	6	1,287	7	568	7							
			Total			1,958	100	21,498	100	21,370	100							
g. Providing care for dependents (children, parents, etc.)	tmcarehrs <i>(Recorded version of tmcare created by NSSE. Values are estimated number of hours per week.)</i>	0	0 hrs	1,541	79	15,493	73	14,330	68	6,624	72	<b>2.3</b>	2.8 *** ▽	-.07	3.5 *** ▽	-.16	2.8 *** ▽	-.08
		3	1-5 hrs	166	8	2,717	12	2,996	14	1,170	12							
		8	6-10 hrs	86	4	1,116	5	1,370	6	526	6							
		13	11-15 hrs	54	3	757	3	890	4	371	4							
		18	16-20 hrs	49	3	460	2	594	3	231	3							
		23	21-25 hrs	39	2	245	1	318	2	117	1							
		28	26-30 hrs	10	1	113	0	144	1	50	1							
		33	More than 30 hrs	14	1	559	2	690	3	163	2							
			Total			1,959	100	21,460	100	21,332	100							
h. Commuting to campus (driving, walking, etc.)	tmcommutehrs <i>(Recorded version of tmcommute created by NSSE. Values are estimated number of hours per week.)</i>	0	0 hrs	111	6	1,244	6	1,465	7	582	6	<b>5.8</b>	7.2 *** ▽	-.23	7.4 *** ▽	-.25	7.3 *** ▽	-.24
		3	1-5 hrs	1,194	61	9,587	45	9,432	45	4,152	46							
		8	6-10 hrs	395	20	5,907	27	5,345	25	2,324	25							
		13	11-15 hrs	138	7	2,882	13	2,854	13	1,297	13							
		18	16-20 hrs	62	3	1,017	5	1,225	6	501	5							
		23	21-25 hrs	37	2	402	2	459	2	192	2							
		28	26-30 hrs	13	1	144	1	184	1	74	1							
		33	More than 30 hrs	10	0	341	2	426	2	163	2							
			Total			1,960	100	21,524	100	21,390	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 2020 Frequencies and Statistical Comparisons

## University of Waterloo

### Seniors

				Frequency Distributions <sup>a</sup>								Statistical Comparisons <sup>b</sup>												
				UWaterloo		U15		ON Universities		U6		Your 4th-year students compared with												
Item wording or description	Variable name <sup>c</sup>	Values <sup>d</sup>	Response options	Count	%	Count	%	Count	%	Count	%	UWaterloo	U15	ON Universities	U6	Effect size <sup>e</sup>	Effect size <sup>e</sup>	Effect size <sup>e</sup>						
												Mean	Mean	Mean	Mean	Mean	Mean							
<b>17. Of the time you spend preparing for class in a typical 7-day week, about how much is on assigned reading?</b>																								
	reading	1	Very little	507	27	4,104	20	4,058	20	1,800	21	<b>2.4</b>	2.7 ***	-0.24	2.7 ***	-0.25	2.7 ***	-0.25						
		2	Some	656	34	6,269	29	6,084	29	2,578	28								▽					
		3	About half	397	20	4,726	21	4,824	22	2,060	21								▽					
		4	Most	266	13	4,319	20	4,245	19	1,874	19								▽					
		5	Almost all	129	6	2,068	9	2,132	10	956	10								▽					
		Total		1,955	100	21,486	100	21,343	100	9,268	100													
	tmreadinghrs	<i>(Continuous variable created by NSSE. Calculated as a proportion of tmprehrs based on reading, where Very little=.10; Some=.25; About half=.50; Most=.75; Almost all=.90)</i>																						
														<b>6.5</b>	7.2 ***	-0.11	7.1 ***	-0.09	7.4 ***	-0.13				
	tmreadinghrscol	1	0 hrs	12	1	153	1	148	1	78	1													
	<i>(Collapsed version of tmreadinghrs created by NSSE.)</i>	2	More than zero, up to 5 hrs	1,001	52	10,115	48	10,171	49	4,206	47													
		3	More than 5, up to 10 hrs	535	27	6,043	28	5,903	27	2,603	28													
		4	More than 10, up to 15 hrs	171	8	2,165	10	2,217	10	996	10													
		5	More than 15, up to 20 hrs	114	6	1,439	7	1,347	6	627	6													
		6	More than 20, up to 25 hrs	88	4	1,066	5	1,026	5	510	5													
		7	More than 25 hrs	27	1	441	2	472	2	217	2													
		Total		1,948	100	21,422	100	21,284	100	9,237	100													
<b>18. How much has your experience at this institution contributed to your knowledge, skills, and personal development in the following areas?</b>																								
a. Writing clearly and effectively	pgwrite	1	Very little	131	7	1,372	7	1,256	6	540	6	<b>2.8</b>	2.9 ***	-0.11	2.9 ***	-0.15	2.9 ***	-0.14						
		2	Some	554	29	5,174	24	4,867	23	2,138	23								▽					
		3	Quite a bit	812	41	8,816	41	9,020	42	3,853	41								▽					
		4	Very much	463	23	6,114	28	6,213	29	2,733	29								▽					
		Total		1,960	100	21,476	100	21,356	100	9,264	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 2020 Frequencies and Statistical Comparisons

## University of Waterloo

### Seniors

				Frequency Distributions <sup>a</sup>								Statistical Comparisons <sup>b</sup>								
				UWaterloo		U15		ON Universities		U6		Your 4th-year students compared with								
Item wording or description	Variable name <sup>c</sup>	Values <sup>d</sup>	Response options	Count	%	Count	%	Count	%	Count	%	UWaterloo	U15	ON Universities	U6	Effect size <sup>e</sup>	Effect size <sup>e</sup>	Effect size <sup>e</sup>	Effect size <sup>e</sup>	
				Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
b. Speaking clearly and effectively	pgspeak	1	Very little	208	11	2,263	11	2,069	10	1,001	11	<b>2.6</b>	2.7 **	-0.06	2.8 ***	-0.11	2.7 **	-0.07	▽	▽
		2	Some	644	33	6,345	29	6,021	28	2,716	29									
		3	Quite a bit	724	37	8,164	38	8,291	39	3,523	38									
		4	Very much	386	20	4,694	22	4,952	23	2,027	22									
		Total		1,962	100	21,466	100	21,333	100	9,267	100									
c. Thinking critically and analytically	pgthink	1	Very little	33	2	498	2	515	3	209	2	<b>3.2</b>	3.2	.00	3.2	.00	3.3	-0.04	▽	▽
		2	Some	284	15	2,923	14	2,929	14	1,214	13									
		3	Quite a bit	811	41	8,853	41	8,722	40	3,703	39									
		4	Very much	836	43	9,183	43	9,153	43	4,124	45									
		Total		1,964	100	21,457	100	21,319	100	9,250	100									
d. Analyzing numerical and statistical information	pganalyze	1	Very little	109	5	2,749	12	2,943	13	1,182	12	<b>3.1</b>	2.8 ***	.28	2.8 ***	.30	2.8 ***	.26	▲	▲
		2	Some	414	21	5,727	26	5,735	26	2,395	25									
		3	Quite a bit	743	38	7,166	33	7,081	33	3,100	33									
		4	Very much	695	36	5,826	29	5,578	28	2,585	30									
		Total		1,961	100	21,468	100	21,337	100	9,262	100									
e. Acquiring job- or work-related knowledge and skills	pgwork	1	Very little	148	7	3,629	17	3,564	17	1,818	19	<b>3.0</b>	2.5 ***	.43	2.5 ***	.43	2.5 ***	.52	▲	▲
		2	Some	453	23	6,783	32	6,835	32	3,120	33									
		3	Quite a bit	703	35	6,760	31	6,755	32	2,726	30									
		4	Very much	658	34	4,289	20	4,174	20	1,594	18									
		Total		1,962	100	21,461	100	21,328	100	9,258	100									
f. Working effectively with others	pgothers	1	Very little	127	7	1,638	8	1,517	7	790	8	<b>2.9</b>	2.8 **	.06	2.8	.02	2.8 ***	.09	▲	▲
		2	Some	502	26	5,991	28	5,665	26	2,680	28									
		3	Quite a bit	842	43	8,805	41	8,816	41	3,743	40									
		4	Very much	486	25	5,032	24	5,327	25	2,051	23									
		Total		1,957	100	21,466	100	21,325	100	9,264	100									
g. Developing or clarifying a personal code of values and ethics	pgvalues	1	Very little	330	17	3,278	16	3,064	15	1,526	17	<b>2.5</b>	2.5 *	-0.05	2.6 ***	-0.10	2.5	-0.03	▽	▽
		2	Some	622	32	6,839	32	6,345	30	2,955	32									
		3	Quite a bit	675	34	7,406	34	7,671	36	3,141	34									
		4	Very much	332	17	3,925	18	4,234	20	1,629	18									
		Total		1,959	100	21,448	100	21,314	100	9,251	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 2020 Frequencies and Statistical Comparisons

## University of Waterloo

### Seniors

#### Frequency Distributions<sup>a</sup>

#### Statistical Comparisons<sup>b</sup>

*Your 4th-year students compared with*

Item wording or description	Variable name <sup>c</sup>	Values <sup>d</sup>	Response options	Frequency Distributions <sup>a</sup>								Statistical Comparisons <sup>b</sup>						
				UWaterloo		U15		ON Universities		U6		UWaterloo	U15	ON Universities	U6	Effect size <sup>e</sup>	Effect size <sup>e</sup>	Effect size <sup>e</sup>
				Count	%	Count	%	Count	%	Count	%	Mean	Mean	Mean	Mean	Mean	Mean	Mean
h. Understanding people of other backgrounds (economic, racial/ethnic, political, religious, nationality, etc.)	pgdiverse	1	Very little	318	17	2,986	14	2,625	13	1,312	15	<b>2.5</b>	2.6 *** ▽	-0.09	2.7 *** ▽	-.17	2.6 *** ▽	-.10
		2	Some	647	33	6,742	31	6,176	29	2,843	31							
		3	Quite a bit	642	33	7,355	34	7,587	35	3,190	34							
		4	Very much	353	18	4,371	20	4,940	23	1,914	21							
		Total		1,960	100	21,454	100	21,328	100	9,259	100							
i. Solving complex real-world problems	pgprobsolve	1	Very little	174	9	2,675	13	2,647	12	1,211	13	<b>2.8</b>	2.6 *** △	.19	2.6 *** △	.17	2.6 *** △	.21
		2	Some	563	28	7,117	33	7,008	33	3,193	34							
		3	Quite a bit	751	38	7,632	36	7,423	35	3,171	34							
		4	Very much	471	25	4,026	19	4,242	20	1,678	19							
		Total		1,959	100	21,450	100	21,320	100	9,253	100							
j. Being an informed and active citizen	pgcitizen	1	Very little	381	20	3,436	17	3,343	16	1,610	18	<b>2.4</b>	2.5 *** ▽	-.13	2.5 *** ▽	-.17	2.5 *** ▽	-.10
		2	Some	742	38	7,325	34	6,885	32	3,149	34							
		3	Quite a bit	541	27	7,024	32	7,069	33	2,941	31							
		4	Very much	300	15	3,691	17	4,045	19	1,561	17							
		Total		1,964	100	21,476	100	21,342	100	9,261	100							
<b>19. How would you evaluate your entire educational experience at this institution?</b>																		
	evalexp	1	Poor	64	3	1,013	5	1,087	5	498	6	<b>3.1</b>	3.0 *** △	.13	2.9 *** △	.14	2.9 *** △	.15
		2	Fair	340	17	4,210	19	4,432	20	1,971	20							
		3	Good	990	49	11,242	51	10,657	49	4,634	49							
		4	Excellent	583	30	5,062	25	5,206	25	2,174	25							
		Total		1,977	100	21,527	100	21,382	100	9,277	100							
<b>20. If you could start over again, would you go to the same institution you are now attending?</b>																		
	sameinst	1	Definitely no	84	4	1,262	6	1,433	7	651	7	<b>3.1</b>	3.1 *** △	.08	3.0 *** △	.14	3.0 *** △	.13
		2	Probably no	286	14	3,633	16	3,911	18	1,699	18							
		3	Probably yes	919	46	9,706	44	9,585	44	4,088	43							
		4	Definitely yes	687	35	6,972	33	6,500	31	2,866	32							
		Total		1,976	100	21,573	100	21,429	100	9,304	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 2020 Frequencies and Statistical Comparisons

## Detailed Statistics<sup>g</sup>

### University of Waterloo

#### First-Year Students

Variable Name	N		Mean			Standard error <sup>h</sup>				Standard deviation <sup>i</sup>				Degrees of freedom <sup>i</sup>			Significance <sup>k</sup>			Effect size <sup>e</sup>		
	UWaterloo	UWaterloo	U15	ON Universities	U6	UWaterloo	U15	ON Universities	U6	UWaterloo	U15	ON Universities	U6	Comparisons with:			Comparisons with:			Comparisons with:		
														U15	ON Universities	U6	U15	ON Universities	U6	U15	ON Universities	U6
1 a. askquest	3,764	2,34	2.29	2.39	2.34	.014	.004	.004	.006	.85	.85	.85	.85	57,558	4,295	26,951	.000	.000	.993	.06	-.06	.00
b. unpreparedr	3,750	2.68	2.79	2.81	2.74	.014	.004	.004	.005	.84	.84	.83	.83	4,277	4,261	4,998	.000	.000	.000	-.13	-.15	-.07
c. attendart	3,742	1.57	1.56	1.54	1.58	.013	.003	.003	.005	.78	.80	.81	.82	57,242	58,765	5,162	.730	.085	.263	.01	.03	-.02
d. CLaskhelp	3,745	2.89	2.69	2.67	2.73	.014	.004	.004	.006	.86	.88	.89	.89	4,318	4,305	5,121	.000	.000	.000	.22	.24	.18
e. CLexplain	3,742	2.89	2.73	2.76	2.78	.013	.004	.004	.005	.80	.83	.83	.82	4,327	4,308	5,129	.000	.000	.000	.18	.15	.13
f. CLstudy	3,728	2.78	2.65	2.66	2.69	.015	.004	.004	.006	.93	.96	.97	.95	4,309	4,300	5,100	.000	.000	.000	.13	.12	.09
g. CLproject	3,725	2.85	2.69	2.66	2.68	.014	.004	.004	.006	.87	.93	.93	.92	4,336	4,320	5,189	.000	.000	.000	.17	.20	.18
h. present	3,728	2.16	1.79	1.87	1.73	.014	.004	.004	.006	.86	.85	.90	.84	4,263	4,312	4,965	.000	.000	.000	.44	.33	.52
2 a. RIintegrate	3,693	2.63	2.58	2.62	2.59	.013	.004	.004	.006	.80	.84	.84	.84	4,290	4,274	5,117	.002	.580	.010	.05	.01	.04
b. RISocietal	3,689	2.39	2.51	2.53	2.50	.014	.004	.004	.006	.87	.89	.89	.89	4,251	4,236	5,050	.000	.000	.000	-.14	-.16	-.13
c. RIDiverse	3,659	2.20	2.28	2.39	2.33	.015	.004	.004	.006	.94	.95	.95	.96	4,212	4,202	5,009	.000	.000	.000	-.08	-.20	-.13
d. Rlownview	3,643	2.62	2.62	2.66	2.65	.013	.004	.004	.006	.81	.83	.82	.84	4,219	55,923	5,035	.817	.005	.138	.00	-.05	-.03
e. Rlperspect	3,606	2.79	2.80	2.84	2.82	.013	.004	.004	.006	.80	.81	.80	.81	53,417	4,130	25,075	.220	.000	.008	-.02	-.07	-.05
f. RInewview	3,582	2.84	2.88	2.87	2.88	.013	.003	.003	.005	.77	.77	.78	.78	52,693	54,467	24,773	.021	.059	.007	-.04	-.03	-.05
g. RIconnect	3,566	2.99	3.05	3.04	3.06	.012	.003	.003	.005	.74	.74	.75	.75	4,099	4,090	4,863	.000	.000	.000	-.08	-.07	-.10
3 a. SFcareer	3,559	1.91	1.76	1.81	1.80	.016	.004	.004	.006	.93	.89	.91	.90	52,142	53,901	24,504	.000	.000	.000	.16	.10	.12
b. SFotherwork	3,542	1.63	1.48	1.54	1.54	.014	.004	.004	.006	.86	.78	.82	.82	3,986	4,013	4,699	.000	.000	.000	.20	.12	.11
c. SFdiscuss	3,535	1.96	1.79	1.83	1.84	.015	.004	.004	.006	.89	.87	.88	.88	4,042	4,042	4,799	.000	.000	.000	.20	.15	.14
d. SFperform	3,547	1.77	1.65	1.75	1.71	.015	.004	.004	.006	.87	.82	.85	.85	4,023	53,392	24,279	.000	.112	.000	.15	.03	.07
4 a. memorize	3,538	2.86	3.03	2.99	3.01	.014	.004	.004	.006	.84	.82	.82	.82	4,058	4,032	4,778	.000	.000	.000	-.20	-.15	-.18
b. HOapply	3,527	3.07	2.99	2.97	3.04	.013	.004	.004	.006	.79	.82	.81	.81	51,000	52,868	24,043	.000	.000	.025	.10	.12	.04
c. HOanalyze	3,503	2.92	2.88	2.87	2.91	.014	.004	.004	.006	.81	.82	.83	.83	4,060	4,044	4,852	.006	.001	.595	.05	.06	.01
d. HOevaluate	3,490	2.66	2.69	2.74	2.73	.015	.004	.004	.006	.86	.88	.86	.88	50,325	52,123	23,721	.067	.000	.000	-.03	-.10	-.08
e. HOform	3,499	2.80	2.76	2.78	2.80	.014	.004	.004	.006	.82	.84	.83	.84	4,077	4,039	4,883	.013	.435	.819	.04	.01	.00
5 a. ETgoals	3,484	2.98	2.97	2.93	2.92	.013	.004	.004	.006	.75	.77	.79	.79	4,063	4,064	4,913	.238	.000	.000	.02	.07	.08
b. ETorganize	3,469	2.93	2.91	2.86	2.87	.013	.004	.004	.006	.78	.78	.82	.80	49,602	4,045	4,836	.054	.000	.000	.03	.09	.08
c. ETexample	3,467	3.02	3.00	2.94	2.96	.013	.004	.004	.006	.78	.79	.82	.81	49,562	4,039	4,845	.052	.000	.000	.03	.10	.08
d. ETdraftfb	3,464	2.41	2.33	2.37	2.31	.015	.004	.004	.007	.90	.92	.94	.93	49,406	4,025	23,342	.000	.003	.000	.09	.05	.11
e. ETfeedback	3,480	2.53	2.39	2.40	2.36	.015	.004	.004	.006	.87	.89	.91	.90	49,367	4,057	23,336	.000	.000	.000	.15	.15	.18
6 a. QRconclude	3,450	2.63	2.45	2.44	2.47	.014	.004	.004	.006	.84	.90	.91	.90	4,074	4,053	4,938	.000	.000	.000	.21	.22	.18
b. QRproblem	3,433	2.30	2.17	2.22	2.24	.016	.004	.004	.007	.92	.92	.91	.92	3,968	3,944	4,706	.000	.000	.001	.14	.09	.06
c. QRevaluate	3,442	2.37	2.23	2.25	2.28	.015	.004	.004	.006	.87	.89	.89	.89	48,389	50,276	22,879	.000	.000	.000	.16	.13	.10

# NSSE 2020 Frequencies and Statistical Comparisons

## Detailed Statistics<sup>g</sup>

### University of Waterloo

#### First-Year Students

Variable Name	N		Mean				Standard error <sup>h</sup>				Standard deviation <sup>i</sup>				Degrees of freedom <sup>i</sup>			Significance <sup>k</sup>			Effect size <sup>e</sup>		
	UWaterloo	UWaterloo	U15	ON Universities	U6	UWaterloo	U15	ON Universities	U6	UWaterloo	U15	ON Universities	U6	Comparisons with:			Comparisons with:			Comparisons with:			
														U15	ON Universities	U6	U15	ON Universities	U6	U15	ON Universities	U6	
7 a. wrshortnum	3,422	6.59	6.10	6.59	6.36	.099	.027	.027	.041	5.81	5.60	5.72	5.76	3,925	49,958	22,729	.000	.979	.034	.09	.00	.04	
b. wrmednum	3,408	3.40	2.98	3.44	3.29	.076	.019	.020	.031	4.44	4.09	4.36	4.36	3,863	49,701	22,590	.000	.581	.186	.10	-.01	.02	
c. wrlongnum	3,424	2.13	1.63	1.90	1.94	.069	.018	.019	.030	4.03	3.76	4.08	4.13	3,894	49,821	22,672	.000	.001	.013	.13	.06	.05	
— wrpages	3,381	77.70	65.68	74.78	73.33	1.668	.427	.451	.700	96.98	89.66	96.63	96.54	3,837	49,284	22,406	.000	.090	.015	.13	.03	.05	
8 a. DDrace	3,434	3.25	3.13	3.13	3.19	.015	.004	.004	.006	.87	.91	.91	.89	48,019	49,925	22,722	.000	.000	.000	.13	.14	.07	
b. DDeconomic	3,417	3.08	2.97	2.98	3.02	.015	.004	.004	.006	.87	.90	.90	.90	47,912	49,755	22,646	.000	.000	.000	.13	.11	.07	
c. DDreligion	3,419	3.13	2.97	3.02	3.06	.015	.004	.004	.007	.89	.95	.93	.92	4,031	49,785	22,676	.000	.000	.000	.17	.12	.08	
d. DDpolitical	3,411	2.83	2.78	2.77	2.78	.016	.004	.004	.007	.93	.93	.94	.94	47,953	3,942	4,717	.003	.000	.002	.05	.07	.06	
9 a. LSreading	3,406	2.87	2.94	2.93	2.94	.013	.004	.004	.006	.79	.79	.78	.78	3,951	3,914	4,688	.000	.000	.000	-.09	-.08	-.09	
b. LSnotes	3,409	2.68	2.71	2.68	2.68	.015	.004	.004	.006	.87	.91	.89	.90	3,999	3,961	4,793	.036	.820	.662	-.04	.00	-.01	
c. LSsummary	3,409	2.73	2.79	2.75	2.77	.015	.004	.004	.006	.87	.90	.88	.89	3,997	49,540	22,543	.000	.238	.012	-.07	-.02	-.05	
10. challenge	3,404	5.22	5.38	5.28	5.33	.023	.006	.006	.009	1.33	1.26	1.29	1.29	47,432	49,359	22,447	.000	.010	.000	-.12	-.05	-.08	
11 a. intern <sup>l</sup>	3,387	.217	.071	.055	.050	.0071	.0012	.0011	.0016	--	--	--	--	--	--	--	.000	.000	.000	.43	.50	.52	
b. leader <sup>l</sup>	3,376	.122	.083	.075	.087	.0056	.0013	.0012	.0020	--	--	--	--	--	--	--	.000	.000	.000	.13	.16	.11	
c. learncom <sup>l</sup>	3,372	.161	.099	.075	.090	.0063	.0014	.0012	.0021	--	--	--	--	--	--	--	.000	.000	.000	.19	.27	.22	
d. abroad <sup>l</sup>	3,368	.028	.026	.028	.028	.0028	.0008	.0008	.0012	--	--	--	--	--	--	--	.673	.908	.762	.01	.00	-.01	
e. research <sup>l</sup>	3,376	.031	.030	.028	.029	.0030	.0008	.0008	.0012	--	--	--	--	--	--	--	.708	.270	.470	.01	.02	.01	
f. capstone <sup>l</sup>	3,377	.031	.021	.021	.022	.0030	.0007	.0007	.0011	--	--	--	--	--	--	--	.000	.000	.001	.06	.06	.06	
12. servcourse	3,330	1.56	1.48	1.55	1.53	.013	.003	.003	.005	.72	.68	.70	.69	3,793	3,810	4,476	.000	.765	.032	.11	.01	.04	
13 a. QIstudent	3,367	5.40	5.43	5.35	5.36	.024	.007	.007	.010	1.39	1.36	1.40	1.39	46,354	48,239	22,037	.241	.048	.102	-.02	.04	.03	
b. QIadvisor	2,801	4.83	4.82	4.85	4.78	.031	.009	.009	.014	1.63	1.68	1.67	1.67	3,320	3,259	3,961	.891	.494	.202	.00	-.01	.03	
c. QIfaculty	3,243	5.04	4.99	4.93	4.90	.025	.007	.007	.011	1.43	1.47	1.51	1.52	44,144	3,810	4,683	.082	.000	.000	.03	.07	.09	
d. QIstaff	2,900	4.91	4.86	4.83	4.79	.029	.009	.009	.014	1.55	1.65	1.68	1.67	3,505	3,465	4,282	.093	.010	.000	.03	.05	.07	
e. QIadmin	2,670	4.77	4.80	4.78	4.73	.031	.009	.009	.014	1.60	1.67	1.68	1.68	3,151	3,100	3,753	.316	.926	.253	-.02	.00	.02	
14 a. empstudy	3,358	3.34	3.20	3.09	3.20	.012	.004	.004	.006	.72	.75	.77	.77	3,939	3,942	22,050	.000	.000	.000	.19	.32	.18	
b. SEacademic	3,343	2.88	2.76	2.80	2.73	.014	.004	.004	.006	.78	.82	.85	.84	3,938	3,948	4,811	.000	.000	.000	.14	.10	.18	
c. SElearnsup	3,335	2.82	2.70	2.77	2.74	.015	.004	.004	.007	.86	.90	.91	.90	3,931	3,918	4,745	.000	.001	.000	.13	.05	.09	
d. SEdiverse	3,332	2.47	2.43	2.47	2.42	.016	.005	.005	.007	.95	.97	.97	.97	3,890	3,869	21,929	.009	.919	.005	.05	.00	.05	
e. SEsocial	3,328	2.62	2.66	2.68	2.63	.015	.004	.004	.007	.88	.90	.91	.91	46,233	3,877	4,685	.008	.000	.304	-.05	-.07	-.02	
f. SEwellness	3,332	2.74	2.58	2.64	2.51	.015	.005	.004	.007	.87	.94	.94	.96	3,957	3,936	4,888	.000	.000	.000	.17	.10	.24	



# NSSE 2020 Frequencies and Statistical Comparisons

## Detailed Statistics<sup>g</sup>

### University of Waterloo

#### First-Year Students

Variable Name	N		Mean			Standard error <sup>h</sup>				Standard deviation <sup>i</sup>				Degrees of freedom <sup>i</sup>				Significance <sup>k</sup>				Effect size <sup>e</sup>			
	UWaterloo	UWaterloo	U15	ON Universities		UWaterloo	U15	ON Universities		UWaterloo	U15	ON Universities		Comparisons with:				Comparisons with:				Comparisons with:			
				U6	U6			U6	U6			U15	ON Universities	U6	U15	ON Universities	U6	U15	ON Universities	U6	U15	ON Universities	U6	U15	ON Universities
g. SEnonacad	3,319	2.19	2.01	2.10	2.01	.016	.004	.004	.007	.93	.92	.95	.93	3,845	47,934	4,600	.000	.000	.000	.20	.10	.19			
h. SEactivities	3,327	2.37	2.45	2.46	2.41	.016	.004	.004	.007	.91	.92	.94	.92	3,878	3,876	4,646	.000	.000	.023	-.09	-.10	-.04			
i. SEevents	3,334	2.23	2.26	2.27	2.22	.016	.004	.004	.007	.91	.90	.91	.89	46,149	3,857	21,888	.057	.007	.534	-.03	-.05	.01			
15 a. SBmyself	3,341	3.17	3.18	3.14	3.12	.011	.003	.003	.005	.66	.69	.70	.71	3,941	3,929	21,887	.287	.023	.000	-.02	.04	.07			
b. SBvalued	3,336	2.79	2.75	2.75	2.66	.013	.004	.004	.006	.74	.79	.78	.81	3,968	3,922	4,914	.007	.010	.000	.05	.04	.17			
c. SBcommunity	3,340	2.89	2.82	2.82	2.79	.013	.004	.004	.006	.72	.79	.79	.80	3,979	3,951	4,937	.000	.000	.000	.08	.08	.13			
16 a. tmprephrs	3,339	18.49	16.96	15.89	17.23	.164	.044	.042	.066	9.45	9.07	8.77	8.99	3,835	3,782	4,494	.000	.000	.000	.17	.29	.14			
b. tmcocurrhrs	3,327	5.22	4.12	4.49	4.67	.109	.030	.031	.047	6.30	6.11	6.47	6.39	3,831	47,747	21,759	.000	.000	.000	.18	.11	.09			
c. tmworkonhrs	3,329	1.80	1.23	1.55	1.48	.093	.022	.024	.037	5.39	4.54	5.06	4.97	3,707	3,780	4,409	.000	.010	.001	.12	.05	.06			
d. tmworkoffhrs	3,324	2.86	5.14	5.62	4.13	.117	.039	.041	.056	6.77	8.13	8.63	7.58	4,109	4,176	4,948	.000	.000	.000	-.28	-.32	-.17			
— tmworkhrs	3,306	4.60	6.34	7.11	5.56	.190	.050	.053	.078	10.90	10.38	11.24	10.62	3,787	3,850	4,507	.000	.000	.000	-.17	-.22	-.09			
e. tmservicehrs	3,333	2.37	2.20	2.49	2.31	.094	.023	.025	.037	5.40	4.78	5.30	5.03	3,753	47,719	4,438	.091	.192	.560	.03	-.02	.01			
f. tmrelaxhrs	3,327	12.79	12.85	13.35	13.06	.144	.041	.041	.063	8.30	8.50	8.67	8.55	3,891	3,891	4,689	.662	.000	.087	-.01	-.06	-.03			
g. tmcarehrs	3,320	2.24	2.70	3.36	2.85	.096	.030	.032	.046	5.52	6.23	6.82	6.22	4,009	4,117	4,968	.000	.000	.000	-.07	-.17	-.10			
h. tmcommutehrs	3,338	5.00	6.70	6.82	6.52	.101	.032	.034	.051	5.84	6.60	7.08	6.87	4,034	4,110	5,152	.000	.000	.000	-.26	-.26	-.23			
17. reading	3,325	2.30	2.70	2.72	2.75	.020	.006	.006	.009	1.13	1.18	1.16	1.18	3,913	3,872	4,731	.000	.000	.000	-.35	-.37	-.39			
— tmreadinghrs	3,310	6.24	7.46	7.13	7.77	.099	.031	.030	.048	5.69	6.44	6.22	6.50	4,002	3,926	5,000	.000	.000	.000	-.19	-.14	-.24			
18 a. pgwrite	3,321	2.60	2.56	2.62	2.58	.015	.004	.004	.007	.87	.90	.88	.89	3,891	47,579	4,662	.006	.414	.125	.05	-.01	.03			
b. pgspeak	3,310	2.47	2.33	2.41	2.32	.016	.005	.004	.007	.91	.95	.94	.95	3,897	3,868	4,722	.000	.000	.000	.15	.06	.15			
c. pgthink	3,306	3.09	3.01	3.03	3.04	.014	.004	.004	.006	.80	.81	.80	.81	3,861	3,826	21,653	.000	.000	.001	.10	.08	.06			
d. pganalyze	3,294	2.91	2.62	2.57	2.62	.016	.005	.005	.007	.91	.99	1.00	1.00	3,927	3,915	4,837	.000	.000	.000	.29	.34	.29			
e. pgwork	3,309	2.72	2.36	2.37	2.29	.016	.005	.005	.007	.95	.97	.96	.96	3,871	3,838	4,635	.000	.000	.000	.37	.37	.44			
f. pgothers	3,311	2.76	2.60	2.64	2.59	.015	.004	.004	.007	.87	.92	.92	.93	3,916	3,887	4,807	.000	.000	.000	.17	.12	.18			
g. pgvalues	3,313	2.49	2.44	2.51	2.44	.016	.005	.004	.007	.94	.95	.94	.96	45,623	47,428	21,641	.003	.234	.020	.05	-.02	.04			
h. pgdiverse	3,309	2.50	2.54	2.62	2.55	.017	.005	.005	.007	.98	.97	.96	.97	45,613	3,803	21,633	.018	.000	.003	-.04	-.13	-.06			
i. pgprobsolve	3,314	2.68	2.50	2.53	2.52	.016	.005	.004	.007	.93	.94	.94	.94	3,861	3,836	4,628	.000	.000	.000	.20	.16	.18			
j. pgcitizen	3,320	2.44	2.47	2.51	2.46	.016	.005	.004	.007	.94	.95	.95	.96	45,679	47,507	4,652	.147	.000	.420	-.03	-.07	-.02			
19. evalexp	3,334	3.05	2.98	2.95	2.92	.013	.004	.004	.006	.73	.74	.76	.77	45,824	3,887	4,754	.000	.000	.000	.10	.14	.17			
20. sameinst	3,340	3.25	3.19	3.10	3.10	.013	.004	.004	.006	.76	.77	.80	.81	45,973	3,910	21,846	.000	.000	.000	.07	.18	.18			
21. returnexp <sup>1</sup>	3,348	.932	.895	.884	.884	.0044	.0015	.0015	.0024	--	--	--	--	--	--	--	.000	.000	.000	.13	.17	.17			

# NSSE 2020 Frequencies and Statistical Comparisons

## Detailed Statistics<sup>g</sup>

### University of Waterloo

#### Seniors

Variable Name	N		Mean			Standard error <sup>h</sup>				Standard deviation <sup>i</sup>				Degrees of freedom <sup>j</sup>			Significance <sup>k</sup>			Effect size <sup>e</sup>		
	UWaterloo	UWaterloo	U15	ON Universities	U6	UWaterloo	U15	ON Universities	U6	UWaterloo	U15	ON Universities	U6	Comparisons with:			Comparisons with:			Comparisons with:		
														U15	ON Universities	U6	U15	ON Universities	U6	U15	ON Universities	U6
1 a. askquest	2,172	2,42	2.59	2.68	2.64	.019	.005	.005	.008	.88	.91	.91	.91	2,492	2,514	2,923	.000	.000	.000	-.20	-.29	-.25
b. unpreparedr	2,172	2.57	2.67	2.67	2.62	.019	.005	.005	.007	.89	.87	.87	.87	2,463	2,483	2,846	.000	.000	.003	-.12	-.13	-.07
c. attendart	2,162	1.60	1.66	1.60	1.66	.016	.005	.005	.007	.76	.82	.81	.83	2,516	2,537	3,016	.000	.997	.001	-.08	.00	-.07
d. CLaskhelp	2,162	2.58	2.50	2.49	2.51	.019	.005	.005	.008	.89	.90	.90	.91	34,255	32,199	16,292	.000	.000	.001	.08	.09	.08
e. CLexplain	2,157	2.70	2.71	2.75	2.73	.018	.005	.005	.007	.82	.83	.83	.83	34,218	32,154	16,271	.525	.009	.084	-.01	-.06	-.04
f. CLstudy	2,155	2.57	2.54	2.55	2.54	.020	.005	.006	.008	.93	.98	.98	.98	2,485	2,510	2,930	.190	.362	.142	.03	.02	.03
g. CLproject	2,151	2.89	2.93	2.92	2.89	.019	.005	.005	.008	.89	.91	.91	.92	33,976	31,935	2,904	.079	.148	.812	-.04	-.03	.01
h. present	2,147	2.50	2.61	2.71	2.63	.020	.005	.005	.008	.91	.92	.93	.92	33,923	31,951	16,136	.000	.000	.000	-.12	-.23	-.15
2 a. RIintegrate	2,139	2.68	2.85	2.88	2.85	.018	.005	.005	.007	.83	.82	.82	.82	2,432	2,452	2,819	.000	.000	.000	-.21	-.25	-.21
b. RISocietal	2,122	2.39	2.68	2.72	2.68	.020	.005	.005	.008	.90	.90	.90	.90	33,547	31,602	15,951	.000	.000	.000	-.32	-.36	-.32
c. RIDiverse	2,129	2.14	2.39	2.49	2.43	.020	.006	.006	.008	.93	.98	.99	.98	2,460	2,489	2,915	.000	.000	.000	-.26	-.36	-.30
d. Rlownview	2,110	2.56	2.68	2.73	2.70	.018	.005	.005	.007	.81	.83	.83	.83	32,988	31,212	15,717	.000	.000	.000	-.15	-.21	-.17
e. Rlperspect	2,092	2.74	2.84	2.89	2.87	.018	.005	.005	.007	.80	.81	.80	.81	2,394	2,404	2,786	.000	.000	.000	-.13	-.19	-.17
f. RInewview	2,082	2.81	2.93	2.95	2.95	.017	.004	.005	.007	.76	.76	.77	.76	2,382	2,405	2,787	.000	.000	.000	-.17	-.19	-.19
g. RIconnect	2,069	2.98	3.08	3.10	3.08	.016	.004	.004	.006	.74	.73	.74	.74	2,360	2,380	2,756	.000	.000	.000	-.13	-.15	-.13
3 a. SFcareer	2,076	1.91	1.98	2.04	1.99	.019	.005	.006	.008	.88	.92	.94	.92	32,036	30,343	15,263	.002	.000	.000	-.07	-.13	-.08
b. SFotherwork	2,072	1.73	1.70	1.72	1.71	.020	.005	.006	.008	.90	.92	.93	.92	31,890	2,412	15,184	.125	.716	.383	.03	.01	.02
c. SFdiscuss	2,072	1.96	1.97	2.00	2.00	.019	.005	.005	.008	.86	.88	.90	.90	31,716	30,045	15,097	.687	.077	.055	-.01	-.04	-.05
d. SFperform	2,065	1.75	1.77	1.88	1.82	.018	.005	.005	.007	.82	.83	.87	.85	31,726	30,085	15,106	.383	.000	.001	-.02	-.15	-.08
4 a. memorize	2,064	2.80	2.93	2.90	2.92	.019	.005	.005	.008	.87	.88	.88	.88	2,365	29,913	2,771	.000	.000	.000	-.14	-.11	-.14
b. HOapply	2,058	3.00	2.96	2.97	2.97	.017	.005	.005	.007	.78	.81	.81	.81	2,381	2,404	2,819	.031	.173	.105	.05	.03	.04
c. HOanalyze	2,050	2.89	2.88	2.91	2.91	.018	.005	.005	.007	.81	.84	.84	.84	2,373	2,396	14,826	.815	.375	.224	.01	-.02	-.03
d. HOevaluate	2,038	2.64	2.74	2.80	2.77	.020	.005	.005	.008	.89	.89	.88	.90	31,030	2,345	14,767	.000	.000	.000	-.12	-.18	-.15
e. HOform	2,038	2.72	2.77	2.82	2.79	.019	.005	.005	.008	.84	.84	.84	.85	30,893	2,356	14,709	.011	.000	.000	-.06	-.11	-.08
5 a. ETgoals	2,039	2.95	2.97	2.95	2.94	.016	.005	.005	.007	.74	.77	.79	.77	30,717	2,401	2,809	.255	.926	.740	-.03	.00	.01
b. ETorganize	2,029	2.87	2.90	2.87	2.89	.017	.005	.005	.007	.76	.77	.80	.78	30,659	2,379	14,604	.054	.722	.311	-.04	-.01	-.02
c. ETexample	2,023	2.93	2.97	2.92	2.94	.017	.005	.005	.007	.76	.78	.81	.80	30,570	2,387	2,802	.073	.365	.863	-.04	.02	.00
d. ETdraftfb	2,019	2.32	2.38	2.44	2.40	.020	.006	.006	.008	.90	.93	.94	.93	2,330	2,354	2,747	.005	.000	.000	-.06	-.12	-.09
e. ETfeedback	2,030	2.51	2.45	2.48	2.45	.019	.005	.005	.008	.83	.87	.88	.88	2,357	2,384	2,812	.005	.175	.004	.06	.03	.07
6 a. QRconclude	2,019	2.64	2.50	2.50	2.52	.019	.006	.006	.008	.86	.92	.92	.93	2,368	2,388	2,848	.000	.000	.000	.16	.16	.13
b. QRproblem	2,008	2.32	2.25	2.28	2.27	.021	.006	.006	.009	.94	.94	.94	.95	30,055	28,624	14,314	.002	.070	.036	.07	.04	.05
c. QRevaluate	2,010	2.40	2.35	2.36	2.39	.019	.005	.006	.008	.87	.91	.91	.92	2,338	2,357	2,795	.027	.090	.910	.05	.04	.00

# NSSE 2020 Frequencies and Statistical Comparisons

## Detailed Statistics<sup>g</sup>

### University of Waterloo

#### Seniors

Variable Name	N		Mean				Standard error <sup>h</sup>				Standard deviation <sup>i</sup>				Degrees of freedom <sup>i</sup>				Significance <sup>k</sup>			Effect size <sup>e</sup>			
	UWaterloo	UWaterloo	U15	ON Universities	U6	UWaterloo	U15	ON Universities	U6	UWaterloo	U15	ON Universities	U6	Comparisons with:				Comparisons with:			Comparisons with:				
														U15	ON Universities	U6	U15	ON Universities	U6	U15	ON Universities	U6			
7 a. wrshortnum	1,993	7.43	7.39	7.90	7.87	.141	.038	.039	.058	6.30	6.28	6.38	6.36	29,683	28,322	14,160	.779	.002	.005	.01	-.07	-.07			
b. wrmednum	1,975	4.90	4.45	5.00	4.80	.121	.029	.031	.045	5.36	4.79	5.03	4.94	2,205	2,243	2,550	.000	.408	.425	.09	-.02	.02			
c. wrlongnum	1,985	3.25	2.95	3.21	3.09	.104	.027	.029	.042	4.65	4.49	4.69	4.64	2,257	28,321	14,137	.005	.683	.157	.07	.01	.03			
— wrpages	1,959	109.68	101.19	111.13	107.70	2.575	.642	.691	1.000	113.96	106.21	111.46	109.61	2,209	27,962	2,584	.001	.581	.472	.08	-.01	.02			
8 a. DDrace	1,996	3.17	3.15	3.18	3.20	.020	.005	.005	.008	.89	.89	.88	.88	29,770	28,367	14,167	.224	.780	.172	.03	-.01	-.03			
b. DDeconomic	1,988	2.96	2.96	3.02	3.01	.019	.005	.005	.008	.87	.89	.89	.89	29,658	28,264	14,103	.912	.005	.024	.00	-.06	-.05			
c. DDreligion	1,982	3.01	2.96	3.04	3.03	.020	.006	.006	.008	.90	.93	.91	.91	2,291	28,295	14,124	.005	.248	.458	.06	-.03	-.02			
d. DDpolitical	1,978	2.69	2.76	2.79	2.76	.020	.005	.006	.008	.90	.91	.92	.92	29,679	28,294	14,112	.003	.000	.004	-.07	-.10	-.07			
9 a. LSreading	1,991	2.86	2.97	2.97	2.97	.019	.005	.005	.007	.83	.82	.81	.82	2,283	2,291	2,676	.000	.000	.000	-.13	-.14	-.14			
b. LSnotes	1,988	2.47	2.55	2.52	2.51	.021	.006	.006	.009	.92	.95	.94	.95	2,307	2,317	2,737	.000	.015	.050	-.09	-.06	-.05			
c. LSsummary	1,984	2.59	2.69	2.65	2.67	.020	.006	.006	.008	.90	.93	.92	.93	29,538	28,163	14,059	.000	.004	.001	-.11	-.07	-.08			
10. challenge	1,984	5.12	5.24	5.23	5.23	.029	.008	.008	.012	1.28	1.27	1.28	1.26	29,455	2,297	14,020	.000	.000	.000	-.09	-.09	-.09			
11 a. intern <sup>l</sup>	1,980	.712	.499	.456	.469	.0102	.0030	.0031	.0046	--	--	--	--	--	--	--	.000	.000	.000	.44	.53	.50			
b. leader <sup>l</sup>	1,980	.350	.348	.321	.373	.0107	.0029	.0029	.0044	--	--	--	--	--	--	--	.855	.007	.056	.00	.06	-.05			
c. learncom <sup>l</sup>	1,965	.180	.174	.163	.172	.0087	.0023	.0023	.0034	--	--	--	--	--	--	--	.538	.053	.380	.01	.04	.02			
d. abroad <sup>l</sup>	1,968	.119	.121	.095	.117	.0073	.0020	.0018	.0029	--	--	--	--	--	--	--	.843	.000	.795	.00	.08	.01			
e. research <sup>l</sup>	1,974	.239	.260	.224	.269	.0096	.0027	.0026	.0041	--	--	--	--	--	--	--	.033	.139	.005	-.05	.03	-.07			
f. capstone <sup>l</sup>	1,974	.441	.336	.342	.345	.0112	.0029	.0029	.0043	--	--	--	--	--	--	--	.000	.000	.000	.22	.20	.20			
12. servcourse	1,957	1.46	1.52	1.59	1.53	.015	.004	.004	.006	.65	.64	.67	.64	29,123	2,286	13,860	.000	.000	.000	-.10	-.20	-.12			
13 a. QIstudent	1,961	5.36	5.45	5.46	5.40	.030	.008	.008	.013	1.32	1.33	1.34	1.37	28,968	27,629	2,697	.002	.001	.175	-.07	-.08	-.03			
b. QIadvisor	1,799	4.73	4.58	4.68	4.52	.040	.012	.012	.018	1.69	1.79	1.78	1.80	2,117	2,120	2,543	.000	.265	.000	.08	.03	.11			
c. QIfaculty	1,919	4.98	5.04	5.04	4.99	.033	.009	.009	.014	1.46	1.46	1.49	1.49	28,639	27,363	13,648	.054	.098	.698	-.05	-.04	-.01			
d. QIstaff	1,646	4.48	4.53	4.57	4.43	.041	.012	.012	.018	1.68	1.74	1.74	1.74	1,932	1,938	2,295	.253	.039	.232	-.03	-.05	.03			
e. QIadmin	1,757	4.69	4.57	4.58	4.50	.038	.011	.011	.017	1.61	1.72	1.73	1.73	2,079	2,077	2,477	.005	.009	.000	.07	.06	.11			
14 a. empstudy	1,968	3.37	3.22	3.12	3.24	.016	.005	.005	.007	.72	.77	.79	.77	29,053	27,704	13,847	.000	.000	.000	.20	.32	.17			
b. SEacademic	1,966	2.53	2.48	2.55	2.45	.018	.005	.005	.008	.79	.83	.85	.83	2,290	2,326	2,738	.009	.199	.000	.06	-.03	.09			
c. SElearnsup	1,956	2.39	2.35	2.46	2.38	.019	.005	.006	.008	.84	.87	.90	.86	28,950	2,311	13,798	.079	.000	.592	.04	-.08	.01			
d. SEdiverse	1,955	2.17	2.18	2.26	2.17	.021	.006	.006	.009	.94	.95	.97	.96	28,945	2,288	13,790	.438	.000	.888	-.02	-.10	.00			
e. SEsocial	1,959	2.34	2.48	2.52	2.46	.019	.005	.006	.008	.85	.90	.92	.91	2,290	2,322	2,762	.000	.000	.000	-.16	-.20	-.14			
f. SEwellness	1,955	2.31	2.30	2.37	2.23	.019	.006	.006	.009	.86	.93	.94	.93	2,299	2,333	2,770	.674	.003	.000	.01	-.06	.09			

# NSSE 2020 Frequencies and Statistical Comparisons

## Detailed Statistics<sup>g</sup>

### University of Waterloo

#### Seniors

Variable Name	N		Mean			Standard error <sup>h</sup>				Standard deviation <sup>i</sup>				Degrees of freedom <sup>j</sup>				Significance <sup>k</sup>			Effect size <sup>e</sup>		
	UWaterloo	UWaterloo	U15	ON Universities	U6	UWaterloo	U15	ON Universities	U6	UWaterloo	U15	ON Universities	U6	Comparisons with:				Comparisons with:			Comparisons with:		
														U15	ON Universities	U6	U15	ON Universities	U6	U15	ON Universities	U6	
g. SEnonacad	1,947	1,78	1.74	1.81	1.71	.019	.005	.006	.008	.84	.85	.88	.85	2,244	2,287	2,652	.042	.303	.000	.05	-.02	.09	
h. SEactivities	1,947	2.05	2.24	2.25	2.19	.019	.005	.006	.008	.82	.89	.91	.89	2,284	2,322	2,744	.000	.000	.000	-.22	-.22	-.16	
i. SEevents	1,948	1.95	2.08	2.11	2.04	.019	.005	.006	.008	.82	.85	.89	.85	2,259	2,304	13,745	.000	.000	.000	-.15	-.17	-.11	
15 a. SBmyself	1,965	3.16	3.15	3.15	3.10	.016	.004	.005	.007	.69	.73	.73	.74	28,860	2,318	13,762	.624	.507	.002	.01	.01	.07	
b. SBvalued	1,956	2.55	2.56	2.57	2.47	.019	.005	.005	.008	.83	.86	.86	.87	28,838	2,287	2,709	.512	.253	.000	-.02	-.03	.09	
c. SBcommunity	1,962	2.68	2.68	2.69	2.63	.018	.005	.005	.008	.80	.84	.85	.86	2,284	2,315	2,760	.902	.578	.015	.00	-.01	.06	
16 a. tmprephrs	1,959	17.62	16.68	16.13	16.94	.213	.058	.059	.087	9.43	9.44	9.37	9.42	28,774	27,473	13,715	.000	.000	.003	.10	.16	.07	
b. tmcocurrhrs	1,939	5.38	4.83	4.84	5.35	.148	.041	.043	.065	6.53	6.73	6.85	7.01	28,695	27,394	2,730	.001	.001	.823	.08	.08	.01	
c. tmworkonhrs	1,950	2.84	2.47	2.61	2.70	.145	.036	.038	.056	6.39	5.86	5.99	6.04	2,194	2,219	13,691	.013	.116	.351	.06	.04	.02	
d. tmworkoffhrs	1,952	3.76	7.89	8.91	7.42	.170	.061	.067	.092	7.51	10.02	10.70	10.02	2,486	2,599	3,228	.000	.000	.000	-.42	-.49	-.38	
— tmworkhrs	1,941	6.52	10.33	11.48	10.10	.261	.070	.076	.108	11.50	11.41	12.12	11.71	2,226	2,282	2,651	.000	.000	.000	-.33	-.41	-.31	
e. tmservicehrs	1,957	2.95	3.02	3.35	3.27	.131	.032	.037	.053	5.77	5.30	5.83	5.70	2,203	27,411	13,710	.567	.003	.019	-.01	-.07	-.06	
f. tmrelaxhrs	1,950	14.16	12.47	12.69	12.90	.193	.050	.053	.078	8.54	8.26	8.47	8.43	2,223	27,395	2,620	.000	.000	.000	.20	.17	.15	
g. tmcarehrs	1,951	2.30	2.79	3.51	2.82	.133	.041	.047	.060	5.89	6.71	7.45	6.46	2,336	2,456	2,793	.001	.000	.000	-.07	-.16	-.08	
h. tmcommutehrs	1,952	5.76	7.17	7.43	7.26	.122	.038	.042	.060	5.40	6.21	6.68	6.47	2,344	2,432	2,963	.000	.000	.000	-.23	-.25	-.24	
17. reading	1,948	2.38	2.68	2.70	2.69	.027	.008	.008	.012	1.19	1.26	1.26	1.27	2,275	2,292	2,744	.000	.000	.000	-.24	-.25	-.25	
— tmreadinghrs	1,940	6.53	7.22	7.13	7.40	.138	.040	.041	.062	6.09	6.50	6.54	6.67	2,273	2,296	2,771	.000	.000	.000	-.11	-.09	-.13	
18 a. pgwrite	1,952	2.81	2.91	2.94	2.93	.020	.005	.005	.008	.87	.89	.87	.88	28,679	2,262	2,656	.000	.000	.000	-.11	-.15	-.14	
b. pgspeak	1,954	2.65	2.71	2.75	2.71	.021	.006	.006	.009	.92	.93	.92	.93	28,670	27,364	13,676	.008	.000	.006	-.06	-.11	-.07	
c. pgthink	1,956	3.25	3.25	3.25	3.28	.017	.005	.005	.007	.76	.78	.78	.77	28,656	27,340	13,652	.947	.941	.114	.00	.00	-.04	
d. pganalyze	1,953	3.06	2.78	2.76	2.81	.020	.006	.006	.009	.88	.99	1.00	.99	2,331	2,354	2,845	.000	.000	.000	.28	.30	.26	
e. pgwork	1,954	2.97	2.54	2.54	2.46	.021	.006	.006	.009	.93	.99	.99	.99	2,294	2,307	2,755	.000	.000	.000	.43	.43	.52	
f. pgothers	1,950	2.86	2.80	2.84	2.78	.020	.005	.006	.008	.87	.88	.88	.89	2,254	27,344	2,682	.009	.520	.000	.06	.02	.09	
g. pgvalues	1,950	2.50	2.55	2.60	2.53	.022	.006	.006	.009	.96	.96	.97	.97	28,647	27,329	13,653	.050	.000	.295	-.05	-.10	-.03	
h. pgdiverse	1,951	2.51	2.60	2.68	2.61	.022	.006	.006	.009	.97	.96	.97	.97	28,650	27,350	13,661	.000	.000	.000	-.09	-.17	-.10	
i. pgprobsolve	1,950	2.79	2.61	2.63	2.59	.021	.006	.006	.009	.91	.93	.94	.94	2,257	2,280	2,681	.000	.000	.000	.19	.17	.21	
j. pgcitizen	1,956	2.38	2.50	2.54	2.48	.022	.006	.006	.009	.97	.96	.97	.97	28,678	27,371	13,663	.000	.000	.000	-.13	-.17	-.10	
19. evalexp	1,969	3.06	2.96	2.95	2.94	.018	.005	.005	.008	.78	.80	.82	.82	28,769	2,315	2,756	.000	.000	.000	.13	.14	.15	
20. sameinst	1,969	3.12	3.05	3.00	3.01	.018	.005	.005	.008	.81	.85	.87	.88	28,833	27,497	13,739	.000	.000	.000	.08	.14	.13	

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### 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" or "Yes."
- g. Statistics are weighted by institution-reported sex and enrollment status (and institution size for comparison groups).
- h. Standard error of the mean for ordered and continuous variables; standard error of the proportion for items indicating "Done or in progress" (High-Impact Practices). The 95% confidence interval is equal to the sample mean plus or minus 1.96 times the standard error of the mean.
- i. A measure of the amount individual scores deviate from the mean of all the scores in the distribution.
- j. Degrees of freedom used to compute the  $t$ -tests. Values differ from  $N$ s due to weighting and whether equal variances were assumed.
- k. Statistical comparisons are two-tailed independent  $t$ -tests or  $z$ -tests. Statistical significance represents the probability that the difference between your students' mean and that of the comparison group is due to chance.
- l. Mean represents the proportion who responded "Done or in progress" or "Yes."