

NSSE 2021 Topical Module Report Experiences with Online Learning

The University of Toledo

This module, new for the 2021 administration, was developed in collaboration with Quality Matters, a leader in online instruction. Based in part on Standards for the Quality Matters Higher Education Rubric (6th Ed.), the item set measures instructional aspects that experts consider to be ideal for online courses. The set also assesses how students engage in both online and hybrid courses, their degree of comfort with online learning and experience of support, and ideas about how the learning experience can be improved.

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Frequencies and Statistical Comparisons The University of Toledo

				Frequenc	y Di	stributio	ns ^a	Statistical (Compar	isons
				UToledo		NSSE Pub	lic	UToledo	NSSE	Public
Item wording or description	Variable name	Values ^c	Response options	Count	%	Count	%	Mean	Mean	Effect size ^d
L. During the current school year,	to what exter	nt have yo	ur entirely or partly o	nline courses pro	vided	the followin	ıg?			
a. Clearly stated learning objectives	EOL01a	0	Not at all	11	2	39	1			
or goals		1	Very little	37	6	266	6			
		2	Some	136	23	1,207	24	2.8	2.9	07
		3	Quite a bit	259	43	2,028	41			
		4	Very much	151	25	1,276	28			
			Total	594	100	4,816	100			
b. Clear guidance about how to get	EOL01b	0	Not at all	10	2	61	1			
started in the course		1	Very little	43	7	353	7			
		2	Some	178	32	1,311	27	2.7	2.8 *	10
		3	Quite a bit	228	38	1,884	39		∇	
		4	Very much	134	22	1,189	26			
			Total	593	100	4,798	100			
c. A clearly stated grading policy	EOL01c	0	Not at all	5	1	31	1			
		1	Very little	21	4	172	4			
		2	Some	119	20	900	17	3.0	3.1 *	10
		3	Quite a bit	250	43	1,915	39		∇	.10
		4	Very much	200	33	1,793	39		ď	
			Total	595	100	4,811	100			
d. Course information and activities	EOL01d	0	Not at all	7	1	66	1			
that are easy to locate	202014	1	Very little	41	7	289	6			
		2	Some	174	30	1,291	27	2.8	2.9 *	10
		3	Quite a bit	218	37	1,849	38	2.0	2.9 *	10
		4	Very much	155	24	1,315	28		v	
		7	Total	595	100	4,810	100			
e. Sufficient instructions for using	EOL01e	0	Not at all	12	2	76	2			
technology	LOLDIC	1	Very little	59	10	369	7			
		2	Some	162	28	1,372	28	2.7	20 *	00
		3	Ouite a bit	219	38	1,811	37	4.1	2.8 *	09
		4	Very much	143	23	1,180	26		∇	
		4	Total	595	100	4,808	100			
f. Clarity about when instructors	EOL01f	0	Not at all	8	100	70	100			
would respond to you (answers to	EOLUII					391				
your questions, feedback about		1	Very little	66	11		8	2.7		
coursework, etc.)		2	Some	162	27	1,271	26	2.7	2.8 *	11
		3	Quite a bit	217	38	1,826	37		∇	
		4	Very much	141	23	1,252	27			
CI C	EOI 01		Total	594	100	4,810	100			
g. Clear expectations for your interactions with other students	EOL01g	0	Not at all	22	4	172	4			
meractions with other students		1	Very little	79	13	578	12			
		2	Some	160	28	1,315	27	2.5	2.6	07
		3	Quite a bit	204	34	1,570	32			
		4	Very much	129	21	1,170	25			
			Total	594	100	4,805	100			



Frequencies and Statistical Comparisons The University of Toledo

				Frequen	cy Di	istributio	ns ^a	Statistical (Compar	isons ^b
				UToledo)	NSSE Pub	lic	UToledo	NSSE I	Public
Item wording or description	Variable name	Values ^c	Response options	Count	%	Count	%	Mean	Mean	Effect size ^d
h. Assessments (quizzes, projects,	EOL01h	0	Not at all	10	2	52	1	Wedii	iviean	SIZE
assignments, exams, etc.) that help	2020111	1	Very little	32	6	215	5			
you achieve course learning		2	Some	113	20	1,000	21	3.0	3.0	05
objectives or goals		3	Quite a bit	238	41	1,928	39	3.0	3.0	03
		4	Very much	202	33	1,615	34			
		•	Total	595	100	4,810	100			
i. Instructional materials (readings,	EOL01i	0	Not at all	8	2	36	1			
videos, etc.) that help you achieve	LOLOII	1	Very little	25	4	217	4			
course learning objectives or goals		2	Some	140	25	1,013	21	2.9	2.0	00
		3	Ouite a bit	230	38	1,981	41	2.9	3.0	08
		4	Very much	190	31	1,559	33			
		4	Total	593	100	4,806	100			
2. During the current school year,						•				
Live sessions including the instructor and students	EOL02a	1	None	30	5	199	5			
instructor and students		2	Some	122	20	1,418	28			
		3	Most	317	53	2,206	45	2.9	2.9	.07
		4	All	125	22	982	23			
			Total	594	100	4,805	100			
b. Pre-recorded presentations by the	EOL02b	1	None	73	12	533	14			
instructor		2	Some	345	58	2,527	52			
		3	Most	120	20	1,302	25	2.3	2.3	03
		4	All	56	9	440	9			
			Total	594	100	4,802	100			
c. Presentations or talks by experts in	EOL02c	1	None	191	32	1,314	27			
the field (live or recorded)		2	Some	265	45	2,325	48			
		3	Most	96	17	822	17	2.0	2.0 *	09
		4	All	38	6	337	7		∇	
			Total	590	100	4,798	100			
d. Group projects or presentations	EOL02d	1	None	136	23	999	23			
		2	Some	358	60	2,695	55			
		3	Most	71	12	830	17	2.0	2.1 *	09
		4	All	30	5	272	6		∇	
			Total	595	100	4,796	100		· ·	
e. Interaction among students in small	EOL02e	1	None	90	15	478	11			
groups or breakout rooms		2	Some	358	60	2,324	48			
		3	Most	105	18	1,496	30	2.2	2.4 ***	*30
		4	All	40	7	502	11		▽	.50
			Total	593	100	4,800	100		Ť	



Frequencies and Statistical Comparisons The University of Toledo

				Frequen	cy Di	istributio	ns ^a	Statistical (oledo NSSE Public		
				UToledo)	NSSE Pub	lic	UToledo	NSSE	Public	
Item wording or description	Variable name	Values ^c	Response options	Count	%	Count	%	Mean	Mean	Effect size ^d	
f. Frequent quizzes or short	EOL02f	1	None	13	2	92	2				
assignments to check your		2	Some	149	26	1,368	30				
understanding		3	Most	301	50	2,240	46	2.9	2.9	.05	
		4	All	131	22	1,099	22				
			Total	594	100	4,799	100				
g. Coursework that challenges you to	EOL02g	1	None	10	2	69	1				
enhance your knowledge, skills,		2	Some	123	22	1,115	23				
and abilities		3	Most	294	49	2,334	49	3.0	3.0	.02	
		4	All	167	27	1,281	27				
			Total	594	100	4,799	100				
h. Opportunities for personalized	EOL02h	1	None	35	6	189	4				
feedback, support, and guidance		2	Some	215	37	1,791	37				
from the instructor		3	Most	233	39	1,884	39	2.7	2.7	06	
		4	All	112	18	932	20				
			Total	595	100	4,796	100				
i. Opportunities to apply your	EOL02i	1	None	63	11	395	8				
learning to a real-world problem or		2	Some	263	44	2,237	46				
issue		3	Most	179	30	1,515	32	2.5	2.5	03	
		4	All	86	15	645	14				
			Total	591	100	4,792	100				
. During the current school year,	how comforta	able have	you been doing the follow	wing in your e	ntirel	y or partly o	nline co	ourses?			
a. Participating in online discussion	EOL03a	1	Not at all comfortable	20	4	157	3				
boards, forums, or other discussion		2		28	5	254	6				
tools		3		53	9	569	12				
		4		127	22	1,147	24	4.6	4.5	.08	
		5		168	28	1,253	26		7.5	.00	
		6	Very comfortable	191	31	1,380	28				
		_	Not appliable	8	2	34	1				
			Total	595	100	4,794	100				
b. Participating in live course	EOL03b	1	Not at all comfortable	28	5	271	6				
discussions		2		54	9	435	9				
		3		124	21	790	16				
		4		131	22	1,310	27	4.0	4.1	04	
		5		131	22	1,024	21	•••	7.1	.01	
		6	Very comfortable	103	17	844	19				
		_	Not appliable	21	4	117	3				
			Total	592	100	4,791	100				
c. Taking proctored online exams	EOL03c	1	Not at all comfortable	63	11	506	11				
		2		54	9	414	8				
		3		98	16	651	13				
		4		116	21	1,020	21	3.9	3.9	04	
		5		107	18	959	20	3.7	3.9	04	
		6	Very comfortable	119	19	914	20				
		_	Not appliable	33	6	327	7				



Frequencies and Statistical Comparisons The University of Toledo

				Frequen	cy Di	stributio	ns ^a	Statistical C	ompai	risons
				UToledo)	NSSE Pub	lic	UToledo	NSSE	Public
Item wording or description	Variable name	Values ^c	Response options	Count	%	Count	%	Mean	Mean	Effect size ^d
d. Interacting with other students in	EOL03d	1	Not at all comfortable	21	3	215	5		Weari	3/20
the course		2		67	11	457	9			
		3		97	16	803	17			
		4		159	27	1,288	26	4.1	4.1	03
		5		138	23	1,099	23			
		6	Very comfortable	98	17	885	19			
		_	Not appliable	13	2	45	1			
			Total	593	100	4,792	100			
e. Interacting with your instructor to	EOL03e	1	Not at all comfortable	19	4	152	3			
discuss course topics, ideas, or		2		45	7	343	7			
concepts		3		101	17	706	14			
		4		155	26	1,284	27	4.2	4.3	08
		5		142	25	1,233	26			
		6	Very comfortable	119	20	1,042	23			
		_	Not appliable	10	2	29	1			
			Total	591	100	4,789	100			
f. Using learning support services	EOL03f	1	Not at all comfortable	40	7	402	9			
(tutoring services, writing center,		2		81	14	596	12			
etc.)		3		113	20	842	17			
		4		128	21	986	20	3.7	3.8	08
		5		83	14	795	17			
		6	Very comfortable	79	13	715	15			
		_	Not appliable	68	11	449	10			
			Total	592	100	4,785	100			
g. Seeking feedback and guidance	EOL03g	1	Not at all comfortable	24	4	196	4			
from your instructor		2		43	7	381	8			
		3		92	15	693	14			
		4		156	27	1,233	25	4.2	4.3	06
		5		141	24	1,153	25			
		6	Very comfortable	123	20	1,067	23			
		_	Not appliable	14	3	68	1			
			Total	593	100	4,791	100			
1. To improve the online course-ta	aking experier	nce, how i	mportant is it that your i	nstitution do	the fol	lowing?				
			Not at all important			315	7			
students		2	Somewhat important	188	32	1,446	31			
		3	Important	214	37	1,841	38	2.8	2.8	03
		4	Very important	139	24	1,185	24			
			Total	586	100	4,787	100			
b. Increase interactions with	EOL04b	1	Not at all important	16	3	90	2			
instructors		2	Somewhat important	120	20	914	19			
		3	Important	262	45	2,219	46	3.1	3.1	03
		4	Very important	191	31	1,559	32			
			Total	589	100	4,782	100			



Frequencies and Statistical Comparisons The University of Toledo

First-Year Students

				Frequency Distributions ^a				Statistical C	Comparisons ^b		
				UToledo)	NSSE Pub	lic	UToledo	NSSE	Public	
Item wording or description	Variable name	Values ^c	Response options	Count	%	Count	%	Mean	Mean	Effect size ^d	
c. Improve responsiveness of	EOL04c	1	Not at all important	19	4	106	3				
instructors		2	Somewhat important	109	19	831	18				
		3	Important	236	40	2,031	42	3.1	3.2	06	
		4	Very important	223	37	1,811	38				
			Total	587	100	4,779	100				
d. Improve online tools for student	EOL04d	1	Not at all important	25	5	136	3				
collaboration		2	Somewhat important	110	18	1,003	21				
		3	Important	253	42	2,094	43	3.1	3.1	.02	
		4	Very important	200	34	1,548	33				
			Total	588	100	4,781	100				
e. Provide more online learning	EOL04e	1	Not at all important	37	7	219	5				
support services (tutoring services,		2	Somewhat important	179	31	1,334	27				
writing center, etc.)		3	Important	239	41	1,960	41	2.8	2.9 **	13	
		4	Very important	130	22	1,260	26		∇		
			Total	585	100	4,773	100				

5. Please describe one way online learning at your institution could be improved and one thing that should not be changed.

This final question asked students to respond in an open text box. Comments were recorded for 400 first-year students and 416 seniors. Responses are provided in your NSSE21 Student Comments Report and in a separate SPSS data file.

These open-ended responses appear exactly as respondents entered them and may not be suitable for distribution without prior review.

6. Considering your experience taking partly or entirely online courses during the current school year, to what extent do you agree or disagree with the following statements?

reliability, etc.) where you live has been sufficient to participate in the course. 2 Disagree 330 56 2,801 58 3.1 3.1 01 8 Strongly agree 169 30 1,335 29 Total 578 100 4,731 100 5 The hardware (computer, tablet, mobile phone, printer, etc.) and software where you live have been sufficient to participate in the course. 2 Disagree 3 16 53 2,720 56 3.3 3.3 .02 8 Strongly agree 316 53 2,720 56 3.3 3.3 .02 8 Strongly agree 227 39 1,722 37 Total 583 100 4,735 100 c. Study spaces where you live have been sufficient for your needs. EOLO6c 1 Strongly disagree 17 3 124 3 100 c. Study spaces where you live have been sufficient for your needs. EOLO6c 2 Disagree 316 583 100 4,735 100 c. Study spaces where you live have been sufficient for your needs. EOLO6c 3 Agree 337 58 2,728 56 3.1 3.1 .02 4 Strongly agree 158 27 1,231 27 Total 583 100 4,743 100 d. Technology support has been EOLO6d 1 Strongly disagree 1 4 2 79 2 2 Disagree 7 1 13 540 12 2 Disagree 7 1 13 540 12 3 Agree 3 60 62 3,012 62 3 3.1 3.103 4 Strongly agree 1 S	 a. Internet service (availability, speed, 	EOL06a	1	Strongly disagree	14	3	107	2			
Strongly agree 169 30 1,335 29 1	***		2	Disagree	65	11	488	11			
b. The hardware (computer, tablet, mobile phone, printer, etc.) and software where you live have been sufficient to participate in the course. C. Study spaces where you live have been sufficient for your needs. A gree 1 Strongly disagree 2 Disagree 3 Agree 3 Agree 3 16 53 2,720 56 3 3,3 3,3 0.02 3 Agree 3 Strongly agree 227 39 1,722 37 Total 5 Strongly agree 227 39 1,722 37 Total 5 Strongly disagree 227 39 1,722 37 Total 6 Strongly agree 227 39 1,722 37 Total 6 Strongly agree 227 39 1,722 37 Total 6 Strongly disagree 71 12 660 14 Strongly agree 158 27 1,231 27 Total 6 Strongly agree 158 27 1,231 27 Total 7 Total 7 Total 7 Total 8 Strongly disagree 14 2 79 2 Disagree 14 2 79 2 Disagree 15 Strongly disagree 14 2 79 2 Disagree 17 1 13 540 12 3 Agree 3 Agre			3	Agree	330	56	2,801	58	3.1	3.1	.01
b. The hardware (computer, tablet, mobile phone, printer, etc.) and software where you live have been sufficient to participate in the course. 2 Disagree 3 Agree 4 Agree	course.		4	Strongly agree	169	30	1,335	29			
mobile phone, printer, etc.) and software where you live have been sufficient to participate in the course. 2 Disagree 3 Agree 3 Agree 3 16 53 2,720 56 3 Agree 227 39 1,722 37 Total 583 100 4,735 100 c. Study spaces where you live have been sufficient for your needs. 2 Disagree 7 1 12 660 14 3 Agree 3 Agree 3 37 58 2,728 56 3 10 3.1 3.1 .02 4 Strongly agree 7 1 12 583 100 4,735 100 6 Strongly agree 7 1 12 660 14 3 Agree 3 Agree 3 37 58 2,728 56 3 1 3.1 3.1 .02 4 Strongly agree 1 583 100 4,743 100 6 Technology support has been EOL06d 1 Strongly disagree 1 4 2 79 2 available. 2 Disagree 7 1 13 540 12 3 Agree 4 Ag				Total	578	100	4,731	100			
software where you live have been sufficient to participate in the course. 3 Agree 316 53 2,720 56 227 39 1,722 37 Total 583 100 4,735 100 c. Study spaces where you live have been sufficient for your needs. EOLO6c 1 Strongly disagree 71 12 660 14 3 Agree 337 58 2,728 56 4 3.1 3.1 .02 4 Strongly agree 158 27 1,231 27 Total 583 100 4,743 100 d. Technology support has been available. EOLO6d 1 Strongly disagree 14 2 79 2 available. 2 Disagree 71 13 540 12 3 3.1 3.103 4 Strongly agree 71 13 540 12 3 3.1 3.103		EOL06b	1	Strongly disagree	5	1	35	1			
sufficient to participate in the course. 4 Strongly agree 227 39 1,722 37 Total 583 100 4,735 100 c. Study spaces where you live have been sufficient for your needs. EOLO6c 1 Strongly disagree 71 12 660 14 3 Agree 337 58 2,728 56 4 Strongly agree 158 27 1,231 27 Total 583 100 4,743 100 d. Technology support has been available. EOLO6d 1 Strongly disagree 14 2 79 2 Disagree 71 13 540 12 3 Agree 360 62 3,012 62 4 Strongly agree 136 23 1,106 24			2	Disagree	35	7	258	6			
Course. 4 Strongly agree Total 583 100 4,735 100 c. Study spaces where you live have been sufficient for your needs. 2 Disagree 71 12 660 14 3 Agree 337 58 2,728 56 4 Strongly agree 158 27 1,231 27 Total 583 100 4,743 100 d. Technology support has been available. EOLO6d 1 Strongly disagree 158 27 1,231 27 Total 583 100 4,743 100 d. Technology support has been available. 2 Disagree 360 62 3,012 62 3.1 3.103	•		3	Agree	316	53	2,720	56	3.3	3.3	.02
C. Study spaces where you live have been sufficient for your needs. 2 Disagree 17 3 124 3 3 3 3 3 3 3 3 3			4	Strongly agree	227	39	1,722	37			
been sufficient for your needs. 2 Disagree 337 58 2,728 56 4 Strongly agree 158 27 1,231 27 Total 583 100 4,743 100 d. Technology support has been available. 2 Disagree 337 58 2,728 56 4 Strongly agree 158 27 1,231 27 Total 583 100 4,743 100 2 Disagree 14 2 79 2 2 Disagree 71 13 540 12 3 Agree 360 62 3,012 62 4 Strongly agree 136 23 1,106 24				Total	583	100	4,735	100			
A Agree 337 58 2,728 56 4 Strongly agree 158 27 1,231 27 Total 583 100 4,743 100 d. Technology support has been available. EOL06d 1 Strongly disagree 71 13 540 12 3 Agree 360 62 3,012 62 3.1 3.103 4 Strongly agree 136 23 1,106 24		EOL06c	1	Strongly disagree	17	3	124	3			
d. Technology support has been available. EOL06d 1 Strongly disagree 158 27 1,231 27 2 Disagree 14 2 79 2 3 Agree 360 62 3,012 62 4 Strongly agree 136 23 1,106 24	been sufficient for your needs.		2	Disagree	71	12	660	14			
d. Technology support has been available. EOL06d 1 Strongly disagree 14 2 79 2 2 Disagree 71 13 540 12 3 Agree 360 62 3,012 62 4 Strongly agree 136 23 1,106 24			3	Agree	337	58	2,728	56	3.1	3.1	.02
d. Technology support has been available. EOL06d 1 Strongly disagree 2 Disagree 71 13 540 12 3 Agree 360 62 3,012 62 4 Strongly agree 136 23 1,106 24			4	Strongly agree	158	27	1,231	27			
available. 2 Disagree 71 13 540 12 3 Agree 360 62 3,012 62 3.1 3.103 4 Strongly agree 136 23 1,106 24				Total	583	100	4,743	100			
3 Agree 360 62 3,012 62 3.1 3.103 4 Strongly agree 136 23 1,106 24		EOL06d	1	Strongly disagree	14	2	79	2			
4 Strongly agree 136 23 1,106 24	available.		2	Disagree	71	13	540	12			
		3	3	Agree	360	62	3,012	62	3.1	3.1	03
Total 581 100 4,737 100			Strongly agree	136	23	1,106	24				
				Total	581	100	4,737	100			



Frequencies and Statistical Comparisons The University of Toledo

				Frequen	cy D	istributio	ns ^a	Statistical C	Comparisons	s ^b
				UToledo)	NSSE Pub	lic	UToledo	NSSE Public	
Item wording or description	Variable name	Values ^c	Response options	Count	%	Count	%	Mean	Effect Mean size	
e. The online course platform has	EOL06e	1	Strongly disagree	14	3	72	2			
been user-friendly (available when		2	Disagree	50	9	406	9			
needed, easy to access and navigate, etc.).		3	Agree	365	63	3,038	63	3.1	3.104	4
navigate, etc.).		4	Strongly agree	152	25	1,218	26			
			Total	581	100	4,734	100			
7. Which of the following best des	cribes how yo	ur entirel	y or partly online courses	have typicall	y bee	n delivered?				
	EOL07	_	Synchronous (live class meetings at scheduled times)	202	37	1,314	31			
		_	Asynchronous (participation not at scheduled times)	48	9	521	11			
		_	A mixture of synchronous and asynchronous	332	55	2,901	58			
			Total	582	100	4,736	100			
8. How would you evaluate your o	nline learning	experien	ce during the current sch	ool year?						_
	EOL08	1	Poor	62	12	302	6			
		2	Fair	179	30	1,408	29			
		3	Good	278	46	2,221	46	2.6	2.8 ***24	4
		4	Excellent	67	11	813	18		∇	
			Total	586	100	4,744	100		·	



Frequencies and Statistical Comparisons The University of Toledo

				Frequen	cy Di	stributio	ns ^a	Statistical (Compari	sons
				UToledo		NSSE Pub	lic	UToledo	NSSE P	ublic
Item wording or description	Variable name	Values ^c	Response options	Count	%	Count	%	Mean	Mean	Effect size ^d
1. During the current school year,	to what exter	nt have yo	ur entirely or partly o	nline courses pro	vided	the following	ıg?			
a. Clearly stated learning objectives	EOL01a	0	Not at all	4	1	30	1			
or goals		1	Very little	46	8	215	4			
		2	Some	150	26	1,091	20	2.8	3.1 ***	26
		3	Quite a bit	219	37	2,137	39		∇	
		4	Very much	163	28	2,045	37			
			Total	582	100	5,518	100			
b. Clear guidance about how to get	EOL01b	0	Not at all	9	1	41	1			
started in the course		1	Very little	59	10	300	5			
		2	Some	171	30	1,155	21	2.7	3.0 ***	33
		3	Quite a bit	212	36	2,151	39		▼	
		4	Very much	130	23	1,860	34		ı '	
			Total	581	100	5,507	100			
c. A clearly stated grading policy	EOL01c	0	Not at all	7	1	32	1			
		1	Very little	25	4	156	3			
		2	Some	101	18	749	13	3.0	3.3 ***	25
		3	Quite a bit	245	41	2,063	37	3.0	3.3 ·····	23
		4	Very much	203	35	2,521	46		٧	
		4	Total	581	100	5,521	100			
d. Course information and activities	EOL01d	0	Not at all	12	2	47	1			
that are easy to locate	EOLOIG				8					
time are easy to iscure		1	Very little	42		238	5	2.0		
		2	Some	152	27	1,197	22	2.8	3.0 ***	29
		3	Quite a bit	236	39	2,063	37		∇	
		4	Very much	140	24	1,966	36			
			Total	582	100	5,511	100			
e. Sufficient instructions for using	EOL01e	0	Not at all	18	3	63	1			
technology		1	Very little	52	9	372	7			
		2	Some	161	28	1,209	22	2.7	2.9 ***	25
		3	Quite a bit	211	36	2,025	36		∇	
		4	Very much	138	24	1,848	34			
			Total	580	100	5,517	100			
f. Clarity about when instructors	EOL01f	0	Not at all	16	3	82	2			
would respond to you (answers to		1	Very little	64	11	397	7			
your questions, feedback about coursework, etc.)		2	Some	160	28	1,218	22	2.6	2.9 ***	29
course work, etc.)		3	Quite a bit	212	36	1,982	36		∇	
		4	Very much	126	22	1,839	33			
			Total	578	100	5,518	100			
g. Clear expectations for your	EOL01g	0	Not at all	23	4	115	2			
interactions with other students		1	Very little	65	12	459	8			
		2	Some	161	27	1,246	22	2.6	2.9 ***	26
		3	Quite a bit	199	34	1,878	34		∇	
		4	Very much	130	22	1,806	32		Ť	
			Total	578	100	5,504	100			



Frequencies and Statistical Comparisons The University of Toledo

				Frequen	cy Di	istributio	ns ^a	Statistical C	Comparisons
				UToledo	1	NSSE Pub	lic	UToledo	NSSE Public
Item wording or description	Variable name	Values ^c	Response options	Count	%	Count	%	Mean	Effect Mean size ^d
h. Assessments (quizzes, projects,	EOL01h	0	Not at all	10	2	55	1		- Medii
assignments, exams, etc.) that help		1	Very little	45	8	219	4		
you achieve course learning		2	Some	126	22	986	18	2.9	3.1 ***23
objectives or goals		3	Quite a bit	207	35	2,099	38		∇
		4	Very much	192	33	2,149	39		
			Total	580	100	5,508	100		
i. Instructional materials (readings,	EOL01i	0	Not at all	8	1	51	1		
videos, etc.) that help you achieve		1	Very little	43	8	237	4		
course learning objectives or goals		2	Some	138	26	990	18	2.8	3.1 ***29
		3	Quite a bit	229	38	2,103	38		∇
		4	Very much	160	27	2,123	39		·
			Total	578	100	5,504	100		
2. During the current school year, a	bout how m	any of you	ır entirely or partly onl	line courses incl	uded 1	the following	2?		
a. Live sessions including the	EOL02a	1	None	41	8	500	9		
instructor and students		2	Some	160	27	1,675	28		
		3	Most	241	41	2,006	37	2.8	2.801
		4	All	140	24	1,327	26	2.0	2.001
		·	Total	582	100	5,508	100		
b. Pre-recorded presentations by the	EOL02b	1	None	79	14	822	16		
instructor		2	Some	296	50	2,674	48		
		3	Most	152	26	1,363	24	2.3	2.3 .01
		4	All	55	10	640	11	2.5	2.3 .01
			Total	582	100	5,499	100		
c. Presentations or talks by experts in	EOL02c	1	None	173	31	1,663	31		
the field (live or recorded)		2	Some	282	48	2,514	45		
		3	Most	90	15	870	16	2.0	2.007
		4	All	34	6	457	9	_,,	2.0
			Total	579	100	5,504	100		
d. Group projects or presentations	EOL02d	1	None	86	17	860	16		
		2	Some	316	54	2,597	46		
		3	Most	135	22	1,390	26	2.2	2.3 ***16
		4	All	43	7	656	12		∇
			Total	580	100	5,503	100		·
e. Interaction among students in small	EOL02e	1	None	131	25	920	17		
groups or breakout rooms		2	Some	290	50	2,398	43		
		3	Most	122	20	1,469	26	2.1	2.4 ***31
		4	All	38	6	710	13	2.1	Z:451
			Total	581	100	5,497	100		Ť
f. Frequent quizzes or short	EOL02f	1	None	28	6	253	5		
assignments to check your		2	Some	201	35	1,701	31		
understanding		3	Most	234	40	2,235	40	2.7	2.8 **13
		4	All	115	19	1,311	24	24.1	✓
		•	Total	578	100	5,500	100		*
				370	100	3,300	100		



Frequencies and Statistical Comparisons The University of Toledo

				Frequen	cy Di	stributio	ns ^a	Statistical (Compari	sons ^b
				UToledo)	NSSE Pub	lic	UToledo	NSSE P	ublic
Item wording or description	Variable name	Values ^c	Response options	Count	%	Count	%	Mean	Mean	Effect size ^d
g. Coursework that challenges you to	EOL02g	1	None	14	3	92	2		Wicum	J/LC
enhance your knowledge, skills,		2	Some	155	27	1,149	21			
and abilities		3	Most	260	43	2,342	42	2.9	3.1 ***	21
		4	All	151	27	1,906	35		∇	
			Total	580	100	5,489	100		,	
h. Opportunities for personalized	EOL02h	1	None	47	9	262	5			
feedback, support, and guidance		2	Some	223	39	1,760	32			
from the instructor		3	Most	208	35	1,977	36	2.6	2.8 ***	28
		4	All	102	17	1,497	27		∇	
			Total	580	100	5,496	100		,	
i. Opportunities to apply your	EOL02i	1	None	52	10	405	8			
learning to a real-world problem or		2	Some	237	41	1,918	34			
issue		3	Most	214	36	1,887	34	2.5	2.7 ***	22
		4	All	78	13	1,283	23		∇	
			Total	581	100	5,493	100		·	
3. During the current school year,	how comfort	able have	you been doing the follow	wing in your e	ntirely	or partly or	nline co	urses?		
a. Participating in online discussion	EOL03a	1	Not at all comfortable	17	3	158	3			
boards, forums, or other discussion		2		32	6	217	4			
tools		3		36	7	442	8			
		4		112	20	894	17	4.7	4.8	08
		5		156	26	1,266	22			
		6	Very comfortable	217	37	2,412	44			
		_	Not appliable	9	2	104	2			
			Total	579	100	5,493	100			
b. Participating in live course	EOL03b	1	Not at all comfortable	34	6	254	5			
discussions		2		45	8	370	7			
		3		86	15	618	11			
		4		137	23	1,116	20	4.2	4.5 ***	17
		5		127	22	1,160	21		∇	
		6	Very comfortable	121	22	1,600	30			
		_	Not appliable	25	5	372	6			
			Total	575	100	5,490	100			
c. Taking proctored online exams	EOL03c	1	Not at all comfortable	86	15	602	12			
		2		48	7	445	8			
		3		54	9	533	10			
		4		117	19	858	15	3.9	4.1 *	10
		5		100	17	952	17		∇	
		6	Very comfortable	112	21	1,368	25		i i	
		_	Not appliable	59	12	735	13			
			Total	576	100	5,493	100			



Frequencies and Statistical Comparisons The University of Toledo

				Frequen	cy Di	stributio	ns ^a	Statistical (Comparisons
				UToledo)	NSSE Pub	lic	UToledo	NSSE Public
Item wording or description	Variable name	Values ^c	Response options	Count	%	Count	%	Mean	Effec Mean size
d. Interacting with other students in	EOL03d	1	Not at all comfortable	25	5	142	3	mean	Weuli 312c
the course		2		44	8	344	6		
		3		81	13	652	12		
		4		131	23	1,105	20	4.4	4.6 ***18
		5		156	26	1,323	24	4.4	7.010
		6	Very comfortable	137	25	1,841	34		•
		_	Not appliable	3	1	82	2		
			Total	577	100	5,489	100		
e. Interacting with your instructor to	EOL03e	1	Not at all comfortable	31	5	122	2		
discuss course topics, ideas, or		2		39	6	292	5		
concepts		3		71	12	559	10		
		4		142	25	1,106	20	4.4	4.7 ***26
		5		154	25	1,378	24		▽
		6	Very comfortable	134	25	1,976	37		Ť
		_	Not appliable	8	2	55	1		
			Total	579	100	5,488	100		
f. Using learning support services	EOL03f	1	Not at all comfortable	59	10	429	8		
(tutoring services, writing center,		2		77	12	573	11		
etc.)		3		78	12	674	12		
		4		110	19	827	15	3.7	3.9 **15
		5		73	13	745	13		∇
		6	Very comfortable	78	14	1,063	20		
		_	Not appliable	102	19	1,172	22		
			Total	577	100	5,483	100		
g. Seeking feedback and guidance	EOL03g	1	Not at all comfortable	37	7	191	4		
from your instructor		2		43	7	339	6		
		3		83	14	584	11		
		4		126	22	1,096	20	4.2	4.6 ***24
		5		146	25	1,285	23		∇
		6	Very comfortable	130	23	1,888	34		
		_	Not appliable	13	3	109	2		
			Total	578	100	5,492	100		
. To improve the <i>online</i> course-ta	aking experier	nce, how i	mportant is it that your	institution do	the fo	lowing?			
a. Increase interactions between	EOL04a	1	Not at all important	59	11	707	13		
students		2	Somewhat important	184	31	1,757	32		
		3	Important	208	35	1,828	33	2.7	2.6 .05
		4	Very important	126	22	1,187	22		
			Total	577	100	5,479	100		
b. Increase interactions with	EOL04b	1	Not at all important	17	3	210	4		
instructors		2	Somewhat important	120	22	1,110	21		
		3	Important	245	42	2,259	41	3.1	3.101
		4	Very important	195	33	1,895	35	J. 12	.01
			Total	577	100	5,474	100		



Frequencies and Statistical Comparisons The University of Toledo

Seniors

				Frequen	cy D	istributio	ns ^a	Statistical C	ompari	i sons b
				UToledo)	NSSE Pub	lic	UToledo	NSSE P	ublic
Item wording or description	Variable name	Values ^c	Response options	Count	%	Count	%	Mean	Mean	Effect size ^d
c. Improve responsiveness of	EOL04c	1	Not at all important	11	2	193	4			
instructors		2	Somewhat important	94	17	909	17			
		3	Important	205	34	2,081	37	3.2	3.2 *	.09
		4	Very important	266	46	2,298	42		Δ	
			Total	576	100	5,481	100			
d. Improve online tools for student	EOL04d	1	Not at all important	16	3	288	6			
collaboration		2	Somewhat important	106	19	1,137	21			
		3	Important	226	37	2,086	37	3.2	3.0 **	.13
		4	Very important	227	41	1,961	36		Δ	
			Total	575	100	5,472	100			
e. Provide more online learning	EOL04e	1	Not at all important	37	7	403	8			
support services (tutoring services,		2	Somewhat important	174	31	1,540	28			
writing center, etc.)		3	Important	205	34	1,981	36	2.8	2.8	03
		4	Very important	162	28	1,547	29			
			Total	578	100	5,471	100			

5. Please describe one way online learning at your institution could be improved and one thing that should not be changed.

This final question asked students to respond in an open text box. Comments were recorded for 400 first-year students and 416 seniors. Responses are provided in your NSSE21 Student Comments Report and in a separate SPSS data file.

These open-ended responses appear exactly as respondents entered them and may not be suitable for distribution without prior review.

6. Considering your experience taking *partly or entirely online* courses during the current school year, to what extent do you agree or disagree with the following statements?

 Internet service (availability, speed, 	EOL06a	1	Strongly disagree	18	3	111	2		
reliability, etc.) where you live has been sufficient to participate in the		2	Disagree	83	13	568	10		
		3	Agree	324	56	2,878	52	3.1	3.2 ***17
course.		4	Strongly agree	147	28	1,865	36		∇
			Total	572	100	5,422	100		
b. The hardware (computer, tablet,	EOL06b		Strongly disagree	10	2	57	1		
mobile phone, printer, etc.) and		2	Disagree	59	9	375	7		
software where you live have been sufficient to participate in the		3	Agree	327	56	2,870	52	3.2	3.3 ***15
course.		4	Strongly agree	181	34	2,135	40		∇
			Total	577	100	5,437	100		
c. Study spaces where you live have	:	1	Strongly disagree	40	7	263	5		
been sufficient for your needs.		2	Disagree	132	22	993	18		
		3	Agree	298	51	2,692	49	2.9	3.0 ***19
		4	Strongly agree	105	21	1,490	28		∇
			Total	575	100	5,438	100		
d. Technology support has been	EOL06d	1	Strongly disagree	20	4	132	3		
available.		2	Disagree	112	18	727	13		
		3	Agree	351	60	3,214	58	2.9	3.1 ***20
		4	Strongly agree	91	18	1,357	26		∇
			Total	574	100	5,430	100		



Frequencies and Statistical Comparisons The University of Toledo

3 0111013										
				Frequency Distributions ^a			Statistical Comparisons ^b			
				UToledo NSSE Public		UToledo	NSSE Pu	ıblic		
Item wording or description	Variable name	Values ^c	Response options	Count	%	Count	%	Mean	Mean	Effect size ^d
e. The online course platform has	EOL06e	1	Strongly disagree	16	3	96	2			
been user-friendly (available when		2	Disagree	65	12	408	8			
needed, easy to access and navigate, etc.).		3	Agree	376	63	3,323	60	3.0	3.2 ***	23
navigate, etc.).		4	Strongly agree	115	22	1,609	30		∇	
			Total	572	100	5,436	100		·	
7. Which of the following best des	-	ur entirel		have typicall	y bee		20			
	EOL07	_	Synchronous (live class meetings at scheduled times)			1,486	30			
		_	Asynchronous (participation not at scheduled times)	84	15	1,053	18			
		_	A mixture of synchronous and asynchronous	327	55	2,889	52			
			Total	579	100	5,428	100			
8. How would you evaluate your o	nline learning	gexperien	ce during the current sch	ool year?						
	EOL08	1	Poor	66	12	383	8			
		2	Fair	206	35	1,356	25			
		3	Good	229	39	2,390	43	2.6	2.8 ***	31
		4	Excellent	79	15	1,317	24		2.0	
			Total	580	100	5,446	100			



Detailed Statistics^e The University of Toledo

							Effect				
	N	Mean		Standard error ^f		devia	ation ^g	DF ^h	Sig.i	size ^d	
Variable									arisons with:		
name	UToledo	UToledo	NSSE Public	UToledo	NSSE Public	UToledo	NSSE Public	NSSE Public			
EOL01a	577	2.83	2.89	.039	.012	0.94	0.90	6,132	.127	07	
EOL01b	577	2.71	2.80	.039	.013	0.95	0.95	6,100	.026	10	
EOL01c	579	3.03	3.11	.036	.012	0.87	0.88	708	.028	10	
EOL01d	579	2.76	2.85	.039	.013	0.95	0.94	6,118	.022	10	
EOL01e	579	2.69	2.78	.042	.013	1.00	0.97	6,111	.039	09	
EOL01f	578	2.70	2.80	.041	.013	0.98	0.97	6,112	.013	11	
EOL01g	578	2.55	2.63	.045	.015	1.08	1.10	6,101	.104	07	
EOL01h	579	2.97	3.01	.039	.012	0.95	0.91	6,114	.298	05	
EOL01i	577	2.93	3.00	.039	.012	0.93	0.89	689	.065	08	
EOL02a	578	2.92	2.86	.033	.011	0.78	0.82	716	.094	.07	
EOL02b	578	2.26	2.28	.033	.011	0.79	0.82	6,106	.551	03	
EOL02c	572	1.97	2.05	.036	.012	0.86	0.86	6,095	.044	09	
EOL02d	579	1.98	2.05	.031	.011	0.74	0.79	721	.040	09	
EOL02e	577	2.16	2.40	.032	.011	0.76	0.82	723	.000	30	
EOL02f	578	2.92	2.88	.031	.010	0.75	0.77	712	.242	.05	
EOL02g	578	3.02	3.01	.031	.010	0.75	0.74	6,100	.712	.02	
EOL02h	579	2.70	2.75	.035	.011	0.83	0.81	6,098	.141	06	
EOL02i	573	2.48	2.51	.037	.011	0.88	0.83	682	.460	03	
EOL03a	570	4.60	4.49	.057	.018	1.36	1.35	6,043	.064	.08	
EOL03b	554	4.03	4.08	.060	.019	1.40	1.43	5,912	.416	04	
EOL03c	543	3.89	3.95	.069	.023	1.62	1.63	5,674	.397	04	
EOL03d	564	4.08	4.13	.057	.019	1.36	1.40	6,017	.444	03	
EOL03e	565	4.22	4.33	.056	.018	1.34	1.33	6,036	.055	08	
EOL03f	510	3.66	3.78	.066	.022	1.48	1.55	5,454	.084	08	
EOL03g	562	4.22	4.30	.058	.019	1.37	1.38	5,988	.212	06	
EOL04a	569	2.76	2.79	.038	.012	0.90	0.89	6,076	.472	03	
EOL04b	572	3.05	3.08	.033	.010	0.79	0.78	6,071	.495	03	
EOL04c	570	3.11	3.15	.035	.011	0.84	0.80	6,062	.197	06	
EOL04d	571	3.07	3.05	.035	.011	0.84	0.81	6,070	.725	.02	
EOL04e	568	2.78	2.89	.036	.012	0.86	0.85	6,056	.004	13	
EOL06a	561	3.14	3.14	.030	.009	0.70	0.69	6,000	.869	.01	
EOL06b	566	3.31	3.30	.026	.008	0.63	0.61	6,009	.728	.02	
EOL06c	566	3.09	3.08	.030	.010	0.71	0.71	6,017	.583	.02	
EOL06d	565	3.07	3.08	.028	.009	0.66	0.66	6,010	.533	03	
EOL06e	564	3.11	3.13	.028	.009	0.67	0.64	6,004	.400	04	
EOL08	570	2.57	2.77	.035	.011	0.85	0.82	687	.000	24	



Detailed Statistics^e The University of Toledo

							dard			Effect
	N	Mean		Standard error ^f		devia	tion ^g	DF ^h	Sig.i	size ^d
Variable								Comparisons with:		
name	UToledo	UToledo	NSSE Public	UToledo	NSSE Public	UToledo	NSSE Public	NS	SE Public	
EOL01a	574	2.85	3.08	.039	.011	0.94	0.88	673	.000	26
EOL01b	573	2.69	3.00	.041	.012	0.97	0.92	675	.000	33
EOL01c	573	3.05	3.26	.038	.011	0.90	0.83	6,429	.000	25
EOL01d	574	2.76	3.02	.041	.012	0.98	0.92	675	.000	29
EOL01e	572	2.70	2.94	.043	.013	1.02	0.97	675	.000	25
EOL01f	569	2.64	2.92	.043	.013	1.03	0.99	672	.000	29
EOL01g	569	2.59	2.86	.046	.014	1.09	1.04	672	.000	26
EOL01h	572	2.89	3.10	.042	.012	1.01	0.91	664	.000	23
EOL01i	571	2.82	3.09	.040	.012	0.96	0.91	673	.000	29
EOL02a	574	2.80	2.81	.037	.012	0.89	0.92	6,413	.877	01
EOL02b	574	2.32	2.31	.035	.011	0.83	0.87	6,408	.824	.01
EOL02c	571	1.95	2.02	.035	.012	0.83	0.90	706	.070	07
EOL02d	572	2.20	2.34	.033	.012	0.80	0.88	713	.000	16
EOL02e	572	2.08	2.35	.035	.012	0.83	0.91	714	.000	31
EOL02f	571	2.72	2.84	.035	.011	0.83	0.84	6,403	.003	13
EOL02g	572	2.94	3.11	.034	.010	0.81	0.79	6,395	.000	21
EOL02h	572	2.60	2.85	.037	.012	0.88	0.88	6,400	.000	28
EOL02i	573	2.53	2.73	.035	.012	0.85	0.91	707	.000	22
EOL03a	561	4.74	4.85	.057	.018	1.36	1.35	6,261	.060	08
EOL03b	538	4.20	4.45	.064	.020	1.47	1.47	5,995	.000	17
EOL03c	502	3.91	4.07	.078	.024	1.76	1.74	5,562	.039	10
EOL03d	566	4.35	4.60	.060	.018	1.42	1.37	6,295	.000	18
EOL03e	561	4.35	4.70	.060	.018	1.42	1.33	6,320	.000	26
EOL03f	459	3.68	3.94	.076	.025	1.63	1.68	5,020	.002	15
EOL03g	555	4.25	4.58	.063	.019	1.48	1.42	6,251	.000	24
EOL04a	569	2.68	2.64	.039	.013	0.94	0.97	6,375	.291	.05
EOL04b	570	3.05	3.06	.034	.011	0.82	0.85	6,371	.858	01
EOL04c	569	3.25	3.17	.034	.011	0.81	0.85	6,377	.038	.09
EOL04d	567	3.16	3.04	.035	.012	0.83	0.89	6,361	.003	.13
EOL04e	570	2.82	2.85	.039	.012	0.92	0.93	6,369	.486	03
EOL06a	565	3.09	3.21	.030	.009	0.72	0.71	674	.000	17
EOL06b	569	3.21	3.31	.028	.009	0.67	0.65	6,332	.001	15
EOL06c	567	2.85	3.01	.034	.011	0.82	0.81	680	.000	19
EOL06d	566	2.93	3.07	.030	.009	0.72	0.70	6,320	.000	20
EOL06e	564	3.03	3.18	.029	.009	0.68	0.65	667	.000	23
EOL08	572	2.57	2.84	.037	.012	0.88	0.88	689	.000	31



Endnotes The University of Toledo

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. Comparison group details are in the *Selected Comparison Groups* report, linked in the Data & Reports table on the Institution Interface.
- b. All statistics are weighted by institution-reported sex and enrollment status (and institution size for comparison groups). Unless otherwise noted, statistical comparisons are two-tailed independent *t*-tests. Items with categorical response sets are left blank.
- c. These are the values used to calculate means. For the majority of items, these values match the codes in the data file and codebook.
- d. Effect size for independent t- tests uses Cohen's d; z- tests use Cohen's h.
- e. Statistics are weighted by institution-reported sex and enrollment status (and institution size for comparison groups). Categorical items are not listed.
- f. The 95% confidence interval for the population mean is equal to the sample mean plus or minus 1.96 times the standard error of the mean.
- g. A measure of the amount individual scores deviate from the mean of all the scores in the distribution.
- h. Degrees of freedom used to compute the t-tests. Values differ from Ns due to weighting and whether equal variances were assumed.
- i. 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 students in the comparison group is due to chance.
- j. Statistical comparison uses z- test to compare the proportion who responded (depending on the item) "Done or in progress" or "Yes" with all who responded otherwise
- k. Mean represents the proportion who responded (depending on the item) "Done or in progress" or "Yes."

Key to symbols:

- Your students' average was significantly higher (p < .05) with an effect size at least .3 in magnitude.
- \triangle 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.