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# NSSE 2020

## Frequencies and Statistical Comparisons

Virginia Polytechnic Institute and State University

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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

## Virginia Polytechnic Institute and State University

### First-Year Students

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

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

*Your first-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>							
				Virginia Tech		Carnegie Class		SCHEV Peers		NSSE 2020		Virginia Tech	Carnegie Class	SCHEV Peers	NSSE 2020				
				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	63	5	2,382	7	376	6	21,968	10	<b>2.8</b>	2.7 ***	.12	2.7 ***	.11	2.6 ***	.17	
		2	Sometimes	406	33	12,468	36	2,411	38	80,557	35								
		3	Often	480	40	13,095	37	2,526	37	83,620	36								
		4	Very often	267	22	6,813	20	1,250	20	46,186	19								
		Total		1,216	100	34,758	100	6,563	100	232,331	100								
h. Given a course presentation	present	1	Never	212	17	8,049	23	1,683	25	61,930	26	<b>2.2</b>	2.1 **	.09	2.1 ***	.20	2.2 **	.07	
		2	Sometimes	616	51	16,239	47	3,272	51	97,329	42								
		3	Often	299	25	7,387	21	1,192	18	50,951	22								
		4	Very often	85	7	3,018	9	412	6	21,796	10								
		Total		1,212	100	34,693	100	6,559	100	232,006	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	86	7	2,746	8	447	7	19,547	9	<b>2.5</b>	2.6	-.04	2.6	-.05	2.6	-.04	
		2	Sometimes	505	44	13,907	41	2,733	42	89,270	39								
		3	Often	446	38	12,712	36	2,461	37	85,657	37								
		4	Very often	138	12	4,851	14	834	14	34,158	15								
		Total		1,175	100	34,216	100	6,475	100	228,632	100								
b. Connected your learning to societal problems or issues	RIsocietal	1	Never	111	10	3,261	11	613	10	23,150	11	<b>2.4</b>	2.5 ***	-.11	2.5 **	-.08	2.5 ***	-.11	
		2	Sometimes	528	47	13,415	40	2,674	42	87,677	39								
		3	Often	391	33	12,154	35	2,286	35	80,306	35								
		4	Very often	128	11	5,117	15	848	13	35,638	15								
		Total		1,158	100	33,947	100	6,421	100	226,771	100								
c. Included diverse perspectives (political, religious, racial/ethnic, gender, etc.) in course discussions or assignments	RIdiverse	1	Never	142	13	3,567	12	732	13	32,033	15	<b>2.4</b>	2.5 ***	-.18	2.5 ***	-.12	2.5 ***	-.11	
		2	Sometimes	513	46	12,842	38	2,599	40	84,439	38								
		3	Often	346	30	11,647	33	2,140	34	72,672	32								
		4	Very often	128	11	5,602	16	905	14	35,462	16								
		Total		1,129	100	33,658	100	6,376	100	224,606	100								
d. Examined the strengths and weaknesses of your own views on a topic or issue	RIownview	1	Never	51	5	1,554	5	345	6	12,760	6	<b>2.7</b>	2.8 ***	-.12	2.7	-.06	2.7 **	-.09	
		2	Sometimes	430	39	10,917	33	2,142	34	73,999	33								
		3	Often	466	42	14,921	44	2,830	44	97,236	43								
		4	Very often	153	14	5,908	18	1,004	16	38,033	18								
		Total		1,100	100	33,300	100	6,321	100	222,028	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

## Virginia Polytechnic Institute and State University

### First-Year Students

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

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

*Your first-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>							
				Virginia Tech		Carnegie Class		SCHEV Peers		NSSE 2020		Virginia Tech	Carnegie Class	SCHEV Peers	NSSE 2020				
				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	37	4	933	3	182	4	7,451	4	<b>2.8</b>	2.9 *** ▽	-0.13	2.9	-0.06	2.9 *** ▽	-0.10	
		2	Sometimes	335	32	8,700	27	1,809	29	59,446	27								
		3	Often	485	45	15,483	46	2,831	45	101,358	46								
		4	Very often	205	20	7,680	24	1,389	22	50,343	23								
		Total		1,062	100	32,796	100	6,211	100	218,598	100								
f. Learned something that changed the way you understand an issue or concept	Rlnewview	1	Never	26	3	882	3	145	3	6,012	3	<b>2.8</b>	2.8	-0.05	2.8	-0.04	2.9	-0.06	
		2	Sometimes	333	33	9,639	30	1,892	31	63,197	30								
		3	Often	482	46	14,887	45	2,886	46	99,288	45								
		4	Very often	193	19	6,898	21	1,208	20	46,789	22								
		Total		1,034	100	32,306	100	6,131	100	215,286	100								
g. Connected ideas from your courses to your prior experiences and knowledge	Rlconnect	1	Never	13	1	421	1	77	1	3,147	2	<b>3.0</b>	3.0	-0.01	3.1	-0.03	3.0	.01	
		2	Sometimes	199	20	6,578	21	1,186	20	44,163	21								
		3	Often	525	52	16,240	50	3,204	51	106,594	49								
		4	Very often	264	26	8,715	28	1,605	28	58,779	27								
		Total		1,001	100	31,954	100	6,072	100	212,683	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	177	18	6,347	20	1,031	19	60,782	27	<b>2.3</b>	2.3	-0.01	2.3	.01	2.2 *** △	.11	
		2	Sometimes	487	49	14,024	44	2,782	47	84,529	40								
		3	Often	222	22	7,598	24	1,519	23	44,240	21								
		4	Very often	118	11	3,947	12	742	11	22,973	11								
		Total		1,004	100	31,916	100	6,074	100	212,524	100								
b. Worked with a faculty member on activities other than coursework (committees, student groups, etc.)	SFotherwork	1	Never	478	48	15,458	49	2,671	47	116,031	54	<b>1.8</b>	1.8	-0.01	1.8	-0.02	1.7 * △	.07	
		2	Sometimes	325	33	9,814	31	2,087	34	58,274	28								
		3	Often	138	13	4,488	14	919	13	25,705	12								
		4	Very often	52	5	1,951	6	356	6	11,430	6								
		Total		993	100	31,711	100	6,033	100	211,440	100								
c. Discussed course topics, ideas, or concepts with a faculty member outside of class	SFdiscuss	1	Never	305	31	10,452	34	1,912	32	76,302	36	<b>2.0</b>	2.0	.05	2.0 *	.08	1.9 * △	.08	
		2	Sometimes	419	44	13,112	42	2,685	46	83,444	40								
		3	Often	178	19	5,701	18	1,038	16	35,740	17								
		4	Very often	67	7	2,136	7	336	6	14,033	7								
		Total		969	100	31,401	100	5,971	100	209,519	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

## Virginia Polytechnic Institute and State University

### First-Year Students

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

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

*Your first-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>						
				Virginia Tech		Carnegie Class		SCHEV Peers		NSSE 2020		Virginia Tech	Carnegie Class	SCHEV Peers	NSSE 2020			
				Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size <sup>e</sup>	Mean	Effect size <sup>e</sup>	Mean	Effect size <sup>e</sup>
d. Discussed your academic performance with a faculty member	SFperform	1	Never	288	30	9,095	30	1,779	32	71,126	32	<b>2.0</b>	2.0	-02	2.0	.07	2.0	.01
		2	Sometimes	441	46	13,947	44	2,764	46	85,798	41							
		3	Often	170	17	6,077	19	1,074	17	37,893	19							
		4	Very often	66	7	2,316	7	350	6	14,774	7							
		Total		965	100	31,435	100	5,967	100	209,591	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	38	4	924	3	175	4	7,772	4	<b>2.9</b>	3.0 ***	-013	2.9	-006	2.9 **	-009
		2	Some	275	30	7,483	24	1,462	26	51,813	25							
		3	Quite a bit	419	43	14,306	46	2,793	46	92,969	45							
		4	Very much	217	23	8,482	27	1,507	24	55,533	26							
		Total		949	100	31,195	100	5,937	100	208,087	100							
b. Applying facts, theories, or methods to practical problems or new situations	HOapply	1	Very little	21	2	926	3	145	2	7,445	4	<b>3.0</b>	3.0	.02	3.0	-004	2.9 ***	.11
		2	Some	212	23	7,201	23	1,379	21	51,937	25							
		3	Quite a bit	450	47	14,494	46	2,813	47	95,658	46							
		4	Very much	261	28	8,406	28	1,582	30	51,816	25							
		Total		944	100	31,027	100	5,919	100	206,856	100							
c. Analyzing an idea, experience, or line of reasoning in depth by examining its parts	HOanalyze	1	Very little	36	4	981	3	185	4	8,172	4	<b>2.9</b>	2.9 *	-007	2.9	-004	2.9	.01
		2	Some	257	27	7,755	25	1,608	26	55,523	27							
		3	Quite a bit	412	44	13,947	45	2,657	45	91,239	44							
		4	Very much	230	25	8,073	27	1,417	26	49,742	24							
		Total		935	100	30,756	100	5,867	100	204,676	100							
d. Evaluating a point of view, decision, or information source	HOevaluate	1	Very little	73	8	1,344	5	325	6	10,566	5	<b>2.8</b>	2.9 ***	-013	2.8	.01	2.8 **	-010
		2	Some	271	29	8,223	27	1,767	31	57,181	28							
		3	Quite a bit	379	41	13,703	44	2,625	43	89,954	44							
		4	Very much	202	22	7,355	24	1,133	19	45,887	23							
		Total		925	100	30,625	100	5,850	100	203,588	100							
e. Forming a new idea or understanding from various pieces of information	HOform	1	Very little	38	4	1,152	4	233	4	9,189	5	<b>2.8</b>	2.9 **	-010	2.8	-003	2.9	-006
		2	Some	285	31	7,958	26	1,670	29	55,778	28							
		3	Quite a bit	400	44	14,227	46	2,755	47	92,643	46							
		4	Very much	187	20	7,130	23	1,163	20	44,969	22							
		Total		910	100	30,467	100	5,821	100	202,579	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

## Virginia Polytechnic Institute and State University

### First-Year Students

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

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

*Your first-year students compared with*

Item wording or description	Variable name <sup>c</sup>	Values <sup>d</sup>	Response options	Virginia Tech				Carnegie Class				SCHEV Peers				NSSE 2020				Virginia Tech		Carnegie Class		SCHEV Peers		NSSE 2020	
				Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Mean	Effect size <sup>e</sup>	Mean	Effect size <sup>e</sup>
<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	12	1	579	2	100	2	4,657	2	<b>3.1</b>	3.1 **	.09	3.0 **	.11	3.0 ***	.12	△	△	△						
		2	Some	141	16	6,264	20	1,213	21	43,235	22																
		3	Quite a bit	460	51	14,411	47	2,801	48	94,564	46																
		4	Very much	282	31	8,970	30	1,643	29	58,674	30																
		Total		895	100	30,224	100	5,757	100	201,130	100																
b. Taught course sessions in an organized way	ETorganize	1	Very little	21	2	1,024	4	180	3	8,352	5	<b>3.1</b>	3.0 ***	.21	3.0 ***	.21	3.0 ***	.24	△	△	△						
		2	Some	146	16	6,686	22	1,263	22	45,049	22																
		3	Quite a bit	404	45	14,368	47	2,848	49	93,952	46																
		4	Very much	323	36	8,057	27	1,461	26	53,051	27																
		Total		894	100	30,135	100	5,752	100	200,404	100																
c. Used examples or illustrations to explain difficult points	ETexample	1	Very little	13	2	819	3	143	3	6,657	4	<b>3.1</b>	3.0 ***	.12	3.0 **	.11	3.0 ***	.15	△	△	△						
		2	Some	165	18	6,620	22	1,257	20	44,349	22																
		3	Quite a bit	408	46	13,724	45	2,668	47	88,889	44																
		4	Very much	308	34	8,922	30	1,670	30	60,240	30																
		Total		894	100	30,085	100	5,738	100	200,135	100																
d. Provided feedback on a draft or work in progress	ETdraftfb	1	Very little	83	9	2,684	9	648	13	21,689	11	<b>2.7</b>	2.7	.00	2.6 ***	.16	2.7	.00	△	△	△						
		2	Some	298	33	9,855	33	2,097	36	64,508	32																
		3	Quite a bit	320	37	11,175	37	2,030	34	70,355	35																
		4	Very much	189	21	6,306	21	951	17	43,061	22																
		Total		890	100	30,020	100	5,726	100	199,613	100																
e. Provided prompt and detailed feedback on tests or completed assignments	ETfeedback	1	Very little	95	10	2,925	10	554	10	21,322	10	<b>2.6</b>	2.6	-.03	2.6	.03	2.7	-.04	△	△	△						
		2	Some	311	35	10,542	35	2,151	37	68,235	34																
		3	Quite a bit	322	37	11,098	37	2,159	38	72,260	36																
		4	Very much	156	18	5,424	18	854	15	37,407	20																
		Total		884	100	29,989	100	5,718	100	199,224	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.

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### First-Year Students

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

*Your first-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>						
				Virginia Tech		Carnegie Class		SCHEV Peers		NSSE 2020		Virginia Tech	Carnegie Class	SCHEV Peers	NSSE 2020			
				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	63	7	2,668	8	495	8	25,857	12	<b>2.7</b>	2.7 *	.07	2.6 *	.08	2.5 ***	.21
		2	Sometimes	294	34	10,490	35	2,090	37	74,251	37							
		3	Often	341	41	11,601	39	2,217	38	69,094	36							
		4	Very often	156	19	4,803	17	853	17	27,360	15							
		Total		854	100	29,562	100	5,655	100	196,562	100							
b. Used numerical information to examine a real-world problem or issue (unemployment, climate change, public health, etc.)	QRproblem	1	Never	134	15	5,466	18	1,130	20	43,337	21	<b>2.4</b>	2.4	.04	2.3 **	.10	2.3 ***	.13
		2	Sometimes	352	42	11,378	39	2,261	40	77,767	40							
		3	Often	261	31	8,927	30	1,668	29	53,936	28							
		4	Very often	103	12	3,650	13	567	11	20,396	11							
		Total		850	100	29,421	100	5,626	100	195,436	100							
c. Evaluated what others have concluded from numerical information	QRevaluate	1	Never	108	12	4,510	15	849	14	39,642	20	<b>2.4</b>	2.4	.03	2.4	.04	2.3 ***	.16
		2	Sometimes	358	43	11,949	41	2,390	42	80,917	41							
		3	Often	288	34	9,492	32	1,820	32	55,943	29							
		4	Very often	90	11	3,400	12	557	11	18,227	10							
		Total		844	100	29,351	100	5,616	100	194,729	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	57	6	2,128	7	557	8	12,765	7	<b>6.3</b>	6.0	.04	6.0	.05	6.4	-.02
		1.5	1-2	187	21	6,144	22	1,422	24	38,504	20							
		4	3-5	274	33	9,603	33	1,678	30	62,512	32							
		8	6-10	183	22	6,415	22	1,082	20	44,175	22							
		13	11-15	78	10	2,802	9	476	9	19,458	10							
		18	16-20	26	3	1,033	3	199	4	7,780	4							
		23	More than 20	36	4	1,114	4	183	4	8,676	4							
		Total		841	100	29,239	100	5,597	100	193,870	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	278	32	11,105	39	2,635	43	64,342	35	<b>2.3</b>	2.2	.04	2.1 *	.07	2.6	-.06
		1.5	1-2	333	40	10,191	35	1,826	35	67,805	34							
		4	3-5	161	19	4,913	16	662	13	36,756	18							
		8	6-10	44	5	1,909	6	265	5	15,991	8							
		13	11-15	15	2	676	2	123	3	5,296	3							
		18	16-20	3	0	149	1	36	1	1,342	1							
		23	More than 20	8	1	202	1	40	1	1,601	1							
Total		842	100	29,145	100	5,587	100	193,133	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

## Virginia Polytechnic Institute and State University

### First-Year Students

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

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

*Your first-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>							
				Virginia Tech		Carnegie Class		SCHEV Peers		NSSE 2020		Virginia Tech	Carnegie Class	SCHEV Peers	NSSE 2020				
				Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size <sup>e</sup>	Mean	Effect size <sup>e</sup>	Mean	Effect size <sup>e</sup>	
c. 11 pages or more	wrlongnum	0	None	613	72	21,941	75	4,483	77	136,834	72	<b>.9</b>	1.0	-.03	1.0	-.01	1.2 **	▽	
	(Recorded version of wrlong created by NSSE. Values are estimated number of papers, reports, etc.)	1.5	1-2	165	20	4,651	16	694	14	34,388	17								
		4	3-5	35	4	1,134	4	168	3	10,230	5								
		8	6-10	13	2	622	2	106	2	5,551	3								
		13	11-15	8	1	554	2	87	2	3,949	2								
		18	16-20	1	0	115	0	28	1	994	1								
		23	More than 20	6	1	180	1	31	1	1,486	1								
	Total			841	100	29,197	100	5,597	100	193,432	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>51.1</b>	50.5	.01	49.0	.03	57.7 **	▽	
<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	20	2	857	3	173	3	9,594	5	<b>3.2</b>	3.2	.02	3.1 **	.11	3.0 ***	△	
		2	Sometimes	165	20	6,040	21	1,401	24	46,863	24								
		3	Often	283	34	9,527	32	1,937	34	60,456	31								
		4	Very often	373	44	12,735	44	2,076	39	76,471	39								
			Total	841	100	29,159	100	5,587	100	193,384	100								
b. People from an economic background other than your own	DDeconomic	1	Never	25	3	873	3	157	3	9,672	5	<b>3.1</b>	3.1	-.04	3.1	.03	3.0 **	△	
		2	Sometimes	182	22	6,287	22	1,312	24	48,180	25								
		3	Often	329	40	10,591	36	2,181	38	68,796	36								
		4	Very often	303	36	11,328	39	1,925	35	66,166	34								
			Total	839	100	29,079	100	5,575	100	192,814	100								
c. People with religious beliefs other than your own	DDreligion	1	Never	33	4	1,285	4	216	4	14,286	7	<b>3.1</b>	3.1	.05	3.0 *	.09	2.9 ***	△	
		2	Sometimes	181	22	6,745	23	1,381	25	52,011	27								
		3	Often	270	33	9,818	33	2,018	36	61,215	32								
		4	Very often	354	42	11,239	39	1,967	36	65,372	34								
			Total	838	100	29,087	100	5,582	100	192,884	100								
d. People with political views other than your own	DDpolitical	1	Never	25	3	1,733	6	255	5	15,302	8	<b>3.1</b>	2.9 ***	.14	2.9 ***	.16	2.8 ***	△	
		2	Sometimes	217	25	8,494	28	1,483	30	60,350	31								
		3	Often	274	33	9,267	32	1,982	34	61,233	32								
		4	Very often	323	38	9,616	34	1,864	32	56,147	30								
			Total	839	100	29,110	100	5,584	100	193,032	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

## Virginia Polytechnic Institute and State University

### First-Year Students

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

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

*Your first-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>							
				Virginia Tech		Carnegie Class		SCHEV Peers		NSSE 2020		Virginia Tech		Carnegie Class		SCHEV Peers		NSSE 2020	
				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	14	2	549	2	128	3	4,464	2	<b>2.9</b>	3.0 *	-0.07	2.9	-0.01	3.0	-0.05	
		2	Sometimes	209	26	6,659	23	1,364	26	45,035	24								
		3	Often	415	50	13,913	48	2,706	46	91,062	47								
		4	Very often	190	23	7,786	27	1,349	26	51,192	26								
		Total		828	100	28,907	100	5,547	100	191,753	100								
b. Reviewed your notes after class	LSnotes	1	Never	29	3	1,203	4	271	5	10,437	6	<b>2.9</b>	2.9	.00	2.8 **	.11	2.9	.06	
		2	Sometimes	255	31	8,472	30	1,813	34	60,244	31								
		3	Often	297	36	10,489	36	1,964	34	67,131	35								
		4	Very often	248	29	8,731	30	1,499	26	53,681	28								
		Total		829	100	28,895	100	5,547	100	191,493	100								
c. Summarized what you learned in class or from course materials	LSsummary	1	Never	41	5	1,532	6	334	6	11,658	6	<b>2.8</b>	2.8	-0.07	2.7	.04	2.8	-0.04	
		2	Sometimes	291	35	8,647	30	1,853	34	59,059	31								
		3	Often	306	38	11,335	39	2,169	38	72,772	38								
		4	Very often	189	22	7,403	25	1,191	21	48,161	25								
		Total		827	100	28,917	100	5,547	100	191,650	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	3	0	214	1	45	1	1,467	1	<b>5.5</b>	5.4 ***	.12	5.4	.07	5.4 ***	.11	
		2		7	1	310	1	35	1	2,369	1								
		3		29	4	1,521	5	249	4	9,053	5								
		4		65	8	3,568	12	619	10	23,448	13								
		5		296	36	9,917	34	1,970	34	64,188	33								
		6		242	30	7,403	26	1,529	28	48,311	25								
		7	Very much	176	21	5,798	21	1,076	21	41,658	22								
		Total		818	100	28,731	100	5,523	100	190,494	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	65	8	2,803	10	466	9	28,139	15	<b>9%</b>	8%	.04	10%	-0.03	7%	.05	
		(Means indicate the percentage who responded "Done or in progress.")	Do not plan to do	25	3	1,264	5	240	4	11,394	6								
		Plan to do	657	80	22,458	77	4,349	77	135,689	71									
		Done or in progress	69	9	2,156	8	459	10	14,663	7									
		Total	816	100	28,681	100	5,514	100	189,885	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

## Virginia Polytechnic Institute and State University

### First-Year Students

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

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

*Your first-year students compared with*

Item wording or description	Variable name <sup>c</sup>	Values <sup>d</sup>	Response options	Virginia Tech				Carnegie Class				SCHEV Peers				NSSE 2020				Virginia Tech		Carnegie Class		SCHEV Peers		NSSE 2020	
				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>	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	189	23	7,006	25	1,193	22	54,531	29	<b>10%</b>	11%	-03	15% ***	-0.16	9%	.03	▽								
			Do not plan to do	128	17	5,639	20	884	16	50,514	27																
			Plan to do	412	50	12,831	44	2,589	47	67,193	35																
			Done or in progress	85	10	3,138	11	836	15	17,107	9																
			Total	814	100	28,614	100	5,502	100	189,345	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	171	21	7,819	27	1,175	24	64,732	34	<b>21%</b>	17% **	.11	25% *	-0.09	11% ***	.27	△								
			Do not plan to do	316	39	8,256	30	1,622	32	52,444	28																
			Plan to do	152	19	7,788	26	1,155	19	50,944	27																
			Done or in progress	175	21	4,685	17	1,537	25	20,544	11																
			Total	814	100	28,548	100	5,489	100	188,664	100																
d. Participate in a study abroad program	abroad	(Means indicate the percentage who responded "Done or in progress.")	Have not decided	213	26	7,256	26	1,340	27	54,860	29	<b>4%</b>	3% *	.08	4%	.02	3% **	.08	△								
			Do not plan to do	217	29	6,865	25	1,072	21	54,804	30																
			Plan to do	347	41	13,655	46	2,886	49	74,173	38																
			Done or in progress	34	4	749	3	190	4	4,774	3																
			Total	811	100	28,525	100	5,488	100	188,611	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	267	33	9,553	34	1,855	33	71,764	38	<b>6%</b>	6%	.02	8%	-0.06	4% **	.09	△								
			Do not plan to do	150	18	5,796	20	1,146	18	44,523	24																
			Plan to do	347	43	11,619	40	2,088	41	64,837	34																
			Done or in progress	50	6	1,562	6	403	8	7,508	4																
			Total	814	100	28,530	100	5,492	100	188,632	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	244	30	9,491	33	1,908	35	67,735	36	<b>1%</b>	2% *	-0.09	2%	-0.07	2% *	-0.09	▽								
			Do not plan to do	55	7	3,233	11	597	11	25,892	14																
			Plan to do	502	62	15,209	53	2,880	52	91,273	48																
			Done or in progress	8	1	609	2	110	2	3,660	2																
			Total	809	100	28,542	100	5,495	100	188,560	100																
<b>12. About how many of your courses at this institution have included a community-based project (service-learning)?</b>																											
	servcourse		1 None	410	51	15,049	52	3,030	59	97,752	51	<b>1.5</b>	1.6	-0.03	1.5 *	.09	1.6 *	-0.07	△								
			2 Some	349	44	11,225	40	2,022	34	73,285	40																
			3 Most	39	5	1,731	6	361	5	13,482	7																
			4 All	4	1	373	1	66	1	2,951	2																
			Total	802	100	28,378	100	5,479	100	187,470	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

## Virginia Polytechnic Institute and State University

### First-Year Students

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

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

*Your first-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>						
				Virginia Tech		Carnegie Class		SCHEV Peers		NSSE 2020		Virginia Tech	Carnegie Class	SCHEV Peers	NSSE 2020			
				Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size <sup>e</sup>	Mean	Effect size <sup>e</sup>	Mean	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	4	0	380	1	58	1	2,981	2	<b>5.8</b>	5.5 ***	.23	5.5 ***	.24	5.4 ***	.26
		2		10	1	462	2	86	2	3,675	2							
		3		23	3	1,182	4	195	3	8,679	5							
		4		50	6	3,084	11	590	10	21,250	11							
		5		184	23	7,779	27	1,619	29	49,031	26							
		6		268	33	8,527	30	1,650	31	52,235	27							
		7	Excellent	259	32	6,833	24	1,251	23	46,688	25							
		—	Not applicable	3	0	162	1	21	0	2,955	2							
			Total	801	100	28,409	100	5,470	100	187,494	100							
b. Academic advisors	QIadvisor	1	Poor	11	1	692	3	115	2	5,851	3	<b>5.7</b>	5.3 ***	.23	5.4 ***	.22	5.3 ***	.26
		2		14	2	1,007	3	170	3	7,218	4							
		3		37	4	1,913	7	356	6	12,512	7							
		4		66	8	3,800	13	688	13	23,271	12							
		5		165	20	6,201	21	1,126	21	37,188	20							
		6		211	26	6,397	23	1,313	25	37,542	20							
		7	Excellent	269	34	7,734	28	1,629	28	47,161	26							
		—	Not applicable	28	4	619	2	60	1	16,447	8							
			Total	801	100	28,363	100	5,457	100	187,190	100							
c. Faculty	QIfaculty	1	Poor	8	1	376	1	54	1	3,693	2	<b>5.6</b>	5.3 ***	.18	5.3 ***	.18	5.3 ***	.19
		2		5	1	610	2	103	2	4,958	3							
		3		23	3	1,533	5	279	5	10,530	6							
		4		86	11	3,927	13	720	13	24,863	13							
		5		220	28	7,955	28	1,605	28	48,723	26							
		6		271	33	8,175	29	1,652	31	50,706	27							
		7	Excellent	180	23	5,414	20	998	18	39,072	22							
		—	Not applicable	7	1	359	1	48	1	4,613	2							
			Total	800	100	28,349	100	5,459	100	187,158	100							

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# NSSE 2020 Frequencies and Statistical Comparisons

## Virginia Polytechnic Institute and State University

### First-Year Students

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

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

*Your first-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>							
				Virginia Tech		Carnegie Class		SCHEV Peers		NSSE 2020		Virginia Tech	Carnegie Class	SCHEV Peers	NSSE 2020				
				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	10	1	708	3	97	2	6,426	4	<b>5.4</b>	5.2 ***	.18	5.2 ***	.14	5.1 ***	.20	
		2		15	2	915	3	152	3	6,518	3								
		3		37	5	1,785	6	308	6	11,639	6								
		4		93	12	4,008	14	776	14	23,323	12								
		5		182	22	6,644	23	1,339	25	38,376	20								
		6		209	26	6,448	23	1,340	25	37,870	20								
		7	Excellent	182	23	5,490	20	1,136	20	35,887	20								
		—	Not applicable	73	9	2,362	9	312	6	27,057	14								
	Total			801	100	28,360	100	5,460	100	187,096	100								
e. Other administrative staff and offices (registrar, financial aid, etc.)	QIadmin	1	Poor	14	2	865	3	110	2	6,708	4	<b>5.2</b>	5.0 **	.12	5.2	.06	5.1 **	.10	
		2		24	3	1,051	4	153	3	7,432	4								
		3		42	5	2,032	7	299	5	12,686	7								
		4		106	14	4,314	15	764	14	24,756	13								
		5		171	21	6,495	23	1,252	22	39,362	21								
		6		164	20	5,913	21	1,215	22	37,871	20								
		7	Excellent	158	20	4,836	17	988	17	35,573	20								
		—	Not applicable	121	15	2,870	11	677	15	22,848	12								
	Total			800	100	28,376	100	5,458	100	187,236	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	6	1	357	1	71	1	2,939	2	<b>3.1</b>	3.1	-.03	3.2	-.07	3.1	.02	
		2	Some	130	16	4,993	17	961	17	33,863	19								
		3	Quite a bit	423	53	13,616	48	2,684	46	88,246	47								
		4	Very much	237	30	9,304	34	1,731	36	61,322	32								
			Total			796	100	28,270	100	5,447	100								186,370
b. Providing support to help students succeed academically	SEacademic	1	Very little	25	3	830	3	129	3	7,769	4	<b>3.1</b>	3.0	.07	3.0	.07	3.0 ***	.15	
		2	Some	140	18	6,113	21	1,127	22	43,770	23								
		3	Quite a bit	354	45	12,659	44	2,465	44	80,737	43								
		4	Very much	273	34	8,588	31	1,709	31	53,593	29								
			Total			792	100	28,190	100	5,430	100								185,869
c. Using learning support services (tutoring services, writing center, etc.)	SElearnsup	1	Very little	44	6	1,471	5	232	4	12,760	7	<b>3.0</b>	3.1 **	-.10	3.1 *	-.08	3.0	.00	
		2	Some	161	21	5,195	18	1,035	21	39,331	21								
		3	Quite a bit	325	42	11,392	40	2,230	40	71,591	38								
		4	Very much	260	31	10,127	37	1,936	35	62,014	34								
			Total			790	100	28,185	100	5,433	100								185,696

\*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

## Virginia Polytechnic Institute and State University

### First-Year Students

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

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

*Your first-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>						
				Virginia Tech		Carnegie Class		SCHEV Peers		NSSE 2020		Virginia Tech	Carnegie Class	SCHEV Peers	NSSE 2020			
				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	58	7	2,388	9	489	9	24,718	13	<b>2.9</b>	2.8	.04	2.8 ***	.11	2.7 ***	.19
		2	Some	218	28	7,720	27	1,596	30	55,771	30							
		3	Quite a bit	291	37	10,576	37	2,025	36	63,184	34							
		4	Very much	225	28	7,467	27	1,312	24	41,794	23							
		Total		792	100	28,151	100	5,422	100	185,467	100							
e. Providing opportunities to be involved socially	SEsocial	1	Very little	22	3	1,253	5	177	4	13,689	7	<b>3.1</b>	3.0 ***	.14	3.0	.08	2.9 ***	.27
		2	Some	156	20	6,356	23	1,125	21	48,067	26							
		3	Quite a bit	319	40	11,808	41	2,323	42	73,659	40							
		4	Very much	293	37	8,705	31	1,792	33	49,734	27							
		Total		790	100	28,122	100	5,417	100	185,149	100							
f. Providing support for your overall well-being (recreation, health care, counseling, etc.)	SEwellness	1	Very little	31	4	1,623	6	273	6	16,214	9	<b>3.1</b>	3.0 ***	.15	3.0 ***	.15	2.8 ***	.28
		2	Some	151	19	6,509	23	1,171	22	48,655	26							
		3	Quite a bit	315	40	11,643	41	2,293	42	71,166	39							
		4	Very much	289	36	8,304	30	1,680	30	48,907	27							
		Total		786	100	28,079	100	5,417	100	184,942	100							
g. Helping you manage your non-academic responsibilities (work, family, etc.)	SEnonacad	1	Very little	134	17	5,632	21	1,062	21	46,006	24	<b>2.4</b>	2.3	.06	2.3 ***	.15	2.3 ***	.14
		2	Some	317	40	10,512	37	2,182	42	67,710	36							
		3	Quite a bit	219	28	8,067	28	1,526	25	48,246	26							
		4	Very much	117	15	3,851	14	636	11	22,790	13							
		Total		787	100	28,062	100	5,406	100	184,752	100							
h. Attending campus activities and events (performing arts, athletic events, etc.)	SEactivities	1	Very little	26	3	1,979	7	257	5	22,783	13	<b>3.1</b>	2.9 ***	.20	2.9 ***	.16	2.7 ***	.39
		2	Some	164	21	7,227	25	1,344	26	53,757	29							
		3	Quite a bit	332	43	11,462	40	2,316	42	67,515	36							
		4	Very much	263	33	7,371	27	1,491	27	40,457	22							
		Total		785	100	28,039	100	5,408	100	184,512	100							
i. Attending events that address important social, economic, or political issues	SEevents	1	Very little	121	15	4,143	15	710	15	34,012	19	<b>2.4</b>	2.5 *	-.08	2.5	-.06	2.4	-.01
		2	Some	326	42	10,402	37	2,048	39	67,620	36							
		3	Quite a bit	236	30	9,127	32	1,849	32	56,507	30							
		4	Very much	104	13	4,369	16	803	14	26,445	15							
		Total		787	100	28,041	100	5,410	100	184,584	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

## Virginia Polytechnic Institute and State University

### First-Year Students

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

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

*Your first-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>						
				Virginia Tech		Carnegie Class		SCHEV Peers		NSSE 2020		Virginia Tech	Carnegie Class	SCHEV Peers	NSSE 2020			
				Count	%	Count	%	Count	%	Count	%	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  <i>(Comparison data are limited to NSSE 2020.)</i>	1	Strongly disagree	13	2	440	2	40	2	3,723	2	<b>3.4</b>	3.3 ***	.18	3.3 **	.13	3.2 ***	.24
		2	Disagree	32	4	2,029	7	194	6	15,200	8							
		3	Agree	358	46	14,885	52	1,509	51	99,053	53							
		4	Strongly agree	382	48	10,657	39	1,121	42	66,513	37							
		Total		785	100	28,011	100	2,864	100	184,489	100							
b. I feel valued by this institution.	SBvalued  <i>(Comparison data are limited to NSSE 2020.)</i>	1	Strongly disagree	27	4	975	4	77	3	7,364	4	<b>3.1</b>	3.0 ***	.16	3.0 *	.09	3.0 ***	.18
		2	Disagree	108	14	5,168	18	476	17	34,366	19							
		3	Agree	409	52	15,650	55	1,649	56	102,436	55							
		4	Strongly agree	240	30	6,203	23	659	24	40,100	22							
		Total		784	100	27,996	100	2,861	100	184,266	100							
c. I feel like part of the community at this institution.	SBcommunity  <i>(Comparison data are limited to NSSE 2020.)</i>	1	Strongly disagree	22	3	916	4	71	2	7,716	4	<b>3.2</b>	3.0 ***	.30	3.1 ***	.20	3.0 ***	.36
		2	Disagree	70	9	4,726	17	435	15	34,792	19							
		3	Agree	376	47	15,227	53	1,577	53	98,227	53							
		4	Strongly agree	317	40	7,151	26	779	30	43,737	24							
		Total		785	100	28,020	100	2,862	100	184,472	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  <i>(Recorded version of tmprep created by NSSE. Values are estimated number of hours per week.)</i>	0	0 hrs	0	0	117	0	22	0	823	1	<b>17.4</b>	15.3 ***	.25	17.0	.05	14.7 ***	.31
		3	1-5 hrs	40	5	2,761	10	492	7	22,385	13							
		8	6-10 hrs	133	17	5,938	21	1,134	18	39,468	22							
		13	11-15 hrs	164	21	6,516	23	1,204	20	40,184	22							
		18	16-20 hrs	194	25	5,754	20	1,105	22	35,729	19							
		23	21-25 hrs	116	14	3,541	13	711	15	21,997	11							
		28	26-30 hrs	65	8	1,587	6	333	8	11,026	6							
		33	More than 30 hrs	69	9	1,721	6	378	9	12,239	6							
Total		781	100	27,935	100	5,379	100	183,851	100									
b. Participating in co-curricular activities (organizations, campus publications, student government, fraternity or sorority, intercollegiate or intramural sports, etc.)	tmcocurrhrs  <i>(Recorded version of tmcocurr created by NSSE. Values are estimated number of hours per week.)</i>	0	0 hrs	144	19	7,601	28	940	17	70,303	39	<b>6.4</b>	5.8 *	.09	6.4	.00	5.0 ***	.20
		3	1-5 hrs	313	39	10,011	36	2,197	41	57,635	31							
		8	6-10 hrs	169	21	4,904	18	1,137	21	24,972	14							
		13	11-15 hrs	80	11	2,708	10	549	10	14,408	8							
		18	16-20 hrs	48	6	1,368	5	294	5	8,299	5							
		23	21-25 hrs	14	2	705	3	154	3	4,251	2							
		28	26-30 hrs	4	1	202	1	44	1	1,452	1							
		33	More than 30 hrs	9	1	348	1	53	1	2,007	1							
Total		781	100	27,847	100	5,368	100	183,327	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

## Virginia Polytechnic Institute and State University

### First-Year Students

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

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

*Your first-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>							
				Virginia Tech		Carnegie Class		SCHEV Peers		NSSE 2020		Virginia Tech	Carnegie Class	SCHEV Peers	NSSE 2020				
				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	664	85	22,264	81	3,870	73	151,615	83	<b>2.0</b>	2.4 *	-08	3.1 ***	-19	2.0	-01	
	(Recorded version of tmworkon created by NSSE. Values are estimated number of hours per week.)	3	1-5 hrs	10	1	840	3	218	4	6,503	3								
	8	6-10 hrs	35	5	1,680	5	466	8	9,857	5									
	13	11-15 hrs	42	5	1,570	6	495	8	7,149	4									
	18	16-20 hrs	19	3	961	3	225	4	4,787	3									
	23	21-25 hrs	7	1	367	1	80	2	1,953	1									
	28	26-30 hrs	1	0	82	0	8	0	529	0									
	33	More than 30 hrs	3	0	126	1	13	0	932	1									
	Total				781	100	27,890	100	5,375	100	183,325								100
	d. Working for pay off campus	tmworkoffhrs	0	0 hrs	702	90	20,362	73	4,314	84	116,172								63
(Recorded version of tmworkoff created by NSSE. Values are estimated number of hours per week.)		3	1-5 hrs	20	3	1,123	4	238	4	9,650	5								
8		6-10 hrs	17	2	1,343	5	238	4	12,229	6									
13		11-15 hrs	8	1	1,612	6	236	3	13,498	7									
18		16-20 hrs	14	2	1,430	5	175	3	12,930	7									
23		21-25 hrs	10	1	1,029	4	117	2	7,818	4									
28		26-30 hrs	2	0	472	2	33	0	3,804	2									
33		More than 30 hrs	6	1	530	2	35	0	7,417	5									
Total					779	100	27,901	100	5,386	100	183,518	100							
Estimated number of hours working for pay		tmworkhrs											<b>3.2</b>	6.6 ***	-32	5.1 ***	-20	8.1 ***	-42
	(Continuous variable created by NSSE)																		
e. Doing community service or volunteer work	tmservicehrs	0	0 hrs	454	60	16,470	59	3,164	60	114,535	62	<b>2.0</b>	2.5 **	-10	2.2	-04	2.4 **	-08	
	(Recorded version of tmservice created by NSSE. Values are estimated number of hours per week.)	3	1-5 hrs	254	31	8,031	29	1,650	30	47,321	25								
	8	6-10 hrs	43	5	1,583	6	266	4	10,350	6									
	13	11-15 hrs	16	2	919	3	142	2	5,338	3									
	18	16-20 hrs	7	1	427	2	99	2	2,918	2									
	23	21-25 hrs	4	1	264	1	47	1	1,589	1									
	28	26-30 hrs	1	0	70	0	7	0	490	0									
	33	More than 30 hrs	1	0	119	0	9	0	882	1									
	Total				780	100	27,883	100	5,384	100	183,423								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

## Virginia Polytechnic Institute and State University

### First-Year Students

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

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

*Your first-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>						
				Virginia Tech		Carnegie Class		SCHEV Peers		NSSE 2020		Virginia Tech	Carnegie Class	SCHEV Peers	NSSE 2020			
				Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size <sup>e</sup>	Mean	Effect size <sup>e</sup>	Mean	Effect size <sup>e</sup>
f. Relaxing and socializing (time with friends, video games, TV or videos, keeping up with friends online, etc.)	tmrelaxhrs	0	0 hrs	13	2	391	2	53	1	3,718	2	<b>13.3</b>	13.1	.02	13.5	-.02	12.6 *	.08
	3	1-5 hrs	121	15	4,618	16	786	14	36,371	20								
	8	6-10 hrs	216	28	7,373	26	1,428	26	48,561	26								
	13	11-15 hrs	167	21	6,509	23	1,325	24	39,522	21								
	18	16-20 hrs	138	18	4,402	16	932	17	26,311	14								
	23	21-25 hrs	46	6	1,999	7	412	8	12,211	7								
	28	26-30 hrs	23	3	784	3	148	3	5,163	3								
	33	More than 30 hrs	53	7	1,808	7	299	6	11,581	7								
	Total			777	100	27,884	100	5,383	100	183,438	100							
g. Providing care for dependents (children, parents, etc.)	tmcarehrs	0	0 hrs	710	91	22,642	81	4,772	89	134,516	73	<b>.8</b>	1.9 ***	-0.20	1.0	-.05	3.2 ***	-.32
	3	1-5 hrs	32	4	2,313	8	255	5	21,000	11								
	8	6-10 hrs	13	2	986	4	105	2	9,162	5								
	13	11-15 hrs	11	1	847	3	112	2	6,362	4								
	18	16-20 hrs	3	0	428	2	72	1	3,758	2								
	23	21-25 hrs	5	1	304	1	41	1	2,218	1								
	28	26-30 hrs	1	0	83	0	5	0	881	1								
	33	More than 30 hrs	3	0	234	1	14	0	5,220	3								
	Total			778	100	27,837	100	5,376	100	183,117	100							
h. Commuting to campus (driving, walking, etc.)	tmcommutehrs	0	0 hrs	367	47	11,003	38	2,100	40	65,143	36	<b>3.2</b>	4.3 ***	-.18	3.6	-.06	4.9 ***	-.25
	3	1-5 hrs	275	35	9,949	36	2,235	42	63,998	35								
	8	6-10 hrs	85	11	3,683	14	583	11	28,038	15								
	13	11-15 hrs	29	4	1,689	6	224	4	13,630	7								
	18	16-20 hrs	7	1	708	3	123	2	5,848	3								
	23	21-25 hrs	7	1	407	1	56	1	2,876	2								
	28	26-30 hrs	3	0	121	0	22	0	1,061	1								
	33	More than 30 hrs	6	1	330	1	38	1	2,875	2								
	Total			779	100	27,890	100	5,381	100	183,469	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

## Virginia Polytechnic Institute and State University

### First-Year Students

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

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

*Your first-year students compared with*

Item wording or description	Variable name <sup>c</sup>	Values <sup>d</sup>	Response options	Virginia Tech				Carnegie Class				SCHEV Peers				NSSE 2020				Virginia Tech		Carnegie Class		SCHEV Peers		NSSE 2020				
				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>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	142	18	3,905	15	823	16	23,268	13	<b>2.4</b>	2.6 ***	-0.15	2.5	-0.06	2.7 ***	-0.28												
		2	Some	311	42	10,432	38	2,236	42	60,510	34																			
		3	About half	197	25	7,473	26	1,314	23	50,790	28																			
		4	Most	83	10	4,482	16	764	14	35,139	19																			
		5	Almost all	40	5	1,531	5	242	5	13,389	7																			
			Total	773	100	27,823	100	5,379	100	183,096	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>6.3</b>	6.3	.00	6.6	-0.04	6.7	-0.05								
	tmreadinghrscol	1	0 hrs	0	0	116	0	22	0	804	1																			
		2	More than zero, up to 5 hrs	412	54	14,425	53	2,906	51	90,060	51																			
		3	More than 5, up to 10 hrs	224	29	8,215	29	1,576	30	53,590	29																			
		4	More than 10, up to 15 hrs	73	9	2,581	9	423	8	18,841	10																			
		5	More than 15, up to 20 hrs	38	5	1,335	5	237	5	9,947	5																			
		6	More than 20, up to 25 hrs	20	2	781	3	144	3	6,516	3																			
		7	More than 25 hrs	5	1	281	1	46	1	2,684	1																			
			Total	772	100	27,734	100	5,354	100	182,442	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	109	14	2,515	10	639	14	15,029	8	<b>2.5</b>	2.7 ***	-0.19	2.5	.00	2.7 ***	-0.25											
			2	Some	267	35	8,333	30	1,874	35	53,984	29																		
			3	Quite a bit	276	36	11,421	40	2,031	36	76,807	42																		
			4	Very much	121	15	5,528	20	818	15	36,879	21																		
			Total	773	100	27,797	100	5,362	100	182,699	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

## Virginia Polytechnic Institute and State University

### First-Year Students

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

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

*Your first-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>									
				Virginia Tech		Carnegie Class		SCHEV Peers		NSSE 2020		Virginia Tech	Carnegie Class	SCHEV Peers	NSSE 2020						
				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	124	16	3,678	14	882	19	24,386	13	<b>2.5</b>	2.6 **	-0.10	2.4 *	.08	2.6 ***	-0.13			
		2	Some	268	34	8,984	32	1,940	36	58,899	32								▽	△	▽
		3	Quite a bit	257	34	10,045	35	1,753	30	66,267	36										
		4	Very much	122	16	5,039	18	791	15	32,815	19										
		Total	771	100	27,746	100	5,366	100	182,367	100											
c. Thinking critically and analytically	pgthink	1	Very little	24	3	838	3	156	3	5,768	3	<b>3.1</b>	3.1	-0.02	3.1	-0.04	3.1	-0.01			
		2	Some	147	19	5,375	19	1,045	20	35,456	20										
		3	Quite a bit	363	46	12,639	45	2,451	43	83,288	45										
		4	Very much	239	31	8,897	33	1,700	34	57,934	32										
		Total	773	100	27,749	100	5,352	100	182,446	100											
d. Analyzing numerical and statistical information	pganalyze	1	Very little	56	7	2,595	9	499	9	25,971	13	<b>2.9</b>	2.8 *	.09	2.8	.06	2.7 ***	.22			
		2	Some	200	25	7,738	28	1,563	28	54,396	30								△	△	
		3	Quite a bit	314	42	10,682	38	2,018	37	64,183	36										
		4	Very much	202	26	6,715	25	1,280	27	37,829	22										
		Total	772	100	27,730	100	5,360	100	182,379	100											
e. Acquiring job- or work-related knowledge and skills	pgwork	1	Very little	88	11	3,689	13	610	13	27,583	15	<b>2.7</b>	2.6 *	.08	2.6 *	.08	2.6 ***	.12			
		2	Some	230	30	9,025	32	1,707	33	59,388	32								△	△	△
		3	Quite a bit	294	38	9,693	35	1,953	34	61,663	34										
		4	Very much	162	21	5,349	20	1,084	20	33,777	19										
		Total	774	100	27,756	100	5,354	100	182,411	100											
f. Working effectively with others	pgothers	1	Very little	42	6	1,763	7	325	8	14,334	8	<b>2.9</b>	2.8 **	.12	2.8 ***	.16	2.8 ***	.15			
		2	Some	181	24	7,591	27	1,502	28	51,475	28								△	△	△
		3	Quite a bit	332	43	11,611	41	2,247	40	74,035	40										
		4	Very much	218	28	6,792	24	1,289	23	42,534	24										
		Total	773	100	27,757	100	5,363	100	182,378	100											
g. Developing or clarifying a personal code of values and ethics	pgvalues	1	Very little	96	13	3,232	13	665	15	22,439	13	<b>2.7</b>	2.7	.04	2.6 ***	.15	2.7	.05			
		2	Some	193	25	8,053	29	1,708	32	54,601	30								△		
		3	Quite a bit	318	41	10,535	37	1,976	34	67,846	37										
		4	Very much	164	21	5,908	21	1,015	19	37,399	21										
		Total	771	100	27,728	100	5,364	100	182,285	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

## Virginia Polytechnic Institute and State University

### First-Year Students

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

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

*Your first-year students compared with*

Item wording or description	Variable name <sup>c</sup>	Values <sup>d</sup>	Response options	Virginia Tech				Carnegie Class				SCHEV Peers				NSSE 2020				Virginia Tech		Carnegie Class		SCHEV Peers		NSSE 2020	
				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>	Mean	Effect size <sup>e</sup>				
h. Understanding people of other backgrounds (economic, racial/ethnic, political, religious, nationality, etc.)	pgdiverse	1	Very little	74	10	2,223	9	463	10	19,699	11	<b>2.7</b>	2.8 *	-07	2.7	.02	2.7	.00									
		2	Some	209	27	7,455	27	1,588	30	51,453	28																
		3	Quite a bit	311	41	10,763	38	2,071	37	67,251	37																
		4	Very much	177	22	7,313	26	1,240	23	43,973	25																
		Total		771	100	27,754	100	5,362	100	182,376	100																
i. Solving complex real-world problems	pgprobsolve	1	Very little	63	8	2,810	11	513	11	22,208	12	<b>2.7</b>	2.7	.06	2.7 **	.10	2.6 ***	.13									
		2	Some	231	30	8,828	32	1,794	33	60,554	33																
		3	Quite a bit	315	41	10,192	36	1,967	35	64,772	35																
		4	Very much	162	21	5,925	22	1,086	21	34,866	20																
		Total		771	100	27,755	100	5,360	100	182,400	100																
j. Being an informed and active citizen	pgcitizen	1	Very little	96	13	3,188	12	616	14	23,410	13	<b>2.7</b>	2.7	.00	2.6	.07	2.6	.04									
		2	Some	231	30	8,782	31	1,809	33	59,553	32																
		3	Quite a bit	287	37	10,025	35	1,900	34	64,177	35																
		4	Very much	158	20	5,797	21	1,042	19	35,545	20																
		Total		772	100	27,792	100	5,367	100	182,685	100																
<b>19. How would you evaluate your entire educational experience at this institution?</b>																											
evalexp		1	Poor	9	1	449	2	84	2	3,962	2	<b>3.4</b>	3.2 ***	.23	3.2 ***	.15	3.1 ***	.32									
		2	Fair	70	9	3,630	13	589	11	27,664	15																
		3	Good	325	42	14,280	50	2,700	47	94,258	51																
		4	Excellent	375	47	9,516	35	2,012	39	57,468	32																
		Total		779	100	27,875	100	5,385	100	183,352	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	13	2	813	3	124	3	6,215	4	<b>3.4</b>	3.2 ***	.26	3.3 ***	.19	3.2 ***	.31									
		2	Probably no	54	7	3,388	12	547	10	23,499	13																
		3	Probably yes	283	36	12,342	43	2,257	41	80,955	44																
		4	Definitely yes	435	55	11,479	42	2,483	46	73,388	39																
		Total		785	100	28,022	100	5,411	100	184,057	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		12	2	858	3	144	3	6,866	4	<b>95%</b>	91% ***	.17	93% **	.11	88% ***	.27									
		Yes		748	95	25,533	91	5,018	93	163,554	88																
		Not sure		23	3	1,664	6	253	5	13,918	8																
		Total		783	100	28,055	100	5,415	100	184,338	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

## Virginia Polytechnic Institute and State University

### Seniors

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

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

*Your seniors 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>							
				Virginia Tech		Carnegie Class		SCHEV Peers		NSSE 2020		Virginia Tech		Carnegie Class		SCHEV Peers		NSSE 2020	
				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	63	6	1,762	4	368	4	10,084	4	<b>2.7</b>	2.9 ***	-0.24	2.9 ***	-0.20	2.9 ***	-0.30	
		2	Sometimes	461	43	14,083	32	3,215	35	72,140	30								
		3	Often	313	29	14,081	32	3,145	32	72,615	31								
		4	Very often	246	22	13,996	31	2,655	29	79,679	34								
		Total		1,083	100	43,922	100	9,383	100	234,518	100								
b. Come to class without completing readings or assignments	unpreparedr <i>(Reverse-coded version of unprepared created by NSSE.)</i>	1	Very often	72	7	3,394	8	820	10	17,822	8	<b>2.9</b>	2.9	-0.03	2.8 ***	.15	3.0 **	-0.09	
		2	Often	200	19	7,017	16	1,863	21	35,871	15								
		3	Sometimes	573	53	22,853	52	5,055	53	120,560	51								
		4	Never	237	22	10,450	24	1,619	16	59,424	27								
		Total		1,082	100	43,714	100	9,357	100	233,677	100								
c. Attended an art exhibit, play, or other arts performance (dance, music, etc.)	attendart	1	Never	443	42	21,698	50	4,058	40	117,288	52	<b>1.7</b>	1.7	.03	1.8 ***	-0.12	1.7 *	.05	
		2	Sometimes	490	45	15,134	35	3,745	42	78,479	33								
		3	Often	102	9	4,305	10	1,063	12	23,429	10								
		4	Very often	39	4	2,488	6	463	6	14,058	6								
		Total		1,074	100	43,625	100	9,329	100	233,254	100								
d. Asked another student to help you understand course material	CLaskhelp	1	Never	71	7	5,147	12	792	10	32,182	15	<b>2.7</b>	2.5 ***	.19	2.6 ***	.11	2.4 ***	.29	
		2	Sometimes	386	36	17,225	40	3,621	39	96,768	41								
		3	Often	395	37	13,610	31	3,227	34	67,912	28								
		4	Very often	217	20	7,572	17	1,677	18	36,185	15								
		Total		1,069	100	43,554	100	9,317	100	233,047	100								
e. Explained course material to one or more students	CLexplain	1	Never	21	2	2,598	6	289	3	16,919	8	<b>2.9</b>	2.8 ***	.15	2.8 *	.08	2.7 ***	.23	
		2	Sometimes	341	31	14,680	34	3,037	33	81,924	35								
		3	Often	445	42	16,720	38	3,974	42	86,175	36								
		4	Very often	260	25	9,510	22	1,998	22	47,730	20								
		Total		1,067	100	43,508	100	9,298	100	232,748	100								
f. Prepared for exams by discussing or working through course material with other students	CLstudy	1	Never	141	13	6,815	16	1,183	14	41,571	19	<b>2.7</b>	2.6 ***	.11	2.6 **	.10	2.5 ***	.20	
		2	Sometimes	316	30	14,490	33	3,167	35	78,164	33								
		3	Often	347	33	12,849	29	2,898	29	66,281	28								
		4	Very often	254	24	9,158	21	2,025	21	45,690	19								
		Total		1,058	100	43,312	100	9,273	100	231,706	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

## Virginia Polytechnic Institute and State University

### Seniors

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

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

*Your seniors compared with*

Item wording or description	Variable name <sup>c</sup>	Values <sup>d</sup>	Response options	Virginia Tech				Carnegie Class				SCHEV Peers				NSSE 2020				Virginia Tech		Carnegie Class		SCHEV Peers		NSSE 2020	
				Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	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	26	3	2,823	7	359	4	18,784	9	<b>3.1</b>	2.9 ***	.16	3.0 **	.08	2.8 ***	.23	△	△	△						
		2	Sometimes	242	23	11,426	26	2,275	26	62,852	27																
		3	Often	439	42	15,800	37	3,603	37	81,859	35																
		4	Very often	340	33	13,081	30	3,009	32	67,290	29																
		Total		1,047	100	43,130	100	9,246	100	230,785	100																
h. Given a course presentation	present	1	Never	94	9	5,198	13	849	10	26,224	13	<b>2.7</b>	2.6	.05	2.6	.04	2.7	.02	△	△	△						
		2	Sometimes	368	35	14,381	34	3,320	38	73,462	32																
		3	Often	358	34	13,571	31	3,036	32	74,217	31																
		4	Very often	228	21	9,919	22	2,033	21	56,641	24																
		Total		1,048	100	43,069	100	9,238	100	230,544	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	27	3	1,740	4	236	3	9,206	4	<b>2.9</b>	2.9	.00	2.9	-.01	2.9	.01	△	△	△						
		2	Sometimes	297	29	11,929	28	2,567	29	63,896	28																
		3	Often	455	44	17,424	41	3,982	42	94,044	41																
		4	Very often	249	24	11,568	27	2,361	25	61,440	27																
		Total		1,028	100	42,661	100	9,146	100	228,586	100																
b. Connected your learning to societal problems or issues	RIsocietal	1	Never	100	10	3,471	9	640	8	15,991	8	<b>2.5</b>	2.7 ***	-.18	2.7 ***	-.18	2.8 ***	-.25	▽	▽	▽						
		2	Sometimes	409	41	14,147	34	3,206	36	71,740	32																
		3	Often	335	33	14,983	34	3,303	35	83,420	36																
		4	Very often	168	16	9,832	22	1,950	21	56,312	24																
		Total		1,012	100	42,433	100	9,099	100	227,463	100																
c. Included diverse perspectives (political, religious, racial/ethnic, gender, etc.) in course discussions or assignments	RIdiverse	1	Never	183	19	6,061	16	1,159	14	29,705	14	<b>2.3</b>	2.5 ***	-.25	2.5 ***	-.27	2.6 ***	-.30	▽	▽	▽						
		2	Sometimes	445	44	14,762	35	3,383	38	77,583	35																
		3	Often	256	25	12,648	29	2,809	31	70,453	30																
		4	Very often	119	11	8,671	20	1,688	18	48,300	21																
		Total		1,003	100	42,142	100	9,039	100	226,041	100																
d. Examined the strengths and weaknesses of your own views on a topic or issue	RIownview	1	Never	66	7	2,086	6	416	5	10,853	5	<b>2.6</b>	2.8 ***	-.21	2.8 ***	-.18	2.8 ***	-.21	▽	▽	▽						
		2	Sometimes	379	39	12,480	30	2,807	31	67,513	30																
		3	Often	378	39	18,031	43	4,054	44	97,146	43																
		4	Very often	160	16	9,248	22	1,705	20	48,831	22																
		Total		983	100	41,845	100	8,982	100	224,343	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

## Virginia Polytechnic Institute and State University

### Seniors

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

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

*Your seniors 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>							
				Virginia Tech		Carnegie Class		SCHEV Peers		NSSE 2020		Virginia Tech	Carnegie Class	SCHEV Peers	NSSE 2020				
				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	RIperspect	1	Never	39	4	1,263	3	241	3	6,689	3	<b>2.8</b>	3.0 ***	-0.18	2.9 ***	-0.13	3.0 ***	-0.17	
		2	Sometimes	287	30	10,047	25	2,289	26	54,259	25								
		3	Often	426	44	18,421	44	4,061	45	100,545	45								
		4	Very often	206	21	11,625	28	2,292	26	60,362	27								
		Total		958	100	41,356	100	8,883	100	221,855	100								
f. Learned something that changed the way you understand an issue or concept	RNewview	1	Never	18	2	840	2	176	2	4,291	2	<b>2.9</b>	3.0 ***	-0.14	2.9 ***	-0.12	3.0 ***	-0.14	
		2	Sometimes	298	32	10,451	26	2,334	26	56,083	26								
		3	Often	416	45	18,465	45	4,119	46	100,145	45								
		4	Very often	204	21	11,171	27	2,170	26	59,004	27								
		Total		936	100	40,927	100	8,799	100	219,523	100								
g. Connected ideas from your courses to your prior experiences and knowledge	RIconnect	1	Never	8	1	439	1	78	1	2,235	1	<b>3.1</b>	3.2 ***	-0.12	3.2 ***	-0.12	3.2 ***	-0.13	
		2	Sometimes	169	19	6,734	17	1,357	16	34,600	16								
		3	Often	478	52	19,086	47	4,365	49	103,652	47								
		4	Very often	264	28	14,334	35	2,928	34	77,116	35								
		Total		919	100	40,593	100	8,728	100	217,603	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	190	22	7,511	20	1,422	19	43,934	21	<b>2.2</b>	2.4 ***	-0.14	2.4 ***	-0.14	2.4 ***	-0.14	
		2	Sometimes	420	45	16,424	40	3,626	43	85,472	39								
		3	Often	186	20	9,689	23	2,163	23	50,673	23								
		4	Very often	120	13	6,905	17	1,509	16	37,459	17								
		Total		916	100	40,529	100	8,720	100	217,538	100								
b. Worked with a faculty member on activities other than coursework (committees, student groups, etc.)	SFotherwork	1	Never	366	41	16,984	43	3,140	39	96,980	46	<b>2.0</b>	1.9	.02	2.0	-0.04	1.9	.05	
		2	Sometimes	301	33	12,579	31	2,977	33	63,684	29								
		3	Often	141	15	6,474	16	1,613	17	33,265	15								
		4	Very often	99	10	4,347	11	944	11	22,884	10								
		Total		907	100	40,384	100	8,674	100	216,813	100								
c. Discussed course topics, ideas, or concepts with a faculty member outside of class	SFdiscuss	1	Never	230	25	11,403	29	2,112	25	60,748	29	<b>2.1</b>	2.1	-0.02	2.1	-0.04	2.1	-0.03	
		2	Sometimes	437	49	16,533	41	3,945	46	87,311	40								
		3	Often	148	17	8,096	20	1,785	20	44,231	20								
		4	Very often	80	9	4,053	10	800	9	22,927	11								
		Total		895	100	40,085	100	8,642	100	215,217	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

## Virginia Polytechnic Institute and State University

### Seniors

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

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

*Your seniors 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>						
				Virginia Tech		Carnegie Class		SCHEV Peers		NSSE 2020		Virginia Tech	Carnegie Class	SCHEV Peers	NSSE 2020			
				Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size <sup>e</sup>	Mean	Effect size <sup>e</sup>	Mean	Effect size <sup>e</sup>
d. Discussed your academic performance with a faculty member	SFperform	1	Never	286	32	10,381	27	2,316	30	56,810	26	<b>2.0</b>	2.1 ***	-0.17	2.0	-0.07	2.1 ***	-0.21
		2	Sometimes	409	46	17,831	44	3,941	45	91,995	43							
		3	Often	141	16	8,117	20	1,676	17	44,628	21							
		4	Very often	59	6	3,770	9	703	7	21,943	10							
		Total		895	100	40,099	100	8,636	100	215,376	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	65	7	2,470	6	514	6	15,533	7	<b>2.7</b>	2.8 ***	-0.18	2.8 **	-0.11	2.8 ***	-0.12
		2	Some	313	36	11,398	29	2,648	32	62,763	30							
		3	Quite a bit	335	38	16,018	40	3,510	39	84,607	40							
		4	Very much	170	19	9,959	25	1,920	22	51,167	23							
		Total		883	100	39,845	100	8,592	100	214,070	100							
b. Applying facts, theories, or methods to practical problems or new situations	HOapply	1	Very little	23	3	1,103	3	204	3	6,365	3	<b>3.1</b>	3.1	.01	3.1	.00	3.0	.03
		2	Some	177	20	8,067	20	1,780	20	44,251	21							
		3	Quite a bit	400	45	17,899	45	3,971	46	96,476	45							
		4	Very much	275	32	12,592	32	2,613	32	66,052	31							
		Total		875	100	39,661	100	8,568	100	213,144	100							
c. Analyzing an idea, experience, or line of reasoning in depth by examining its parts	HOanalyze	1	Very little	35	4	1,289	4	258	3	7,396	4	<b>2.9</b>	3.0 ***	-0.12	3.0	-0.06	3.0 **	-0.10
		2	Some	227	26	8,671	22	2,103	24	47,713	22							
		3	Quite a bit	377	43	17,143	43	3,823	45	92,371	44							
		4	Very much	231	27	12,243	31	2,330	28	63,829	30							
		Total		870	100	39,346	100	8,514	100	211,309	100							
d. Evaluating a point of view, decision, or information source	HOevaluate	1	Very little	107	13	2,369	7	559	8	11,138	6	<b>2.5</b>	2.9 ***	-0.37	2.8 ***	-0.25	2.9 ***	-0.43
		2	Some	307	37	9,848	25	2,489	30	51,192	24							
		3	Quite a bit	288	33	16,380	41	3,526	40	90,404	43							
		4	Very much	155	17	10,576	27	1,903	23	57,606	27							
		Total		857	100	39,173	100	8,477	100	210,340	100							
e. Forming a new idea or understanding from various pieces of information	HOform	1	Very little	55	7	1,777	5	398	6	8,747	4	<b>2.8</b>	2.9 ***	-0.18	2.8 *	-0.07	2.9 ***	-0.19
		2	Some	248	29	9,352	24	2,354	29	50,658	24							
		3	Quite a bit	373	44	17,339	44	3,752	42	94,150	45							
		4	Very much	177	20	10,584	27	1,951	24	56,002	27							
		Total		853	100	39,052	100	8,455	100	209,557	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

## Virginia Polytechnic Institute and State University

### Seniors

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

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

*Your seniors 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>							
				Virginia Tech		Carnegie Class		SCHEV Peers		NSSE 2020		Virginia Tech		Carnegie Class		SCHEV Peers		NSSE 2020	
				Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size <sup>e</sup>	Mean	Effect size <sup>e</sup>	Mean	Effect size <sup>e</sup>	
<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	18	2	792	2	132	2	4,839	3	3.1	3.1 **	-.09	3.1	-.05	3.1 *	-.07	
		2	Some	163	19	7,136	18	1,588	19	38,753	19								
		3	Quite a bit	425	51	17,376	44	4,002	47	93,151	44								
		4	Very much	233	28	13,517	35	2,678	32	71,620	35								
		Total		839	100	38,821	100	8,400	100	208,363	100								
b. Taught course sessions in an organized way	ETorganize	1	Very little	18	2	1,529	4	219	3	8,532	4	3.0	3.0	.03	3.1	-.02	3.0	.03	
		2	Some	170	20	7,906	20	1,595	18	41,681	20								
		3	Quite a bit	413	49	17,487	45	4,157	49	93,969	44								
		4	Very much	236	29	11,809	31	2,421	30	63,615	31								
		Total		837	100	38,731	100	8,392	100	207,797	100								
c. Used examples or illustrations to explain difficult points	ETexample	1	Very little	18	2	1,187	3	143	2	7,022	4	3.1	3.1	.06	3.1	.01	3.1 *	.08	
		2	Some	146	17	7,675	20	1,594	19	41,225	20								
		3	Quite a bit	381	46	16,485	42	3,801	44	88,585	42								
		4	Very much	289	35	13,326	35	2,848	35	70,665	34								
		Total		834	100	38,673	100	8,386	100	207,497	100								
d. Provided feedback on a draft or work in progress	ETdraftfb	1	Very little	123	15	4,267	12	1,024	14	22,764	11	2.5	2.7 ***	-.16	2.6	-.01	2.7 ***	-.20	
		2	Some	288	34	11,864	31	2,927	36	61,699	30								
		3	Quite a bit	267	33	13,134	33	2,812	31	70,965	34								
		4	Very much	153	18	9,327	24	1,613	19	51,735	25								
		Total		831	100	38,592	100	8,376	100	207,163	100								
e. Provided prompt and detailed feedback on tests or completed assignments	ETfeedback	1	Very little	93	11	3,426	9	739	9	18,132	9	2.6	2.7 ***	-.15	2.6	-.03	2.8 ***	-.18	
		2	Some	302	35	12,054	31	2,968	36	62,500	30								
		3	Quite a bit	285	36	14,355	37	3,166	37	77,805	37								
		4	Very much	142	17	8,706	23	1,481	17	48,395	24								
		Total		822	100	38,541	100	8,354	100	206,832	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

## Virginia Polytechnic Institute and State University

### Seniors

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

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

*Your seniors 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>						
				Virginia Tech		Carnegie Class		SCHEV Peers		NSSE 2020		Virginia Tech	Carnegie Class	SCHEV Peers	NSSE 2020			
				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	67	8	3,638	9	718	9	24,691	11	<b>2.8</b>	2.7 *	.08	2.7 *	.08	2.6 ***	.18
		2	Sometimes	250	30	12,610	32	2,888	33	71,489	34							
		3	Often	296	38	13,958	37	3,080	37	71,606	36							
		4	Very often	185	24	7,894	22	1,583	21	36,746	19							
		Total		798	100	38,100	100	8,269	100	204,532	100							
b. Used numerical information to examine a real-world problem or issue (unemployment, climate change, public health, etc.)	QRproblem	1	Never	161	20	6,728	18	1,354	17	38,787	19	<b>2.4</b>	2.5 *	-.08	2.5 *	-.09	2.4	-.04
		2	Sometimes	310	39	13,503	35	3,137	37	75,984	37							
		3	Often	198	26	11,479	30	2,520	30	58,846	29							
		4	Very often	124	16	6,242	17	1,228	16	30,089	15							
		Total		793	100	37,952	100	8,239	100	203,706	100							
c. Evaluated what others have concluded from numerical information	QRevaluate	1	Never	102	12	5,460	15	1,024	12	34,352	17	<b>2.5</b>	2.5	.04	2.5	.01	2.4 **	.12
		2	Sometimes	305	38	14,185	37	3,276	38	78,612	38							
		3	Often	264	34	12,304	33	2,784	34	62,543	31							
		4	Very often	122	16	5,870	16	1,135	15	27,494	14							
		Total		793	100	37,819	100	8,219	100	203,001	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	82	11	2,795	8	539	7	11,817	6	<b>6.3</b>	7.0 **	-.10	7.1 ***	-.12	7.6 ***	-.20
		1.5	1-2	191	24	7,372	20	1,661	20	34,118	17							
		4	3-5	221	28	10,988	29	2,384	29	58,326	29							
		8	6-10	133	17	7,840	20	1,706	20	45,838	22							
		13	11-15	71	9	4,028	10	907	11	22,880	11							
		18	16-20	35	5	1,831	5	410	5	11,529	6							
		23	More than 20	52	6	2,870	7	574	7	17,548	9							
		Total		785	100	37,724	100	8,181	100	202,056	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	250	32	10,379	29	2,320	28	42,088	22	<b>2.8</b>	3.3 ***	-.13	3.0	-.05	3.9 ***	-.25
		1.5	1-2	270	34	12,157	32	3,007	37	62,668	31							
		4	3-5	154	19	8,388	22	1,713	21	52,043	25							
		8	6-10	72	9	3,972	10	694	9	26,984	13							
		13	11-15	27	3	1,484	4	251	3	9,871	5							
		18	16-20	4	0	545	1	85	1	3,627	2							
		23	More than 20	6	1	663	2	90	1	4,023	2							
Total		783	100	37,588	100	8,160	100	201,304	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

## Virginia Polytechnic Institute and State University

### Seniors

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

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

*Your seniors 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>							
				Virginia Tech		Carnegie Class		SCHEV Peers		NSSE 2020		Virginia Tech	Carnegie Class	SCHEV Peers	NSSE 2020				
				Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size <sup>e</sup>	Mean	Effect size <sup>e</sup>	Mean	Effect size <sup>e</sup>	
c. 11 pages or more	wrlongnum	0	None	401	51	19,007	52	4,557	55	86,349	45	<b>1.7</b>	2.0	-0.06	1.7	.03	2.3 ***	-0.13	
	(Recorded version of wrlong created by NSSE. Values are estimated number of papers, reports, etc.)	1.5	1-2	250	32	11,604	30	2,471	30	68,917	33								
		4	3-5	70	10	3,757	10	643	8	25,619	12								
		8	6-10	37	5	1,500	4	257	4	10,190	5								
		13	11-15	15	2	929	2	143	2	5,568	3								
		18	16-20	2	0	327	1	41	1	2,079	1								
		23	More than 20	7	1	530	1	67	1	3,178	2								
	Total			782	100	37,654	100	8,179	100	201,900	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>66.7</b>	76.7 **	-0.10	69.3	-0.03	88.1 ***	-0.21	
<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	17	2	1,436	4	243	3	9,734	5	<b>3.2</b>	3.2	-0.05	3.1	.06	3.1 *	.08	
		2	Sometimes	185	23	7,209	19	2,061	25	46,339	23								
		3	Often	240	31	11,553	30	2,723	31	62,196	31								
		4	Very often	340	43	17,475	47	3,149	41	83,702	42								
			Total	782	100	37,673	100	8,176	100	201,971	100								
b. People from an economic background other than your own	DDeconomic	1	Never	14	2	1,355	4	180	2	9,030	5	<b>3.1</b>	3.1	-0.03	3.1	.04	3.0 **	.09	
		2	Sometimes	176	22	7,565	20	1,917	24	47,728	23								
		3	Often	304	39	13,005	34	3,147	37	71,471	35								
		4	Very often	288	37	15,660	42	2,924	37	73,148	37								
			Total	782	100	37,585	100	8,168	100	201,377	100								
c. People with religious beliefs other than your own	DDreligion	1	Never	15	2	1,828	5	257	3	13,427	7	<b>3.1</b>	3.1	.03	3.1	.05	3.0 ***	.17	
		2	Sometimes	181	23	8,256	22	2,005	25	53,021	26								
		3	Often	283	37	12,120	32	2,904	34	64,380	32								
		4	Very often	301	39	15,376	41	3,001	38	70,582	36								
			Total	780	100	37,580	100	8,167	100	201,410	100								
d. People with political views other than your own	DDpolitical	1	Never	15	2	2,333	6	285	4	14,247	7	<b>3.1</b>	3.0 ***	.12	3.0 ***	.13	2.9 ***	.22	
		2	Sometimes	205	25	10,642	27	2,261	30	61,870	30								
		3	Often	276	36	11,377	30	2,768	32	63,339	31								
		4	Very often	285	37	13,265	36	2,856	34	62,093	32								
			Total	781	100	37,617	100	8,170	100	201,549	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

## Virginia Polytechnic Institute and State University

### Seniors

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

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

*Your seniors compared with*

Item wording or description	Variable name <sup>c</sup>	Values <sup>d</sup>	Response options	Virginia Tech				Carnegie Class				SCHEV Peers				NSSE 2020				Virginia Tech				Carnegie Class				SCHEV Peers				NSSE 2020			
				Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%
<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	38	5	1,076	3	255	4	5,319	3	<b>2.8</b>	3.1 ***	-0.28	3.0 ***	-0.19	3.1 ***	-0.30																	
		2	Sometimes	218	30	7,857	21	1,949	24	41,225	21																								
		3	Often	338	43	16,119	43	3,640	44	87,552	43																								
		4	Very often	177	22	12,405	33	2,296	29	66,436	33																								
		Total		771	100	37,457	100	8,140	100	200,532	100																								
b. Reviewed your notes after class	LSnotes	1	Never	74	10	2,672	7	760	10	16,765	8	<b>2.6</b>	2.8 ***	-0.21	2.7	.00	2.8 ***	-0.17																	
		2	Sometimes	297	38	11,382	30	2,974	38	63,787	31																								
		3	Often	223	29	12,340	33	2,571	31	64,708	32																								
		4	Very often	175	23	11,030	30	1,827	22	55,155	28																								
		Total		769	100	37,424	100	8,132	100	200,415	100																								
c. Summarized what you learned in class or from course materials	LSsummary	1	Never	83	11	2,552	7	724	10	14,502	7	<b>2.6</b>	2.8 ***	-0.30	2.7 **	-0.12	2.8 ***	-0.29																	
		2	Sometimes	289	39	11,059	29	2,828	35	60,026	29																								
		3	Often	261	33	13,659	36	2,886	35	73,347	37																								
		4	Very often	134	17	10,148	27	1,687	21	52,517	27																								
		Total		767	100	37,418	100	8,125	100	200,392	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	5	1	407	1	78	1	1,948	1	<b>5.3</b>	5.4 ***	-0.12	5.3	-0.02	5.5 ***	-0.17																	
		2		18	3	564	2	111	2	2,904	2																								
		3		41	5	1,971	5	453	5	9,107	5																								
		4		106	14	4,272	11	991	13	21,892	11																								
		5		244	32	11,356	30	2,780	34	59,844	30																								
		6		209	27	9,094	24	2,146	26	50,762	25																								
		7	Very much	136	18	9,564	26	1,540	19	52,897	27																								
		Total		759	100	37,228	100	8,099	100	199,354	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		34	5	3,282	9	405	6	20,316	10	<b>66%</b>	51% ***	.31	62% *	.08	48% ***	.36																	
		Do not plan to do		98	14	5,251	14	928	12	35,231	18																								
		Plan to do		122	16	9,419	26	1,662	20	44,481	23																								
		Done or in progress		501	66	19,230	51	5,093	62	98,922	48																								
		Total		755	100	37,182	100	8,088	100	198,950	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

## Virginia Polytechnic Institute and State University

### Seniors

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

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

*Your seniors 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>							
				Virginia Tech		Carnegie Class		SCHEV Peers		NSSE 2020		Virginia Tech		Carnegie Class		SCHEV Peers		NSSE 2020	
				Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size <sup>e</sup>	Mean	Effect size <sup>e</sup>	Mean	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	5	1	469	1	57	1	2,626	1	<b>5.8</b>	5.6 ***	.15	5.6 ***	.13	5.6 ***	.14	
		2		9	1	601	2	84	1	3,217	2								
		3		16	2	1,496	4	283	4	7,844	4								
		4		54	7	3,643	10	717	9	19,164	10								
		5		172	23	9,224	25	2,077	26	48,361	24								
		6		258	34	10,638	29	2,705	33	55,607	28								
	7	Excellent	232	31	10,298	28	2,104	26	55,969	29									
	—	Not applicable	0	0	500	1	28	0	4,360	3									
		Total		746	100	36,869	100	8,055	100	197,148	100								
b. Academic advisors	QIadvisor	1	Poor	14	2	1,843	5	273	4	9,411	5	<b>5.4</b>	5.1 ***	.20	5.2 ***	.14	5.2 ***	.15	
		2		36	5	1,986	5	374	5	9,483	5								
		3		47	6	3,023	8	597	8	14,769	7								
		4		92	12	5,136	14	984	13	24,245	12								
		5		140	19	7,142	19	1,566	20	36,675	18								
		6		159	21	7,043	19	1,704	21	37,497	19								
	7	Excellent	252	34	10,199	28	2,521	29	56,344	30									
	—	Not applicable	8	1	458	1	34	1	8,511	4									
		Total		748	100	36,830	100	8,053	100	196,935	100								
c. Faculty	QIfaculty	1	Poor	6	1	652	2	81	1	3,607	2	<b>5.4</b>	5.4	.02	5.4	.04	5.5	-.03	
		2		9	1	849	2	129	2	4,585	2								
		3		34	5	1,957	5	358	5	9,921	5								
		4		100	14	4,788	13	1,104	14	23,199	12								
		5		203	27	9,450	25	2,305	28	47,235	24								
		6		254	34	10,242	28	2,451	30	54,641	27								
	7	Excellent	138	19	8,547	24	1,590	20	51,543	27									
	—	Not applicable	1	0	327	1	31	0	2,163	1									
		Total		745	100	36,812	100	8,049	100	196,894	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

## Virginia Polytechnic Institute and State University

### Seniors

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

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

*Your seniors 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>							
				Virginia Tech		Carnegie Class		SCHEV Peers		NSSE 2020		Virginia Tech		Carnegie Class		SCHEV Peers		NSSE 2020	
				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	11	2	1,561	4	197	3	9,103	5	<b>5.2</b>	4.9 ***	.17	5.0 **	.11	4.9 ***	.15	
		2		26	4	1,682	4	254	3	8,687	4								
		3		41	5	2,726	7	549	7	13,808	7								
		4		96	13	5,182	14	1,176	15	24,970	12								
		5		179	24	7,264	19	1,851	22	36,372	18								
		6		178	23	6,477	17	1,766	21	33,380	17								
		7	Excellent	134	18	6,229	17	1,395	17	34,296	18								
		—	Not applicable	79	11	5,694	16	856	11	36,154	19								
	Total	744	100	36,815	100	8,044	100	196,770	100										
e. Other administrative staff and offices (registrar, financial aid, etc.)	QIadmin	1	Poor	24	3	1,964	5	242	4	9,710	5	<b>4.9</b>	4.8 *	.08	4.9	.01	4.9	.00	
		2		35	5	1,996	5	303	4	9,999	5								
		3		58	8	3,210	8	545	7	15,613	8								
		4		103	14	5,880	16	1,259	16	28,334	14								
		5		182	24	7,750	21	1,810	21	40,868	20								
		6		158	21	6,737	18	1,752	20	38,156	19								
		7	Excellent	111	15	6,108	17	1,307	15	37,620	20								
		—	Not applicable	73	10	3,189	9	824	12	16,629	9								
	Total	744	100	36,834	100	8,042	100	196,929	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	10	1	552	2	123	1	3,686	2	<b>3.2</b>	3.2	.02	3.2	.04	3.1	.06	
		2	Some	118	15	6,342	17	1,457	16	34,776	18								
		3	Quite a bit	344	46	16,477	44	3,920	47	87,548	45								
		4	Very much	272	37	13,368	37	2,532	35	70,253	36								
			Total	744	100	36,739	100	8,032	100	196,263	100								
b. Providing support to help students succeed academically	SEacademic	1	Very little	38	5	2,065	6	304	5	12,610	7	<b>2.9</b>	2.9	.01	2.9	.01	2.9	.03	
		2	Some	184	25	9,853	27	2,054	27	53,615	27								
		3	Quite a bit	353	47	15,652	42	3,738	45	80,916	41								
		4	Very much	167	23	9,083	25	1,911	23	48,696	26								
			Total	742	100	36,653	100	8,007	100	195,837	100								
c. Using learning support services (tutoring services, writing center, etc.)	SElearnsup	1	Very little	73	11	3,662	10	590	8	20,952	11	<b>2.7</b>	2.8 *	-0.08	2.8 *	-0.08	2.8	-0.06	
		2	Some	204	27	9,794	26	2,135	28	53,890	27								
		3	Quite a bit	309	42	13,794	37	3,324	41	71,545	36								
		4	Very much	156	20	9,352	26	1,963	23	49,213	26								
			Total	742	100	36,602	100	8,012	100	195,600	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

## Virginia Polytechnic Institute and State University

### Seniors

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

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

*Your seniors 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>						
				Virginia Tech		Carnegie Class		SCHEV Peers		NSSE 2020		Virginia Tech	Carnegie Class	SCHEV Peers	NSSE 2020			
				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	123	17	5,017	14	1,079	14	34,195	17	<b>2.5</b>	2.7 ** ▽	-.12	2.6	-.03	2.6	-.01
		2	Some	245	32	10,998	30	2,712	34	62,038	31							
		3	Quite a bit	233	32	12,022	32	2,693	32	59,809	31							
		4	Very much	142	19	8,554	24	1,520	19	39,355	21							
		Total		743	100	36,591	100	8,004	100	195,397	100							
e. Providing opportunities to be involved socially	SEsocial	1	Very little	35	5	2,875	8	357	5	20,213	11	<b>3.0</b>	2.8 *** △	.12	2.9	.04	2.7 ***	.23
		2	Some	166	23	9,561	26	1,934	25	56,251	29							
		3	Quite a bit	317	43	14,307	39	3,450	42	73,281	37							
		4	Very much	221	29	9,806	27	2,251	28	45,455	24							
		Total		739	100	36,549	100	7,992	100	195,200	100							
f. Providing support for your overall well-being (recreation, health care, counseling, etc.)	SEwellness	1	Very little	67	9	4,141	12	660	10	26,519	14	<b>2.8</b>	2.7 * △	.09	2.8	.06	2.7 ***	.18
		2	Some	189	25	10,175	28	2,195	28	58,588	30							
		3	Quite a bit	288	39	13,218	36	3,136	37	67,689	34							
		4	Very much	194	26	9,002	25	1,996	25	42,229	22							
		Total		738	100	36,536	100	7,987	100	195,025	100							
g. Helping you manage your non-academic responsibilities (work, family, etc.)	SEnonacad	1	Very little	246	33	12,045	33	2,598	35	69,011	35	<b>2.0</b>	2.1	-.07	2.0	.03	2.1	-.04
		2	Some	292	40	12,868	35	3,168	39	67,920	35							
		3	Quite a bit	138	19	7,654	21	1,585	19	38,566	20							
		4	Very much	62	8	3,931	11	634	8	19,278	10							
		Total		738	100	36,498	100	7,985	100	194,775	100							
h. Attending campus activities and events (performing arts, athletic events, etc.)	SEactivities	1	Very little	41	6	4,868	14	640	8	36,789	20	<b>2.9</b>	2.6 *** △	.24	2.8 ***	.13	2.5 ***	.42
		2	Some	197	27	11,047	30	2,433	30	63,168	32							
		3	Quite a bit	298	41	12,843	35	3,169	39	61,673	31							
		4	Very much	199	26	7,700	22	1,731	23	32,942	17							
		Total		735	100	36,458	100	7,973	100	194,572	100							
i. Attending events that address important social, economic, or political issues	SEevents	1	Very little	183	25	7,670	22	1,343	18	45,969	25	<b>2.1</b>	2.3 *** ▽	-.19	2.3 ***	-.21	2.3 ***	-.12
		2	Some	326	44	13,928	38	3,418	43	73,915	37							
		3	Quite a bit	168	23	10,086	27	2,357	29	51,684	26							
		4	Very much	61	8	4,791	13	865	11	23,075	12							
		Total		738	100	36,475	100	7,983	100	194,643	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

## Virginia Polytechnic Institute and State University

### Seniors

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

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

*Your seniors compared with*

Item wording or description	Variable name <sup>c</sup>	Values <sup>d</sup>	Response options	Virginia Tech				Carnegie Class				SCHEV Peers				NSSE 2020				Virginia Tech		Carnegie Class		SCHEV Peers		NSSE 2020	
				Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	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 <i>(Comparison data are limited to NSSE 2020.)</i>	1	Strongly disagree	14	2	856	3	63	2	5,038	3	<b>3.4</b>	3.3 ***	.13	3.3 *	.09	3.3 ***	.14	△	△	△	△					
		2	Disagree	46	6	2,632	7	271	8	14,444	7																
		3	Agree	307	41	17,596	47	1,671	45	95,414	48																
		4	Strongly agree	370	50	15,415	43	1,564	45	79,804	42																
		Total		737	100	36,499	100	3,569	100	194,700	100																
b. I feel valued by this institution.	SBvalued <i>(Comparison data are limited to NSSE 2020.)</i>	1	Strongly disagree	67	10	2,776	8	188	6	14,385	8	<b>2.8</b>	2.9 **	-.11	2.9 ***	-.17	2.9 ***	-.14	▽	▽	▽	▽					
		2	Disagree	178	24	7,843	21	747	21	40,580	20																
		3	Agree	342	46	17,784	48	1,807	49	95,134	48																
		4	Strongly agree	150	20	8,052	23	824	24	44,419	24																
		Total		737	100	36,455	100	3,566	100	194,518	100																
c. I feel like part of the community at this institution.	SBcommunity <i>(Comparison data are limited to NSSE 2020.)</i>	1	Strongly disagree	34	5	2,167	6	163	5	12,378	7	<b>3.1</b>	2.9 ***	.16	3.0	.07	2.9 ***	.19	△	△	△	△					
		2	Disagree	107	15	6,870	19	566	16	39,394	20																
		3	Agree	352	48	18,256	49	1,833	50	95,802	49																
		4	Strongly agree	243	32	9,191	26	1,003	29	47,101	25																
		Total		736	100	36,484	100	3,565	100	194,675	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 <i>(Recorded version of tmprep created by NSSE. Values are estimated number of hours per week.)</i>	0	0 hrs	3	0	171	1	33	0	900	1	<b>17.3</b>	15.2 ***	.24	15.8 ***	.17	15.1 ***	.25	△	△	△	△					
		3	1-5 hrs	61	8	4,562	13	1,113	12	25,161	13																
		8	6-10 hrs	149	20	8,241	23	1,881	21	43,350	23																
		13	11-15 hrs	141	19	7,614	21	1,619	19	39,031	20																
		18	16-20 hrs	122	16	6,562	18	1,400	19	34,990	18																
		23	21-25 hrs	102	14	3,878	10	890	12	21,433	11																
		28	26-30 hrs	55	7	2,253	6	483	7	12,503	6																
33	More than 30 hrs	100	14	3,097	9	544	9	16,752	9																		
Total		733	100	36,378	100	7,963	100	194,120	100																		
b. Participating in co-curricular activities (organizations, campus publications, student government, fraternity or sorority, intercollegiate or intramural sports, etc.)	tmcocurrhrs <i>(Recorded version of tmcocurr created by NSSE. Values are estimated number of hours per week.)</i>	0	0 hrs	151	22	13,654	38	1,831	24	84,761	45	<b>6.9</b>	5.3 ***	.23	6.4	.07	4.8 ***	.30	△	△	△	△					
		3	1-5 hrs	240	32	10,562	29	2,946	35	53,013	27																
		8	6-10 hrs	153	21	5,416	15	1,580	20	23,847	12																
		13	11-15 hrs	102	14	3,151	9	784	10	14,133	7																
		18	16-20 hrs	43	6	1,761	5	429	6	8,677	4																
		23	21-25 hrs	21	3	915	3	226	3	4,572	2																
		28	26-30 hrs	12	2	315	1	75	1	1,810	1																
33	More than 30 hrs	10	1	535	1	88	1	2,890	2																		
Total		732	100	36,309	100	7,959	100	193,703	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

## Virginia Polytechnic Institute and State University

### Seniors

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

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

*Your seniors 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>							
				Virginia Tech		Carnegie Class		SCHEV Peers		NSSE 2020		Virginia Tech	Carnegie Class	SCHEV Peers	NSSE 2020				
				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	496	69	25,477	72	4,699	57	140,937	74	<b>3.6</b>	3.8	-.03	5.6 ***	-.25	3.3	.05	
	(Recorded version of tmworkon created by NSSE.)	3	1-5 hrs	47	6	1,514	4	472	6	9,865	4								
		8	6-10 hrs	78	10	2,976	8	881	12	15,377	7								
		13	11-15 hrs	60	8	2,555	7	852	11	11,243	5								
		18	16-20 hrs	24	3	2,318	6	669	8	9,969	5								
		23	21-25 hrs	15	2	796	2	205	3	3,234	2								
		28	26-30 hrs	3	0	242	1	87	1	1,109	1								
		33	More than 30 hrs	9	1	439	1	94	2	1,943	1								
	Total			732	100	36,317	100	7,959	100	193,677	100								
d. Working for pay off campus	tmworkoffhrs	0	0 hrs	512	70	16,153	45	4,240	59	80,186	41	<b>3.9</b>	11.3 ***	-.59	6.8 ***	-.29	12.4 ***	-.65	
	(Recorded version of tmworkoff created by NSSE.)	3	1-5 hrs	54	7	1,761	5	474	5	10,280	5								
		8	6-10 hrs	53	7	2,473	7	623	7	14,202	7								
		13	11-15 hrs	35	5	2,811	7	711	8	15,533	7								
		18	16-20 hrs	35	5	3,492	9	775	8	19,470	10								
		23	21-25 hrs	20	3	2,637	7	492	5	13,922	7								
		28	26-30 hrs	9	1	1,886	5	275	3	9,604	5								
		33	More than 30 hrs	14	2	5,122	15	375	5	30,682	18								
	Total			732	100	36,335	100	7,965	100	193,879	100								
Estimated number of hours working for pay	tmworkhrs											<b>7.5</b>	15.0 ***	-.57	12.3 ***	-.43	15.6 ***	-.61	
	(Continuous variable created by NSSE)																		
e. Doing community service or volunteer work	tmservicehrs	0	0 hrs	382	54	18,957	52	4,100	54	100,794	52	<b>2.3</b>	3.2 ***	-.16	2.6	-.07	3.2 ***	-.16	
	(Recorded version of tmservice created by NSSE.)	3	1-5 hrs	286	37	11,181	31	2,780	33	59,846	30								
		8	6-10 hrs	35	4	2,994	8	546	7	16,345	8								
		13	11-15 hrs	14	2	1,422	4	246	3	7,594	4								
		18	16-20 hrs	6	1	835	2	142	2	4,327	2								
		23	21-25 hrs	7	1	411	1	87	1	2,117	1								
		28	26-30 hrs	0	0	155	0	19	0	830	0								
		33	More than 30 hrs	4	1	365	1	32	0	1,912	1								
	Total			734	100	36,320	100	7,952	100	193,765	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

## Virginia Polytechnic Institute and State University

### Seniors

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

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

*Your seniors 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>						
				Virginia Tech		Carnegie Class		SCHEV Peers		NSSE 2020		Virginia Tech	Carnegie Class	SCHEV Peers	NSSE 2020			
				Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size <sup>e</sup>	Mean	Effect size <sup>e</sup>	Mean	Effect size <sup>e</sup>
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	10	2	915	3	89	1	5,505	3	<b>12.9</b>	11.8 *** ▲	.14	13.1	-.01	11.2 *** ▲	.21
		3	1-5 hrs	128	17	8,158	22	1,390	17	48,588	25							
		8	6-10 hrs	203	27	10,302	28	2,230	27	54,670	28							
		13	11-15 hrs	178	24	7,345	20	1,796	23	37,306	19							
		18	16-20 hrs	107	15	4,619	13	1,213	16	23,640	12							
		23	21-25 hrs	37	5	2,055	6	529	7	10,023	5							
		28	26-30 hrs	19	3	887	3	249	4	4,411	2							
		33	More than 30 hrs	48	7	2,013	6	452	6	9,575	5							
			Total	730	100	36,294	100	7,948	100	193,718	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	680	93	25,711	71	6,713	85	126,993	64	<b>.7</b>	4.3 *** ▼	-.40	1.8 *** ▼	-.19	5.7 *** ▼	-.47
		3	1-5 hrs	23	3	3,576	10	523	6	22,016	11							
		8	6-10 hrs	12	2	1,761	5	194	2	10,483	5							
		13	11-15 hrs	9	1	1,226	3	158	2	6,871	4							
		18	16-20 hrs	3	0	831	2	100	1	5,103	3							
		23	21-25 hrs	1	0	490	1	71	1	2,933	2							
		28	26-30 hrs	0	0	295	1	21	0	1,805	1							
		33	More than 30 hrs	5	1	2,380	7	159	2	17,254	10							
			Total	733	100	36,270	100	7,939	100	193,458	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	59	8	6,001	15	947	14	39,623	22	<b>4.3</b>	5.8 *** ▼	-.24	4.8 ** ▼	-.09	5.6 *** ▼	-.19
		3	1-5 hrs	524	71	18,228	51	5,033	60	89,667	45							
		8	6-10 hrs	107	15	6,895	20	1,287	17	35,915	18							
		13	11-15 hrs	25	4	2,654	7	354	5	14,570	7							
		18	16-20 hrs	8	1	1,026	3	133	2	5,946	3							
		23	21-25 hrs	3	0	530	1	87	1	2,767	1							
		28	26-30 hrs	0	0	236	1	25	0	1,254	1							
		33	More than 30 hrs	5	1	777	2	84	1	4,143	2							
			Total	731	100	36,347	100	7,950	100	193,885	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

## Virginia Polytechnic Institute and State University

### Seniors

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

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

*Your seniors 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>						
				Virginia Tech		Carnegie Class		SCHEV Peers		NSSE 2020		Virginia Tech	Carnegie Class	SCHEV Peers	NSSE 2020			
				Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size <sup>e</sup>	Mean	Effect size <sup>e</sup>	Mean	Effect size <sup>e</sup>
<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	215	30	6,207	18	1,652	22	27,997	15	<b>2.2</b>	2.7 ***	-0.38	2.5 ***	-0.24	2.8 ***	-0.50
		2	Some	277	39	11,291	32	2,732	36	55,777	29							
		3	About half	125	17	9,005	24	1,775	21	50,137	26							
		4	Most	69	9	6,672	18	1,285	15	40,954	21							
		5	Almost all	43	5	3,088	8	504	6	18,593	9							
			Total	729	100	36,263	100	7,948	100	193,458	100							
	tmreadinghrs		(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)									<b>5.3</b>	6.6 ***	-0.21	6.0 ***	-0.13	7.1 ***	-0.28
	tmreadinghrscol	1	0 hrs	3	0	169	1	33	0	884	1							
	(Collapsed version of tmreadinghrs created by NSSE.)	2	More than zero, up to 5 hrs	426	59	18,656	52	4,528	55	91,998	49							
		3	More than 5, up to 10 hrs	208	29	10,092	28	2,165	29	55,588	28							
		4	More than 10, up to 15 hrs	54	7	3,375	9	622	9	19,969	10							
		5	More than 15, up to 20 hrs	25	3	1,899	5	330	4	11,864	6							
		6	More than 20, up to 25 hrs	9	1	1,286	3	175	2	8,499	4							
		7	More than 25 hrs	3	0	657	2	71	1	3,997	2							
			Total	728	100	36,134	100	7,924	100	192,799	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	71	9	2,329	7	469	7	10,553	6	<b>2.7</b>	2.9 ***	-0.25	2.9 ***	-0.21	3.0 ***	-0.32
		2	Some	225	31	8,490	24	1,998	25	41,876	22							
		3	Quite a bit	278	38	14,174	38	3,226	40	77,201	39							
		4	Very much	156	21	11,272	31	2,238	28	63,750	33							
			Total	730	100	36,265	100	7,931	100	193,380	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

## Virginia Polytechnic Institute and State University

### Seniors

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

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

*Your seniors 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>						
				Virginia Tech		Carnegie Class		SCHEV Peers		NSSE 2020		Virginia Tech	Carnegie Class	SCHEV Peers	NSSE 2020			
				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	53	8	2,816	8	610	9	14,707	8	<b>2.8</b>	2.9	-.05	2.8	.00	2.9	-.06
		2	Some	197	27	8,892	25	2,086	27	47,034	24							
		3	Quite a bit	293	40	13,517	37	2,996	37	73,380	37							
		4	Very much	183	26	10,991	30	2,234	28	57,990	30							
		Total		726	100	36,216	100	7,926	100	193,111	100							
c. Thinking critically and analytically	pgthink	1	Very little	11	2	802	2	140	2	4,200	2	<b>3.3</b>	3.3	.03	3.4	-.05	3.3	.03
		2	Some	90	12	4,700	13	906	12	24,289	13							
		3	Quite a bit	285	39	13,817	38	2,972	35	74,417	38							
		4	Very much	342	47	16,897	47	3,906	51	90,259	47							
		Total		728	100	36,216	100	7,924	100	193,165	100							
d. Analyzing numerical and statistical information	pganalyze	1	Very little	41	5	2,911	8	542	6	20,287	10	<b>3.1</b>	3.0 **	.11	3.0	.07	2.9 ***	.23
		2	Some	159	21	8,227	22	1,905	22	48,846	24							
		3	Quite a bit	229	32	12,415	34	2,701	33	64,692	34							
		4	Very much	297	42	12,668	37	2,785	39	59,328	32							
		Total		726	100	36,221	100	7,933	100	193,153	100							
e. Acquiring job- or work-related knowledge and skills	pgwork	1	Very little	64	9	3,303	10	564	8	18,730	10	<b>3.0</b>	2.9 *	.08	2.9	.04	2.9 **	.10
		2	Some	145	20	8,804	24	1,808	24	47,739	24							
		3	Quite a bit	263	36	12,316	33	2,828	34	65,960	34							
		4	Very much	256	36	11,784	33	2,727	34	60,725	32							
		Total		728	100	36,207	100	7,927	100	193,154	100							
f. Working effectively with others	pgothers	1	Very little	28	4	1,626	5	261	4	10,168	6	<b>3.1</b>	3.1	.06	3.1	.04	3.0 **	.10
		2	Some	132	18	7,248	21	1,518	21	40,741	21							
		3	Quite a bit	299	41	14,218	38	3,224	39	75,882	38							
		4	Very much	267	37	13,117	36	2,928	36	66,279	34							
		Total		726	100	36,209	100	7,931	100	193,070	100							
g. Developing or clarifying a personal code of values and ethics	pgvalues	1	Very little	87	13	4,081	12	878	13	20,315	11	<b>2.7</b>	2.8 ***	-.12	2.7	-.06	2.8 ***	-.16
		2	Some	229	31	9,164	26	2,211	28	48,475	25							
		3	Quite a bit	249	34	12,340	33	2,749	33	67,983	34							
		4	Very much	162	22	10,588	29	2,088	26	56,205	29							
		Total		727	100	36,173	100	7,926	100	192,978	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

## Virginia Polytechnic Institute and State University

### Seniors

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

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

*Your seniors 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>						
				Virginia Tech		Carnegie Class		SCHEV Peers		NSSE 2020		Virginia Tech	Carnegie Class	SCHEV Peers	NSSE 2020			
				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	83	12	3,101	9	649	9	18,599	10	<b>2.6</b>	2.9 ***	-0.29	2.8 ***	-0.22	2.8 ***	-0.24
		2	Some	247	34	8,779	25	2,143	28	49,576	26							
		3	Quite a bit	260	36	12,651	34	2,875	35	66,928	34							
		4	Very much	138	19	11,695	32	2,260	28	57,977	30							
		Total		728	100	36,226	100	7,927	100	193,080	100							
i. Solving complex real-world problems	pgprobsolve	1	Very little	55	8	3,119	9	529	7	17,857	10	<b>2.9</b>	2.9	.01	2.9	-0.02	2.8	.05
		2	Some	192	26	9,329	26	2,094	26	53,062	27							
		3	Quite a bit	277	38	13,098	36	3,011	37	69,227	35							
		4	Very much	203	29	10,667	30	2,292	30	52,908	28							
		Total		727	100	36,213	100	7,926	100	193,054	100							
j. Being an informed and active citizen	pgcitizen	1	Very little	134	19	4,691	14	957	13	24,575	13	<b>2.4</b>	2.7 ***	-0.27	2.6 ***	-0.23	2.7 ***	-0.28
		2	Some	261	35	10,601	29	2,511	32	57,176	29							
		3	Quite a bit	214	30	11,668	31	2,583	31	63,363	32							
		4	Very much	117	16	9,281	26	1,887	24	48,185	25							
		Total		726	100	36,241	100	7,938	100	193,299	100							
<b>19. How would you evaluate your entire educational experience at this institution?</b>																		
	evalexp	1	Poor	23	3	1,045	3	155	2	5,765	3	<b>3.2</b>	3.2	.04	3.3 *	-0.08	3.2	.07
		2	Fair	86	13	4,731	13	806	11	27,124	14							
		3	Good	313	42	16,625	44	3,558	43	88,514	45							
		4	Excellent	315	42	13,988	39	3,430	44	72,555	38							
		Total		737	100	36,389	100	7,949	100	193,958	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	28	4	1,639	5	237	3	9,693	5	<b>3.4</b>	3.2 ***	.16	3.3	.04	3.2 ***	.20
		2	Probably no	68	9	4,557	12	807	10	26,352	13							
		3	Probably yes	249	34	14,758	40	3,083	38	78,379	40							
		4	Definitely yes	396	52	15,555	43	3,844	49	80,031	42							
		Total		741	100	36,509	100	7,971	100	194,455	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>

### Virginia Polytechnic Institute and State University

#### First-Year Students

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>		
	Virginia Tech	Virginia Tech	Carnegie Class	SCHEV Peers	NSSE 2020	Virginia Tech	Carnegie Class	SCHEV Peers	NSSE 2020	Virginia Tech	Carnegie Class	SCHEV Peers	NSSE 2020	Comparisons with:			Comparisons with:			Comparisons with:						
														Carnegie Class	SCHEV Peers	NSSE 2020	Carnegie Class	SCHEV Peers	NSSE 2020	Carnegie Class	SCHEV Peers	NSSE 2020				
1 a. askquest	1,265	2.62	2.68	2.68	2.66	.023	.006	.011	.002	.82	.85	.84	.88	23,425	7,088	1,293	.011	.013	.064	-.07	-.08	-.05				
b. unpreparedr	1,253	3.11	3.01	2.94	3.02	.020	.005	.010	.002	.72	.79	.80	.80	23,330	1,984	126,684	.000	.000	.000	.13	.22	.12				
c. attendart	1,247	1.67	1.77	1.81	1.73	.021	.006	.011	.002	.75	.87	.86	.88	1,441	2,022	1,280	.000	.000	.003	-.11	-.16	-.07				
d. CLaskhelp	1,244	2.76	2.68	2.77	2.59	.024	.006	.011	.003	.84	.87	.85	.90	1,400	6,999	1,272	.002	.502	.000	.09	-.02	.19				
e. CLexplain	1,236	2.79	2.77	2.82	2.67	.023	.006	.011	.002	.80	.81	.80	.85	23,126	6,968	1,263	.509	.201	.000	.02	-.04	.14				
f. CLstudy	1,225	2.70	2.64	2.67	2.54	.027	.006	.013	.003	.94	.95	.95	.97	23,003	6,928	1,250	.032	.297	.000	.06	.03	.16				
g. CLproject	1,214	2.79	2.69	2.70	2.64	.024	.006	.011	.003	.84	.86	.85	.90	1,360	1,782	1,241	.000	.000	.000	.12	.11	.17				
h. present	1,210	2.22	2.15	2.06	2.16	.023	.006	.011	.003	.81	.87	.82	.92	22,785	1,780	1,240	.003	.000	.004	.09	.20	.07				
2 a. RIintegrate	1,172	2.54	2.57	2.58	2.57	.023	.006	.011	.002	.79	.84	.81	.85	1,320	6,768	1,197	.209	.102	.166	-.04	-.05	-.04				
b. RISocietal	1,156	2.44	2.54	2.51	2.55	.024	.006	.011	.003	.81	.87	.85	.88	1,305	1,717	1,181	.000	.008	.000	-.11	-.08	-.11				
c. RIDiverse	1,127	2.38	2.55	2.48	2.49	.025	.006	.012	.003	.85	.90	.88	.93	1,269	1,666	1,152	.000	.000	.000	-.18	-.12	-.11				
d. Rlownview	1,099	2.66	2.75	2.70	2.73	.023	.006	.011	.002	.77	.81	.81	.82	21,627	6,520	117,697	.000	.083	.005	-.12	-.06	-.09				
e. RIPerspect	1,060	2.80	2.90	2.85	2.89	.024	.006	.011	.002	.79	.79	.80	.80	1,173	6,359	115,587	.000	.067	.001	-.13	-.06	-.10				
f. RInewview	1,030	2.81	2.85	2.84	2.85	.024	.006	.011	.002	.76	.79	.77	.79	20,802	6,236	113,569	.116	.243	.062	-.05	-.04	-.06				
g. RIconnect	998	3.03	3.04	3.05	3.03	.023	.005	.010	.002	.72	.74	.73	.75	20,491	6,139	111,973	.847	.418	.756	-.01	-.03	.01				
3 a. SFcareer	1,003	2.27	2.28	2.26	2.16	.028	.007	.012	.003	.88	.92	.89	.95	1,118	6,143	1,023	.737	.777	.000	-.01	.01	.11				
b. SFotherwork	991	1.76	1.77	1.78	1.70	.028	.007	.012	.003	.88	.91	.89	.90	20,294	6,080	111,202	.833	.632	.032	-.01	-.02	.07				
c. SFdiscuss	966	2.02	1.98	1.96	1.95	.028	.006	.012	.003	.88	.89	.84	.90	20,052	5,984	983	.171	.031	.013	.05	.08	.08				
d. SFperform	960	2.02	2.04	1.96	2.01	.028	.006	.012	.003	.87	.88	.84	.90	20,053	5,966	977	.496	.060	.748	-.02	.07	.01				
4 a. memorize	943	2.86	2.96	2.90	2.93	.027	.006	.011	.002	.82	.80	.80	.81	1,033	1,308	958	.000	.088	.008	-.13	-.06	-.09				
b. HOapply	938	3.01	2.99	3.04	2.92	.025	.006	.011	.002	.77	.79	.77	.81	19,732	5,890	955	.479	.270	.001	.02	-.04	.11				
c. HOanalyze	928	2.89	2.95	2.93	2.89	.027	.006	.012	.003	.82	.81	.81	.82	1,018	5,830	107,123	.045	.210	.879	-.07	-.04	.01				
d. HOevaluate	919	2.76	2.87	2.75	2.84	.029	.006	.012	.003	.88	.83	.84	.83	1,001	1,248	932	.000	.813	.007	-.13	.01	-.10				
e. HOform	905	2.80	2.89	2.83	2.85	.027	.006	.011	.003	.81	.81	.80	.81	994	5,748	105,844	.002	.351	.068	-.10	-.03	-.06				
5 a. ETgoals	888	3.12	3.06	3.04	3.03	.024	.006	.011	.002	.72	.77	.76	.78	19,086	5,676	104,986	.009	.003	.000	.09	.11	.12				
b. ETorganize	887	3.15	2.99	2.99	2.96	.026	.006	.011	.003	.77	.80	.77	.82	981	1,236	104,575	.000	.000	.000	.21	.21	.24				
c. ETexample	887	3.13	3.03	3.04	3.01	.025	.006	.011	.003	.76	.80	.78	.82	18,984	5,652	104,387	.000	.003	.000	.12	.11	.15				
d. ETdraftfb	883	2.69	2.69	2.55	2.69	.030	.007	.013	.003	.90	.91	.91	.93	18,931	5,639	104,097	.938	.000	.975	.00	.16	.00				
e. ETfeedback	877	2.61	2.64	2.59	2.65	.030	.007	.012	.003	.89	.89	.86	.91	18,899	5,625	103,858	.346	.471	.211	-.03	.03	-.04				
6 a. QRconclude	847	2.72	2.65	2.65	2.53	.029	.006	.012	.003	.85	.86	.85	.89	18,577	5,528	862	.037	.031	.000	.07	.08	.21				
b. QRproblem	844	2.41	2.37	2.31	2.29	.031	.007	.013	.003	.89	.93	.91	.92	18,482	5,498	101,669	.273	.006	.000	.04	.10	.13				
c. QRevaluate	837	2.44	2.41	2.40	2.29	.029	.007	.013	.003	.84	.89	.87	.89	927	5,481	101,253	.343	.286	.000	.03	.04	.16				

# NSSE 2020 Frequencies and Statistical Comparisons

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

### Virginia Polytechnic Institute and State University

#### First-Year Students

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>		
														Comparisons with:			Comparisons with:			Comparisons with:						
	Virginia Tech	Virginia Tech	Carnegie Class	SCHEV Peers	NSSE 2020	Virginia Tech	Carnegie Class	SCHEV Peers	NSSE 2020	Virginia Tech	Carnegie Class	SCHEV Peers	NSSE 2020	Carnegie Class	SCHEV Peers	NSSE 2020	Carnegie Class	SCHEV Peers	NSSE 2020	Carnegie Class	SCHEV Peers	NSSE 2020				
7 a. wrshortnum	835	6.27	6.05	6.00	6.39	.193	.041	.082	.018	5.57	5.45	5.58	5.65	18,342	5,469	100,812	.244	.200	.562	.04	.05	-.02				
b. wrmednum	836	2.34	2.21	2.08	2.57	.118	.026	.051	.012	3.42	3.39	3.49	3.69	18,282	5,463	851	.274	.047	.053	.04	.07	-.06				
c. wrlongnum	834	.93	1.02	.97	1.24	.095	.023	.044	.010	2.74	3.02	3.01	3.31	933	5,464	854	.353	.720	.001	-.03	-.01	-.09				
— wrpages	830	51.10	50.53	48.97	57.67	2.488	.570	1.111	.257	71.68	75.05	75.46	80.83	18,190	5,440	847	.830	.450	.009	.01	.03	-.08				
8 a. DDrace	835	3.19	3.17	3.09	3.05	.029	.007	.013	.003	.83	.86	.86	.92	18,299	5,452	851	.585	.002	.000	.02	.11	.16				
b. DDeconomic	833	3.09	3.12	3.06	2.99	.029	.006	.012	.003	.83	.85	.84	.90	918	5,435	849	.274	.437	.001	-.04	.03	.11				
c. DDreligion	832	3.12	3.08	3.04	2.92	.031	.007	.013	.003	.89	.89	.87	.95	18,240	1,136	847	.182	.021	.000	.05	.09	.20				
d. DDpolitical	833	3.07	2.94	2.93	2.83	.030	.007	.013	.003	.87	.92	.89	.95	924	5,443	849	.000	.000	.000	.14	.16	.25				
9 a. LSreading	823	2.94	2.99	2.95	2.98	.026	.006	.012	.002	.74	.76	.78	.77	18,096	1,180	99,500	.041	.748	.146	-.07	-.01	-.05				
b. LSnotes	823	2.91	2.91	2.81	2.85	.030	.007	.013	.003	.86	.88	.89	.89	18,104	1,161	837	.894	.002	.064	.00	.11	.06				
c. LSsummary	821	2.78	2.84	2.74	2.82	.030	.007	.013	.003	.85	.87	.86	.88	18,102	5,390	99,424	.052	.265	.223	-.07	.04	-.04				
10. challenge	813	5.52	5.37	5.45	5.39	.039	.009	.018	.004	1.12	1.23	1.19	1.25	908	1,168	829	.000	.070	.001	.12	.07	.11				
11 a. intern <sup>l</sup>	811	.088	.077	.096	.075	.0099	.0020	.0044	.0008	--	--	--	--	--	--	--	.280	.464	.159	.04	-.03	.05				
b. leader <sup>l</sup>	809	.099	.109	.153	.091	.0105	.0024	.0053	.0009	--	--	--	--	--	--	--	.390	.000	.381	-.03	-.16	.03				
c. learncom <sup>l</sup>	809	.209	.167	.247	.113	.0143	.0029	.0064	.0010	--	--	--	--	--	--	--	.002	.023	.000	.11	-.09	.27				
d. abroad <sup>l</sup>	806	.041	.027	.038	.026	.0070	.0012	.0028	.0005	--	--	--	--	--	--	--	.022	.671	.008	.08	.02	.08				
e. research <sup>l</sup>	810	.061	.057	.077	.041	.0084	.0018	.0040	.0006	--	--	--	--	--	--	--	.620	.118	.006	.02	-.06	.09				
f. capstone <sup>l</sup>	804	.010	.021	.018	.021	.0035	.0011	.0020	.0005	--	--	--	--	--	--	--	.028	.107	.038	-.09	-.07	-.09				
12. servcourse	796	1.55	1.56	1.48	1.59	.022	.005	.010	.002	.61	.67	.66	.70	888	5,307	813	.437	.014	.027	-.03	.09	-.07				
13 a. QIstudent	793	5.79	5.49	5.49	5.44	.042	.010	.019	.004	1.17	1.30	1.26	1.37	887	1,142	810	.000	.000	.000	.23	.24	.26				
b. QIadvisor	765	5.69	5.33	5.36	5.26	.049	.012	.023	.005	1.36	1.55	1.52	1.62	858	1,121	783	.000	.000	.000	.23	.22	.26				
c. QIfaculty	788	5.57	5.33	5.34	5.31	.042	.010	.019	.005	1.17	1.32	1.28	1.41	884	1,150	807	.000	.000	.000	.18	.18	.19				
d. QIstaff	723	5.44	5.17	5.23	5.12	.051	.012	.022	.006	1.36	1.51	1.45	1.61	807	4,955	740	.000	.000	.000	.18	.14	.20				
e. QIadmin	678	5.23	5.04	5.15	5.07	.057	.013	.024	.006	1.49	1.55	1.47	1.62	15,814	4,477	690	.001	.170	.005	.12	.06	.10				
14 a. empstudy	791	3.11	3.13	3.17	3.10	.025	.006	.011	.002	.70	.74	.74	.75	876	1,135	806	.449	.057	.468	-.03	-.07	.02				
b. SEacademic	787	3.09	3.04	3.03	2.97	.028	.006	.012	.003	.80	.81	.80	.84	17,593	5,255	96,186	.058	.060	.000	.07	.07	.15				
c. SElearnsup	785	2.99	3.08	3.06	2.99	.031	.007	.013	.003	.86	.87	.85	.91	860	5,250	798	.006	.043	.915	-.10	-.08	.00				
d. SEdiverse	787	2.86	2.82	2.76	2.67	.032	.007	.014	.003	.91	.93	.93	.97	17,562	1,099	802	.236	.003	.000	.04	.11	.19				
e. SEsocial	785	3.11	3.00	3.05	2.87	.029	.007	.012	.003	.82	.85	.83	.90	17,535	5,232	800	.000	.051	.000	.14	.08	.27				
f. SEwellness	781	3.09	2.96	2.96	2.83	.030	.007	.013	.003	.84	.87	.87	.92	17,500	5,218	795	.000	.000	.000	.15	.15	.28				



# NSSE 2020 Frequencies and Statistical Comparisons

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

### Virginia Polytechnic Institute and State University

#### First-Year Students

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>		
	Virginia Tech	Virginia Tech	Carnegie Class	SCHEV Peers	NSSE 2020	Virginia Tech	Carnegie Class	SCHEV Peers	NSSE 2020	Virginia Tech	Carnegie Class	SCHEV Peers	NSSE 2020	Comparisons with:			Comparisons with:			Comparisons with:						
														Carnegie Class	SCHEV Peers	NSSE 2020	Carnegie Class	SCHEV Peers	NSSE 2020	Carnegie Class	SCHEV Peers	NSSE 2020				
g. SEnonacad	783	2.41	2.35	2.27	2.27	.034	.007	.014	.003	.94	.96	.92	.97	17,495	1,064	95,570	.093	.000	.000	.06	.15	.14				
h. SEactivities	781	3.05	2.87	2.92	2.68	.029	.007	.013	.003	.82	.89	.84	.96	869	5,215	797	.000	.000	.000	.20	.16	.39				
i. SEevents	783	2.40	2.48	2.45	2.41	.032	.007	.014	.003	.90	.93	.91	.95	863	5,221	797	.020	.140	.842	-.08	-.06	-.01				
15 a. SBmyself	781	3.41	3.28	3.32	3.24	.024	.005	.015	.002	.66	.68	.67	.69	17,454	2,836	95,415	.000	.002	.000	.18	.13	.24				
b. SBvalued	780	3.08	2.97	3.02	2.95	.027	.006	.016	.002	.77	.75	.73	.76	851	1,342	95,290	.000	.031	.000	.16	.09	.18				
c. SBcommunity	781	3.25	3.02	3.10	2.96	.027	.006	.016	.003	.75	.76	.73	.78	858	1,380	794	.000	.000	.000	.30	.20	.36				
16 a. tmprephrs	777	17.38	15.29	16.99	14.74	.292	.064	.128	.027	8.15	8.20	8.47	8.40	17,401	1,093	790	.000	.220	.000	.25	.05	.31				
b. tmcocurrhrs	778	6.41	5.81	6.42	5.05	.235	.052	.098	.022	6.57	6.76	6.49	6.79	17,343	5,180	94,764	.015	.968	.000	.09	.00	.20				
c. tmworkonhrs	778	1.97	2.42	3.05	2.03	.187	.045	.089	.018	5.23	5.77	5.91	5.42	868	1,157	94,762	.019	.000	.728	-.08	-.19	-.01				
d. tmworkoffhrs	775	1.34	4.17	2.04	6.06	.180	.064	.084	.032	5.02	8.21	5.60	9.80	979	1,141	824	.000	.000	.000	-.35	-.13	-.48				
— tmworkhrs	775	3.24	6.56	5.06	8.05	.291	.082	.137	.037	8.10	10.54	9.06	11.47	901	1,142	799	.000	.000	.000	-.32	-.20	-.42				
e. tmservicehrs	777	2.01	2.47	2.19	2.41	.135	.037	.065	.016	3.77	4.75	4.34	4.91	895	5,189	797	.001	.258	.003	-.10	-.04	-.08				
f. tmrelaxhrs	773	13.31	13.13	13.52	12.63	.306	.065	.121	.028	8.50	8.36	8.06	8.60	17,362	5,185	94,805	.541	.522	.028	.02	-.02	.08				
g. tmcarehrs	774	.83	1.85	1.04	3.16	.130	.041	.059	.024	3.62	5.29	3.93	7.40	934	1,118	827	.000	.142	.000	-.20	-.05	-.32				
h. tmcommutehrs	775	3.24	4.34	3.57	4.89	.187	.047	.079	.022	5.20	6.04	5.28	6.60	875	5,181	795	.000	.105	.000	-.18	-.06	-.25				
17. reading	769	2.42	2.59	2.48	2.73	.038	.008	.016	.004	1.06	1.08	1.07	1.12	844	5,178	782	.000	.138	.000	-.15	-.06	-.28				
— tmreadinghrs	768	6.33	6.35	6.55	6.65	.189	.043	.085	.019	5.24	5.56	5.63	5.88	17,266	5,156	782	.953	.319	.096	.00	-.04	-.05				
18 a. pgwrite	769	2.52	2.69	2.52	2.75	.033	.007	.014	.003	.92	.90	.91	.88	17,301	5,153	780	.000	.936	.000	-.19	.00	-.25				
b. pgspeak	767	2.48	2.57	2.41	2.61	.034	.007	.015	.003	.94	.95	.96	.94	17,266	5,154	94,207	.010	.041	.000	-.10	.08	-.13				
c. pgthink	769	3.05	3.07	3.08	3.06	.029	.006	.012	.003	.80	.81	.81	.81	17,274	5,143	94,261	.567	.349	.855	-.02	-.04	-.01				
d. pganalyze	768	2.87	2.79	2.82	2.66	.032	.007	.014	.003	.88	.92	.93	.96	847	1,087	782	.013	.115	.000	.09	.06	.22				
e. pgwork	770	2.69	2.61	2.61	2.57	.033	.007	.014	.003	.92	.95	.95	.96	17,274	5,143	783	.027	.033	.000	.08	.08	.12				
f. pgothers	769	2.93	2.83	2.79	2.80	.031	.007	.013	.003	.86	.87	.89	.89	844	1,079	782	.001	.000	.000	.12	.16	.15				
g. pgvalues	767	2.70	2.67	2.56	2.66	.034	.007	.014	.003	.94	.95	.96	.95	17,256	1,062	94,182	.333	.000	.183	.04	.15	.05				
h. pgdiverse	767	2.75	2.82	2.73	2.75	.033	.007	.014	.003	.92	.92	.92	.95	17,266	5,152	779	.044	.689	.946	-.07	.02	.00				
i. pgprobsolve	767	2.75	2.69	2.65	2.62	.032	.007	.014	.003	.88	.93	.93	.94	847	1,090	780	.084	.008	.000	.06	.10	.13				
j. pgcitizen	769	2.65	2.65	2.59	2.62	.034	.007	.014	.003	.94	.94	.95	.95	17,297	5,158	94,397	.918	.087	.325	.00	.07	.04				
19. evalexp	777	3.35	3.18	3.24	3.11	.025	.006	.011	.002	.71	.72	.73	.74	854	5,190	790	.000	.000	.000	.23	.15	.32				
20. sameinst	782	3.44	3.24	3.30	3.19	.026	.006	.011	.003	.71	.78	.76	.80	17,475	5,219	95,257	.000	.000	.000	.26	.19	.31				
21. returnexp <sup>1</sup>	780	.954	.910	.927	.881	.0075	.0022	.0039	.0011	--	--	--	--	--	--	--	.000	.008	.000	.17	.11	.27				

# NSSE 2020 Frequencies and Statistical Comparisons

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

### Virginia Polytechnic Institute and State University

#### 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>		
														Comparisons with:			Comparisons with:			Comparisons with:						
	Virginia Tech	Virginia Tech	Carnegie Class	SCHEV Peers	NSSE 2020	Virginia Tech	Carnegie Class	SCHEV Peers	NSSE 2020	Virginia Tech	Carnegie Class	SCHEV Peers	NSSE 2020	Carnegie Class	SCHEV Peers	NSSE 2020	Carnegie Class	SCHEV Peers	NSSE 2020	Carnegie Class	SCHEV Peers	NSSE 2020				
1 a. askquest	1,083	2.68	2.90	2.86	2.95	.027	.005	.010	.002	.88	.90	.88	.91	32,452	9,318	136,644	.000	.000	.000	-.24	-.20	-.30				
b. unpreparedr	1,082	2.89	2.92	2.77	2.97	.025	.005	.009	.002	.81	.84	.83	.85	32,290	1,398	136,061	.312	.000	.004	-.03	.15	-.09				
c. attendart	1,073	1.74	1.71	1.84	1.69	.023	.005	.009	.002	.77	.86	.86	.87	1,167	1,445	1,094	.226	.000	.045	.03	-.12	.05				
d. CLaskhelp	1,069	2.70	2.53	2.60	2.43	.026	.005	.010	.003	.87	.91	.89	.92	1,151	1,381	1,087	.000	.000	.000	.19	.11	.29				
e. CLexplain	1,066	2.89	2.77	2.83	2.69	.024	.005	.009	.002	.79	.86	.81	.89	1,152	9,204	1,086	.000	.010	.000	.15	.08	.23				
f. CLstudy	1,057	2.67	2.56	2.58	2.48	.030	.006	.011	.003	.98	1.00	.98	1.01	31,921	9,160	1,074	.000	.003	.000	.11	.10	.20				
g. CLproject	1,046	3.05	2.91	2.98	2.83	.025	.005	.010	.003	.81	.91	.87	.95	1,136	1,376	1,068	.000	.007	.000	.16	.08	.23				
h. present	1,047	2.67	2.62	2.64	2.66	.028	.006	.010	.003	.91	.97	.92	.98	1,128	9,117	1,065	.078	.186	.563	.05	.04	.02				
2 a. RIintegrate	1,025	2.90	2.90	2.90	2.89	.025	.005	.009	.002	.80	.85	.81	.85	1,104	9,003	1,042	.971	.851	.858	.00	-.01	.01				
b. RISocietal	1,010	2.54	2.70	2.70	2.76	.028	.005	.010	.003	.88	.92	.89	.91	1,085	8,937	131,818	.000	.000	.000	-.18	-.18	-.25				
c. RIDiverse	1,000	2.28	2.53	2.53	2.57	.029	.006	.011	.003	.90	.98	.94	.97	1,079	1,290	1,016	.000	.000	.000	-.25	-.27	-.30				
d. Rlownview	979	2.64	2.81	2.79	2.82	.027	.005	.009	.002	.83	.84	.82	.83	1,045	1,231	993	.000	.000	.000	-.21	-.18	-.21				
e. Rlperspect	955	2.82	2.96	2.93	2.96	.026	.005	.009	.002	.81	.81	.80	.81	1,018	1,198	968	.000	.000	.000	-.18	-.13	-.17				
f. RInewview	935	2.85	2.96	2.94	2.96	.025	.005	.009	.002	.77	.79	.78	.78	29,808	8,513	126,621	.000	.001	.000	-.14	-.12	-.14				
g. RIconnect	919	3.07	3.16	3.16	3.17	.024	.004	.008	.002	.71	.74	.72	.73	982	1,159	932	.000	.001	.000	-.12	-.12	-.13				
3 a. SFcareer	915	2.23	2.37	2.36	2.36	.031	.006	.011	.003	.94	.98	.96	.99	980	1,161	930	.000	.000	.000	-.14	-.14	-.14				
b. SFotherwork	906	1.96	1.94	2.00	1.90	.033	.006	.012	.003	.99	1.00	.99	1.01	29,320	8,328	919	.576	.221	.110	.02	-.04	.05				
c. SFdiscuss	893	2.10	2.12	2.13	2.12	.029	.006	.010	.003	.87	.94	.90	.95	958	1,130	908	.497	.265	.351	-.02	-.04	-.03				
d. SFperform	894	1.96	2.11	2.02	2.15	.029	.005	.010	.003	.86	.91	.88	.93	957	8,274	908	.000	.066	.000	-.17	-.07	-.21				
4 a. memorize	881	2.68	2.84	2.77	2.79	.029	.005	.010	.003	.86	.87	.86	.89	28,855	8,204	123,018	.000	.003	.000	-.18	-.11	-.12				
b. HOapply	874	3.07	3.06	3.07	3.04	.027	.005	.009	.002	.79	.80	.78	.80	28,698	8,174	122,421	.712	.984	.373	.01	.00	.03				
c. HOanalyze	868	2.93	3.02	2.98	3.01	.028	.005	.009	.002	.83	.82	.81	.82	28,438	1,072	879	.001	.083	.005	-.12	-.06	-.10				
d. HOevaluate	854	2.55	2.87	2.77	2.92	.032	.005	.010	.002	.92	.88	.89	.86	902	1,047	864	.000	.000	.000	-.37	-.25	-.43				
e. HOform	851	2.78	2.93	2.84	2.94	.029	.005	.010	.002	.85	.84	.85	.83	902	8,042	861	.000	.040	.000	-.18	-.07	-.19				
5 a. ETgoals	837	3.05	3.12	3.09	3.11	.026	.005	.009	.002	.74	.78	.76	.79	893	1,051	849	.009	.141	.023	-.09	-.05	-.07				
b. ETorganize	834	3.05	3.02	3.06	3.02	.026	.005	.009	.002	.76	.82	.77	.83	895	7,960	847	.387	.583	.368	.03	-.02	.03				
c. ETexample	831	3.14	3.09	3.13	3.07	.027	.005	.009	.002	.77	.82	.78	.83	27,848	7,943	118,835	.090	.767	.020	.06	.01	.08				
d. ETdraftfb	829	2.54	2.70	2.55	2.73	.033	.006	.011	.003	.95	.96	.95	.96	27,767	7,928	118,594	.000	.735	.000	-.16	-.01	-.20				
e. ETfeedback	818	2.60	2.73	2.62	2.76	.032	.006	.010	.003	.90	.92	.88	.92	27,715	7,888	118,363	.000	.373	.000	-.15	-.03	-.18				
6 a. QRconclude	794	2.79	2.71	2.72	2.62	.032	.006	.011	.003	.90	.91	.90	.92	27,317	7,767	804	.023	.035	.000	.08	.08	.18				
b. QRproblem	789	2.38	2.46	2.46	2.41	.035	.006	.011	.003	.98	.97	.95	.96	27,188	7,742	116,372	.023	.023	.259	-.08	-.09	-.04				
c. QRevaluate	789	2.54	2.50	2.52	2.43	.032	.006	.011	.003	.89	.93	.89	.92	27,082	7,714	115,953	.268	.695	.001	.04	.01	.12				

# NSSE 2020 Frequencies and Statistical Comparisons

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

### Virginia Polytechnic Institute and State University

#### 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>		
														Comparisons with:			Comparisons with:			Comparisons with:						
	Virginia Tech	Virginia Tech	Carnegie Class	SCHEV Peers	NSSE 2020	Virginia Tech	Carnegie Class	SCHEV Peers	NSSE 2020	Virginia Tech	Carnegie Class	SCHEV Peers	NSSE 2020	Carnegie Class	SCHEV Peers	NSSE 2020	Carnegie Class	SCHEV Peers	NSSE 2020	Carnegie Class	SCHEV Peers	NSSE 2020				
7 a. wrshortnum	781	6.30	6.96	7.10	7.61	.226	.040	.077	.020	6.31	6.41	6.41	6.60	26,994	7,650	115,389	.005	.001	.000	-.10	-.12	-.20				
b. wrmednum	780	2.75	3.33	2.97	3.92	.133	.028	.049	.014	3.71	4.49	4.04	4.73	848	7,627	796	.000	.149	.000	-.13	-.05	-.25				
c. wrlongnum	779	1.75	1.98	1.65	2.30	.120	.025	.042	.012	3.34	3.97	3.47	4.15	845	7,650	795	.059	.465	.000	-.06	.03	-.13				
— wrpages	774	66.72	76.65	69.35	88.12	3.002	.618	1.061	.308	83.53	99.56	87.60	103.59	840	7,588	790	.001	.426	.000	-.10	-.03	-.21				
8 a. DDrace	778	3.15	3.20	3.10	3.09	.031	.005	.011	.003	.86	.88	.87	.92	26,952	7,640	115,276	.196	.123	.035	-.05	.06	.08				
b. DDeconomic	777	3.12	3.14	3.08	3.04	.029	.005	.010	.003	.81	.87	.83	.89	831	7,632	789	.413	.321	.006	-.03	.04	.09				
c. DDreligion	776	3.12	3.10	3.08	2.96	.029	.006	.010	.003	.82	.91	.86	.94	833	7,627	789	.372	.155	.000	.03	.05	.17				
d. DDpolitical	777	3.08	2.96	2.96	2.87	.030	.006	.011	.003	.83	.94	.90	.94	836	990	790	.000	.000	.000	.12	.13	.22				
9 a. LSreading	765	2.82	3.05	2.98	3.07	.030	.005	.010	.002	.83	.82	.82	.81	808	939	774	.000	.000	.000	-.28	-.19	-.30				
b. LSnotes	763	2.65	2.85	2.65	2.80	.034	.006	.011	.003	.94	.93	.93	.94	807	7,569	114,299	.000	.917	.000	-.21	.00	-.17				
c. LSsummary	761	2.56	2.84	2.67	2.83	.033	.006	.011	.003	.90	.91	.91	.91	26,744	7,563	114,286	.000	.002	.000	-.30	-.12	-.29				
10. challenge	754	5.28	5.44	5.31	5.50	.047	.008	.015	.004	1.28	1.33	1.27	1.31	801	7,533	113,655	.001	.535	.000	-.12	-.02	-.17				
11 a. intern <sup>l</sup>	751	.659	.506	.621	.480	.0173	.0031	.0059	.0015	--	--	--	--	--	--	--	.000	.044	.000	.31	.08	.36				
b. leader <sup>l</sup>	749	.585	.362	.520	.325	.0180	.0030	.0061	.0014	--	--	--	--	--	--	--	.000	.001	.000	.45	.13	.53				
c. learncom <sup>l</sup>	750	.285	.230	.288	.211	.0165	.0026	.0055	.0012	--	--	--	--	--	--	--	.000	.852	.000	.12	-.01	.17				
d. abroad <sup>l</sup>	749	.211	.161	.230	.130	.0149	.0023	.0051	.0010	--	--	--	--	--	--	--	.000	.247	.000	.13	-.05	.22				
e. research <sup>l</sup>	747	.343	.245	.320	.227	.0174	.0027	.0057	.0013	--	--	--	--	--	--	--	.000	.203	.000	.21	.05	.26				
f. capstone <sup>l</sup>	750	.498	.401	.426	.419	.0183	.0031	.0060	.0015	--	--	--	--	--	--	--	.000	.000	.000	.20	.14	.16				
12. servcourse	745	1.55	1.67	1.58	1.72	.021	.004	.008	.002	.57	.69	.65	.72	810	973	760	.000	.142	.000	-.18	-.05	-.25				
13 a. QIstudent	741	5.77	5.58	5.61	5.58	.043	.008	.015	.004	1.18	1.32	1.21	1.34	796	923	754	.000	.000	.000	.15	.13	.14				
b. QIadvisor	735	5.44	5.08	5.20	5.18	.058	.011	.021	.005	1.58	1.77	1.71	1.76	788	932	746	.000	.000	.000	.20	.14	.15				
c. QIfaculty	739	5.41	5.37	5.36	5.45	.045	.009	.016	.004	1.22	1.41	1.30	1.42	796	7,440	751	.470	.336	.316	.02	.04	-.03				
d. QIstaff	658	5.21	4.92	5.04	4.94	.057	.012	.020	.006	1.45	1.69	1.54	1.73	713	6,604	671	.000	.007	.000	.17	.11	.15				
e. QIadmin	668	4.95	4.81	4.94	4.94	.061	.011	.021	.005	1.58	1.71	1.58	1.72	713	6,586	678	.026	.892	.900	.08	.01	.00				
14 a. empstudy	738	3.19	3.17	3.16	3.14	.027	.005	.009	.002	.74	.76	.74	.77	26,194	7,446	111,717	.649	.345	.085	.02	.04	.06				
b. SEacademic	736	2.88	2.87	2.87	2.85	.030	.005	.010	.003	.81	.86	.82	.88	783	7,422	747	.852	.829	.441	.01	.01	.03				
c. SElearnsup	736	2.72	2.79	2.79	2.77	.033	.006	.011	.003	.91	.94	.89	.95	26,088	7,425	746	.028	.033	.090	-.08	-.08	-.06				
d. SEdiverse	738	2.54	2.66	2.57	2.55	.036	.006	.012	.003	.98	.99	.96	1.01	26,083	7,419	111,194	.001	.461	.780	-.12	-.03	-.01				
e. SEsocial	733	2.96	2.84	2.92	2.74	.031	.006	.010	.003	.85	.92	.85	.94	782	7,405	744	.001	.277	.000	.12	.04	.23				
f. SEwellness	732	2.83	2.74	2.77	2.65	.034	.006	.011	.003	.92	.96	.93	.97	777	7,395	742	.014	.100	.000	.09	.06	.18				

# NSSE 2020 Frequencies and Statistical Comparisons

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

### Virginia Polytechnic Institute and State University

#### 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>		
	Virginia Tech	Virginia Tech	Carnegie Class	SCHEV Peers	NSSE 2020	Virginia Tech	Carnegie Class	SCHEV Peers	NSSE 2020	Virginia Tech	Carnegie Class	SCHEV Peers	NSSE 2020	Comparisons with:			Comparisons with:			Comparisons with:						
														Carnegie Class	SCHEV Peers	NSSE 2020	Carnegie Class	SCHEV Peers	NSSE 2020	Carnegie Class	SCHEV Peers	NSSE 2020				
g. SEnonacad	732	2.02	2.09	1.99	2.06	.034	.006	.011	.003	.92	.98	.92	.98	780	7,397	742	.052	.448	.275	-.07	.03	-.04				
h. SEactivities	729	2.88	2.65	2.76	2.46	.032	.006	.011	.003	.87	.97	.89	.99	781	907	741	.000	.001	.000	.24	.13	.42				
i. SEevents	732	2.14	2.32	2.33	2.26	.033	.006	.011	.003	.89	.96	.89	.96	782	900	743	.000	.000	.000	-.19	-.21	-.12				
15 a. SBmyself	730	3.39	3.30	3.33	3.29	.026	.005	.014	.002	.71	.72	.71	.72	25,998	3,310	110,741	.001	.035	.000	.13	.09	.14				
b. SBvalued	731	2.76	2.85	2.90	2.88	.033	.005	.016	.003	.88	.86	.82	.86	771	1,116	739	.005	.000	.000	-.11	-.17	-.14				
c. SBcommunity	730	3.07	2.94	3.02	2.91	.030	.005	.016	.003	.82	.84	.81	.84	25,981	3,305	110,698	.000	.118	.000	.16	.07	.19				
16 a. tmprephrs	727	17.33	15.20	15.83	15.12	.347	.056	.110	.027	9.35	8.88	8.97	8.88	765	7,373	735	.000	.000	.000	.24	.17	.25				
b. tmcocurrhrs	726	6.94	5.34	6.44	4.80	.266	.045	.086	.021	7.16	7.07	7.04	7.05	25,840	7,366	110,137	.000	.071	.000	.23	.07	.30				
c. tmworkonhrs	727	3.60	3.81	5.56	3.26	.252	.046	.098	.020	6.80	7.28	8.01	6.77	775	961	110,115	.395	.000	.178	-.03	-.25	.05				
d. tmworkoffhrs	727	3.92	11.26	6.75	12.37	.288	.080	.123	.039	7.75	12.62	10.04	12.99	841	1,013	753	.000	.000	.000	-.59	-.29	-.65				
— tmworkhrs	726	7.51	15.05	12.30	15.61	.374	.083	.140	.040	10.09	13.21	11.37	13.36	799	939	742	.000	.000	.000	-.57	-.43	-.61				
e. tmservicehrs	729	2.29	3.21	2.62	3.23	.159	.036	.057	.017	4.29	5.68	4.67	5.70	803	928	745	.000	.050	.000	-.16	-.07	-.16				
f. tmrelaxhrs	724	12.93	11.75	13.05	11.23	.311	.053	.102	.025	8.38	8.39	8.34	8.29	25,831	7,357	110,139	.000	.713	.000	.14	-.01	.21				
g. tmcarehrs	728	.70	4.32	1.81	5.67	.128	.058	.073	.032	3.46	9.25	5.97	10.55	1,059	1,266	820	.000	.000	.000	-.40	-.19	-.47				
h. tmcommutehrs	725	4.29	5.81	4.76	5.57	.152	.041	.063	.020	4.10	6.46	5.14	6.60	831	991	749	.000	.005	.000	-.24	-.09	-.19				
17. reading	724	2.21	2.66	2.49	2.80	.042	.008	.014	.004	1.12	1.20	1.17	1.20	771	903	734	.000	.000	.000	-.38	-.24	-.50				
— tmreadinghrs	722	5.30	6.58	6.02	7.11	.172	.038	.066	.019	4.63	6.09	5.39	6.38	795	949	740	.000	.000	.000	-.21	-.13	-.28				
18 a. pgwrite	724	2.71	2.93	2.89	2.99	.034	.006	.011	.003	.90	.91	.89	.89	766	884	733	.000	.000	.000	-.25	-.21	-.32				
b. pgspeak	720	2.84	2.88	2.83	2.89	.033	.006	.011	.003	.90	.93	.93	.93	25,766	7,332	109,757	.177	.903	.107	-.05	.00	-.06				
c. pgthink	723	3.31	3.29	3.35	3.29	.028	.005	.009	.002	.75	.78	.77	.78	25,773	7,338	109,802	.460	.217	.409	.03	-.05	.03				
d. pganalyze	721	3.11	3.00	3.04	2.88	.034	.006	.011	.003	.91	.94	.93	.97	25,766	7,343	731	.003	.078	.000	.11	.07	.23				
e. pgwork	722	2.98	2.90	2.94	2.88	.036	.006	.012	.003	.96	.97	.95	.97	765	7,335	731	.027	.308	.007	.08	.04	.10				
f. pgothers	721	3.11	3.06	3.07	3.01	.031	.006	.010	.003	.84	.87	.85	.89	25,762	7,338	109,722	.128	.274	.006	.06	.04	.10				
g. pgvalues	723	2.66	2.78	2.71	2.81	.036	.006	.012	.003	.96	1.00	.99	.98	25,731	7,337	109,676	.001	.153	.000	-.12	-.06	-.16				
h. pgdiverse	723	2.61	2.89	2.82	2.84	.034	.006	.012	.003	.92	.96	.94	.97	25,765	7,337	109,735	.000	.000	.000	-.29	-.22	-.24				
i. pgprobsolve	721	2.87	2.86	2.89	2.82	.034	.006	.011	.003	.92	.95	.92	.95	25,762	7,341	730	.713	.578	.137	.01	-.02	.05				
j. pgcitizen	720	2.42	2.68	2.65	2.69	.036	.006	.012	.003	.97	1.00	.98	.99	25,775	7,348	109,882	.000	.000	.000	-.27	-.23	-.28				
19. evalexp	731	3.23	3.20	3.29	3.18	.029	.005	.009	.002	.79	.78	.75	.79	25,905	7,365	110,338	.291	.045	.079	.04	-.08	.07				
20. sameinst	736	3.35	3.22	3.32	3.18	.030	.005	.010	.003	.81	.84	.78	.85	26,002	7,386	110,648	.000	.292	.000	.16	.04	.20				

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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."