

## 2018 Topical Module: Learning with Technology

### Profile of Participating Institutions and Respondents and All Bachelor's-Granting U.S. Institutions and Students

Topical modules are short sets of questions on a topic related to current issues in higher education and student engagement that may be appended to the core survey. The **Learning with Technology** module examines the role of technology in student learning, focusing on student use of technology and perceptions of institutional support. In 2018, 21 U.S. institutions elected to append these items to the core survey. Of these, 20 belonged to one of the eight Carnegie classifications shown in the table below.<sup>a</sup>

The institutions and respondents participating in a given module are only a subset of all NSSE participating institutions and respondents. The table below displays the characteristics for module participants alongside NSSE 2018 participants as well as all bachelor's-granting U.S. institutions and students (all limited to the eight indicated Carnegie Classification categories).

	Institutions			Students		
	Learning w/ Tech Module  (%)	NSSE 2018  (%)	U.S. <sup>b</sup>  (%)	Learning w/ Tech Module  (%)	NSSE 2018  (%)	U.S. <sup>b</sup>  (%)
<b>Carnegie Basic Classification<sup>c</sup></b>						
R1: Doctoral Universities - Highest research activity	0	5	7	0	15	27
R2: Doctoral Universities - Higher research activity	10	8	6	14	16	14
R3: Doctoral Universities - Moderate research activity	5	8	7	4	14	10
M1: Master's Colleges and Universities - Larger programs	35	27	24	41	29	28
M2: Master's Colleges and Universities - Medium programs	15	17	13	12	10	7
M3: Master's Colleges and Universities - Smaller programs	15	8	8	12	4	3
Baccalaureate Colleges: Arts & Sciences Focus	5	16	15	2	8	4
Baccalaureate Colleges: Diverse Fields	15	11	19	14	4	5
<b>Control</b>						
Public	35	39	35	51	57	67
Private	65	61	65	49	43	33
<b>Undergraduate enrollment</b>						
Fewer than 1,000	10	12	22	4	3	2
1,000 – 2,499	30	33	32	16	14	10
2,500 – 4,999	35	23	18	35	18	11
5,000 – 9,999	25	16	14	45	20	18
10,000 – 19,999	0	9	9	0	20	24
20,000 or more	0	6	6	0	25	35

a. All numbers are unweighted and based on U.S. postsecondary institutions that award bachelor's degrees and belong to one of the eight Carnegie Classification categories in the table. Totals may not sum to 100% due to rounding.

b. U.S. percentages are based on the 2015 IPEDS Institutional Characteristics file.

c. For information on the Carnegie Foundation's Basic Classification, see [carnegieclassifications.iu.edu](http://carnegieclassifications.iu.edu)

# NSSE 2018 Topical Modules

## U.S. Summary Frequencies by Class and Sex

### Learning with Technology

#### First-Year Students

#### Seniors

Item wording or description	Variable name	Response options	Female		Male		Total		Female		Male		Total	
			Count	%	Count	%	Count	%	Count	%	Count	%	Count	%
<b>1. During the current school year, how much has your use of technology contributed to the following:</b>														
a. Your understanding of course materials and ideas	TEC01a	Very little	38	2	25	4	63	3	60	2	35	3	95	2
		Some	254	13	122	17	376	15	386	12	176	12	562	12
		Quite a bit	770	40	331	43	1,101	41	1,046	34	452	35	1,498	34
		Very much	796	44	268	36	1,064	41	1,597	53	627	50	2,224	52
		Total	1,858	100	746	100	2,604	100	3,089	100	1,290	100	4,379	100
b. Demonstrating your understanding of course content	TEC01b	Very little	43	2	29	4	72	3	76	2	41	3	117	3
		Some	301	16	149	21	450	18	428	14	191	14	619	14
		Quite a bit	816	43	338	44	1,154	43	1,118	36	485	38	1,603	37
		Very much	683	39	225	30	908	35	1,448	48	566	45	2,014	47
		Total	1,843	100	741	100	2,584	100	3,070	100	1,283	100	4,353	100
c. Learning, studying, or completing coursework on your own	TEC01c	Very little	22	2	13	2	35	2	35	1	25	2	60	1
		Some	169	9	87	13	256	11	223	7	126	10	349	8
		Quite a bit	646	34	308	40	954	36	911	29	415	32	1,326	30
		Very much	1,017	55	335	45	1,352	51	1,912	63	724	56	2,636	60
		Total	1,854	100	743	100	2,597	100	3,081	100	1,290	100	4,371	100
d. Learning, studying, or completing coursework with other students	TEC01d	Very little	128	8	69	12	197	9	235	8	125	11	360	9
		Some	418	23	176	24	594	24	577	19	263	20	840	19
		Quite a bit	674	35	298	39	972	37	970	31	414	32	1,384	32
		Very much	636	34	200	25	836	31	1,297	42	483	37	1,780	40
		Total	1,856	100	743	100	2,599	100	3,079	100	1,285	100	4,364	100
e. Distracting you from completing your coursework	TEC01e	Very little	295	18	123	18	418	18	718	26	272	22	990	24
		Some	732	39	266	36	998	38	1,166	37	490	38	1,656	37
		Quite a bit	513	26	217	28	730	27	734	23	303	23	1,037	23
		Very much	312	17	138	18	450	17	474	15	219	17	693	15
		Total	1,852	100	744	100	2,596	100	3,092	100	1,284	100	4,376	100
<b>2. During the current school year, how much have your courses improved your understanding and use of technology?</b>														
	TEC02	Very little	258	15	114	16	372	15	427	14	181	14	608	14
		Some	621	33	268	37	889	34	1,033	32	396	30	1,429	31
		Quite a bit	622	32	224	30	846	31	912	30	405	32	1,317	30
		Very much	349	20	131	17	480	19	692	24	299	24	991	24
		Total	1,850	100	737	100	2,587	100	3,064	100	1,281	100	4,345	100
<b>3. During the current school year, about how often have you used the following technologies in your courses?</b>														
a. Electronic textbooks	TEC03a	Never	428	22	154	21	582	22	907	28	315	23	1,222	26
		Sometimes	604	32	266	36	870	34	1,002	33	402	30	1,404	32
		Often	457	24	198	25	655	25	555	18	281	22	836	20
		Very often	357	20	126	18	483	19	604	20	280	24	884	22
		I don't know what this is	9	1	5	1	14	1	14	1	7	0	21	0
	Total	1,855	100	749	100	2,604	100	3,082	100	1,285	100	4,367	100	
b. Online portfolios or e-portfolios	TEC03b	Never	759	41	275	37	1,034	40	1,283	41	503	39	1,786	40
		Sometimes	438	23	228	31	666	26	739	25	352	27	1,091	25
		Often	198	10	110	14	308	12	353	11	171	14	524	12
		Very often	132	7	51	7	183	7	287	9	114	10	401	9
		I don't know what this is	326	18	83	11	409	15	416	14	142	11	558	13
	Total	1,853	100	747	100	2,600	100	3,078	100	1,282	100	4,360	100	
c. Blogs	TEC03c	Never	1,208	65	449	62	1,657	64	1,895	61	730	57	2,625	59
		Sometimes	401	21	181	25	582	22	759	25	350	26	1,109	26
		Often	116	6	65	8	181	7	223	7	111	9	334	8
		Very often	97	5	35	4	132	5	166	5	74	7	240	6
		I don't know what this is	30	2	15	2	45	2	33	1	16	1	49	1
	Total	1,852	100	745	100	2,597	100	3,076	100	1,281	100	4,357	100	

Note: Results weighted by institution-reported sex, enrollment status, and institution size. Counts are not weighted.

# NSSE 2018 Topical Modules

## U.S. Summary Frequencies by Class and Sex

### Learning with Technology

#### First-Year Students

#### Seniors

Item wording or description	Variable name	Response options	First-Year Students				Seniors							
			Female		Male		Total		Female		Male		Total	
			Count	%	Count	%	Count	%	Count	%	Count	%		
d. Collaborative editing software (Wikis, Google Docs, etc.)	TEC03d	Never	230	14	137	21	367	17	485	16	207	17	692	16
		Sometimes	532	27	241	33	773	30	842	28	421	33	1,263	30
		Often	548	29	214	28	762	29	796	25	336	25	1,132	25
		Very often	534	29	148	18	682	24	938	30	314	24	1,252	28
		I don't know what this is	11	1	6	1	17	1	20	1	5	0	25	1
		Total	1,855	100	746	100	2,601	100	3,081	100	1,283	100	4,364	100
e. Multimedia software (drawing, audio or video production, editing, etc.)	TEC03e	Never	976	53	321	45	1,297	50	1,448	47	514	40	1,962	44
		Sometimes	477	25	223	30	700	27	873	28	382	29	1,255	29
		Often	226	12	121	15	347	13	368	12	205	16	573	13
		Very often	150	9	67	8	217	9	365	12	173	14	538	13
		I don't know what this is	21	1	13	2	34	2	27	1	9	1	36	1
		Total	1,850	100	745	100	2,595	100	3,081	100	1,283	100	4,364	100
f. Social networking (Facebook, Twitter, etc.)	TEC03f	Never	696	40	302	46	998	42	1,205	41	517	43	1,722	42
		Sometimes	507	26	205	26	712	26	923	29	385	29	1,308	29
		Often	298	15	124	15	422	15	436	13	193	15	629	14
		Very often	349	18	112	13	461	16	495	16	176	13	671	15
		I don't know what this is	5	1	2	0	7	0	9	0	8	1	17	1
		Total	1,855	100	745	100	2,600	100	3,068	100	1,279	100	4,347	100
g. Mobile computing (handheld devices such as smartphones, tablets, etc.)	TEC03g	Never	186	11	69	12	255	11	329	11	150	12	479	11
		Sometimes	569	31	259	35	828	32	921	30	377	29	1,298	30
		Often	487	25	210	26	697	25	792	26	369	29	1,161	27
		Very often	606	33	207	27	813	31	1,021	33	383	29	1,404	32
		I don't know what this is	4	0	1	0	5	0	5	0	4	0	9	0
		Total	1,852	100	746	100	2,598	100	3,068	100	1,283	100	4,351	100

#### 4. During the current school year, about how often have you used technology to communicate with the following people?

a. Students	TEC04a	Never	29	3	16	3	45	3	49	2	28	2	77	2
		Sometimes	202	11	121	18	323	14	355	13	187	15	542	13
		Often	424	23	221	29	645	25	668	22	331	26	999	23
		Very often	1,194	63	385	50	1,579	58	2,003	64	735	57	2,738	61
		Total	1,849	100	743	100	2,592	100	3,075	100	1,281	100	4,356	100
b. Academic advisors	TEC04b	Never	96	6	37	6	133	6	174	6	80	6	254	6
		Sometimes	529	28	276	38	805	32	693	23	389	30	1,082	26
		Often	637	34	253	34	890	34	955	31	427	33	1,382	32
		Very often	585	32	180	23	765	28	1,249	40	390	31	1,639	37
		Total	1,847	100	746	100	2,593	100	3,071	100	1,286	100	4,357	100
c. Faculty	TEC04c	Never	93	5	49	7	142	6	118	4	55	5	173	5
		Sometimes	529	28	261	37	790	32	649	21	359	28	1,008	24
		Often	645	35	259	34	904	34	1,003	32	429	33	1,432	33
		Very often	582	32	175	22	757	28	1,297	42	440	34	1,737	39
		Total	1,849	100	744	100	2,593	100	3,067	100	1,283	100	4,350	100
d. Student services staff (career services, student activities, housing, etc.)	TEC04d	Never	443	25	175	26	618	25	1,072	36	404	32	1,476	34
		Sometimes	647	34	288	39	935	36	884	28	418	32	1,302	29
		Often	410	21	172	21	582	21	492	16	257	20	749	17
		Very often	346	19	111	15	457	17	624	20	205	17	829	19
		Total	1,846	100	746	100	2,592	100	3,072	100	1,284	100	4,356	100
e. Other administrative staff and offices (registrar, financial aid, etc.)	TEC04e	Never	401	22	159	23	560	22	650	22	254	21	904	21
		Sometimes	738	39	310	43	1,048	41	1,208	38	532	41	1,740	39
		Often	390	21	163	20	553	20	593	19	288	23	881	20
		Very often	321	18	108	14	429	17	618	21	202	16	820	19
		Total	1,850	100	740	100	2,590	100	3,069	100	1,276	100	4,345	100

Note: Results weighted by institution-reported sex, enrollment status, and institution size. Counts are not weighted.

## NSSE 2018 Topical Modules

### U.S. Summary Frequencies by Class and Sex

### Learning with Technology

Item wording or description	Variable name	Response options	First-Year Students						Seniors					
			Female		Male		Total		Female		Male		Total	
			Count	%	Count	%	Count	%	Count	%	Count	%	Count	%
<b>5. How much does your institution emphasize the following?</b>														
a. Teaching with new, cutting-edge technologies	TEC05a	Very little	266	15	104	16	370	15	498	17	224	17	722	17
		Some	761	41	290	39	1,051	40	1,129	36	481	38	1,610	37
		Quite a bit	611	33	242	32	853	32	946	31	391	31	1,337	31
		Very much	210	12	104	13	314	12	480	16	180	15	660	16
		Total	1,848	100	740	100	2,588	100	3,053	100	1,276	100	4,329	100
b. Providing technology to help you learn, study or complete coursework	TEC05b	Very little	149	9	73	11	222	10	328	11	166	13	494	12
		Some	539	29	221	31	760	30	924	30	406	32	1,330	31
		Quite a bit	750	40	295	39	1,045	39	1,075	34	466	36	1,541	35
		Very much	396	22	147	19	543	21	735	24	242	19	977	22
		Total	1,834	100	736	100	2,570	100	3,062	100	1,280	100	4,342	100
c. Teaching you how to use available technologies to learn, study, or complete coursework	TEC05c	Very little	168	10	74	10	242	10	378	13	171	13	549	13
		Some	621	34	233	32	854	33	1,045	34	417	32	1,462	33
		Quite a bit	714	37	290	39	1,004	38	1,004	32	463	36	1,467	34
		Very much	338	19	143	19	481	19	633	21	224	18	857	20
		Total	1,841	100	740	100	2,581	100	3,060	100	1,275	100	4,335	100
d. Providing support services to assist you with your use of technology	TEC05d	Very little	162	9	68	10	230	10	471	16	197	15	668	15
		Some	630	34	247	35	877	34	1,109	36	476	37	1,585	36
		Quite a bit	689	36	295	38	984	37	918	30	410	32	1,328	31
		Very much	358	21	130	16	488	19	567	19	195	15	762	18
		Total	1,839	100	740	100	2,579	100	3,065	100	1,278	100	4,343	100

Note: Results weighted by institution-reported sex, enrollment status, and institution size. Counts are not weighted.

# NSSE 2018 Topical Modules

## U.S. Summary Means and Standard Deviations by Class and Sex

### Learning with Technology

Item wording or description	Variable name	First-Year Students						Seniors					
		Female		Male		Total		Female		Male		Total	
		Mean	SD	Mean	SD	Mean	SD	Mean	SD	Mean	SD	Mean	SD
<b>1. During the current school year, how much has your use of technology contributed to the following:</b>													
a. Your understanding of course materials and ideas	TEC01a	3.26	.77	3.12	.82	3.20	.79	3.38	.76	3.32	.79	3.36	.77
b. Demonstrating your understanding of course content	TEC01b	3.18	.78	3.00	.83	3.11	.81	3.30	.79	3.26	.80	3.29	.79
c. Learning, studying, or completing coursework <b>on your own</b>	TEC01c	3.43	.72	3.28	.77	3.37	.74	3.54	.67	3.43	.75	3.49	.70
d. Learning, studying, or completing coursework <b>with other students</b>	TEC01d	2.96	.94	2.77	.95	2.89	.95	3.07	.97	2.96	1.00	3.03	.98
e. Distracting you from completing your coursework	TEC01e	2.42	.96	2.45	.98	2.43	.97	2.26	1.00	2.34	1.00	2.29	1.00
<b>2. During the current school year, how much have your courses improved your understanding and use of technology?</b>													
	TEC02	2.58	.97	2.48	.96	2.54	.97	2.65	1.00	2.66	1.00	2.65	1.00
<b>3. During the current school year, about how often have you used the following technologies in your courses?</b>													
a. Electronic textbooks	TEC03a	2.43	1.05	2.40	1.01	2.42	1.03	2.31	1.09	2.47	1.10	2.37	1.09
b. Online portfolios or e-portfolios	TEC03b	1.80	.98	1.90	.94	1.84	.96	1.86	1.00	1.94	1.01	1.89	1.01
c. Blogs	TEC03c	1.51	.84	1.53	.80	1.52	.83	1.56	.84	1.65	.91	1.59	.87
d. Collaborative editing software (Wikis, Google Docs, etc.)	TEC03d	2.74	1.03	2.42	1.01	2.61	1.03	2.69	1.07	2.57	1.03	2.65	1.06
e. Multimedia software (drawing, audio or video production, editing, etc.)	TEC03e	1.76	.97	1.86	.96	1.80	.97	1.89	1.03	2.04	1.06	1.95	1.05
f. Social networking (Facebook, Twitter, etc.)	TEC03f	2.12	1.13	1.95	1.06	2.05	1.10	2.03	1.09	1.98	1.05	2.01	1.07
g. Mobile computing (handheld devices such as smartphones, tablets, etc.)	TEC03g	2.80	1.02	2.70	1.00	2.76	1.01	2.82	1.02	2.75	1.01	2.79	1.01
<b>4. During the current school year, about how often have you used technology to communicate with the following people?</b>													
a. Students	TEC04a	3.46	.80	3.25	.87	3.38	.83	3.48	.78	3.37	.82	3.44	.80
b. Academic advisors	TEC04b	2.92	.91	2.74	.87	2.85	.90	3.05	.94	2.89	.91	2.99	.93
c. Faculty	TEC04c	2.93	.90	2.71	.89	2.84	.90	3.12	.89	2.97	.90	3.06	.90
d. Student services staff (career services, student activities, housing, etc.)	TEC04d	2.34	1.06	2.24	.99	2.30	1.03	2.20	1.14	2.22	1.07	2.21	1.11
e. Other administrative staff and offices (registrar, financial aid, etc.)	TEC04e	2.36	1.02	2.25	.97	2.31	1.00	2.39	1.04	2.34	.98	2.37	1.02
<b>5. How much does your institution emphasize the following?</b>													
a. Teaching with new, cutting-edge technologies	TEC05a	2.42	.88	2.43	.91	2.42	.89	2.47	.95	2.44	.93	2.46	.95
b. Providing technology to help you learn, study or complete coursework	TEC05b	2.75	.90	2.67	.91	2.71	.90	2.71	.95	2.61	.94	2.67	.95
c. Teaching you how to use available technologies to learn, study, or complete coursework	TEC05c	2.66	.90	2.66	.90	2.66	.90	2.62	.96	2.60	.93	2.61	.95
d. Providing support services to assist you with your use of technology	TEC05d	2.69	.90	2.61	.88	2.66	.89	2.52	.97	2.48	.93	2.50	.95

Notes: Results weighted by sex, enrollment status, and institution size. See codebook for variable ranges. Categorical items are not listed.