

---

# NSSE 2022 Topical Module Report

## Experiences with Online Learning

California State University, Fullerton

---

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.

Comparison group details are in the online Selected Comparison Groups report, linked in the Data & Reports table on the Institution Interface. A PDF copy is also saved in your report download folder.

This page intentionally left blank.

### First-Year Students

Item wording or description	Variable name	Values <sup>c</sup>	Response options	Frequency Distributions <sup>a</sup>				Statistical Comparisons <sup>b</sup>		
				Cal State Fullerton		Large Public Univ		Cal State Fullerton	Large Public Univ	Effect size <sup>d</sup>
				Count	%	Count	%	Mean	Mean	
<b>1. During the current school year, to what extent have your <i>entirely or partly online</i> courses provided the following?</b>										
a. Clearly stated learning objectives or goals	EOL01a	0	Not at all	3	1	10	1	<b>2.8</b>	3.1 ***	-0.34
		1	Very little	26	6	64	4			
		2	Some	117	27	308	18			
		3	Quite a bit	193	42	636	38			
		4	Very much	113	24	583	40			
			Total	452	100	1,601	100			
b. Clear guidance about how to get started in the course	EOL01b	0	Not at all	4	1	13	1	<b>2.8</b>	3.1 ***	-0.32
		1	Very little	28	7	71	4			
		2	Some	129	29	322	19			
		3	Quite a bit	171	39	622	37			
		4	Very much	116	25	563	38			
			Total	448	100	1,591	100			
c. A clearly stated grading policy	EOL01c	0	Not at all	2	0	10	1	<b>3.1</b>	3.3 ***	-0.25
		1	Very little	7	2	40	2			
		2	Some	82	19	213	13			
		3	Quite a bit	191	42	554	33			
		4	Very much	169	36	781	52			
			Total	451	100	1,598	100			
d. Course information and activities that are easy to locate	EOL01d	0	Not at all	3	1	15	1	<b>2.9</b>	3.1 ***	-0.22
		1	Very little	20	5	64	4			
		2	Some	108	24	323	19			
		3	Quite a bit	192	43	592	36			
		4	Very much	127	27	601	40			
			Total	450	100	1,595	100			
e. Sufficient instructions for using technology	EOL01e	0	Not at all	5	1	18	1	<b>2.9</b>	3.1 ***	-0.20
		1	Very little	22	5	80	4			
		2	Some	108	25	336	19			
		3	Quite a bit	196	44	611	37			
		4	Very much	119	25	554	38			
			Total	450	100	1,599	100			
f. Clarity about when instructors would respond to you (answers to your questions, feedback about coursework, etc.)	EOL01f	0	Not at all	4	1	20	1	<b>2.9</b>	3.0 **	-0.12
		1	Very little	18	4	96	6			
		2	Some	114	26	347	21			
		3	Quite a bit	185	41	567	34			
		4	Very much	129	28	565	39			
			Total	450	100	1,595	100			
g. Clear expectations for your interactions with other students	EOL01g	0	Not at all	8	2	33	2	<b>2.8</b>	3.0 **	-0.14
		1	Very little	31	7	135	8			
		2	Some	114	26	362	22			
		3	Quite a bit	174	39	525	31			
		4	Very much	122	26	540	38			
			Total	449	100	1,595	100			

\*p<.05, \*\*p<.01, \*\*\*p<.001 (2-tailed); Refer to the endnotes page for the key to triangle symbols.

### First-Year Students

Item wording or description	Variable name	Values <sup>c</sup>	Response options	Frequency Distributions <sup>a</sup>				Statistical Comparisons <sup>b</sup>		
				Cal State Fullerton		Large Public Univ		Cal State Fullerton	Large Public Univ	Effect size <sup>d</sup>
				Count	%	Count	%	Mean	Mean	
h. Assessments (quizzes, projects, assignments, exams, etc.) that help you achieve course learning objectives or goals	EOL01h	0	Not at all	3	1	7	0	<b>3.0</b>	3.2 ***	-0.30 ▼
		1	Very little	21	5	55	3			
		2	Some	96	22	267	16			
		3	Quite a bit	189	43	587	35			
		4	Very much	139	30	677	45			
		Total		448	100	1,593	100			
i. Instructional materials (readings, videos, etc.) that help you achieve course learning objectives or goals	EOL01i	0	Not at all	2	0	11	1	<b>3.0</b>	3.2 ***	-0.23 ▼
		1	Very little	20	4	49	3			
		2	Some	89	20	247	15			
		3	Quite a bit	189	43	634	38			
		4	Very much	148	32	653	44			
		Total		448	100	1,594	100			
<b>2. During the current school year, about how many of your <i>entirely or partly online</i> courses included the following?</b>										
a. Live sessions including the instructor and students	EOL02a	1	None	16	4	215	19	<b>2.9</b>	2.5 ***	0.33 ▲
		2	Some	132	29	416	28			
		3	Most	201	45	593	33			
		4	All	100	22	365	20			
		Total		449	100	1,589	100			
		b. Pre-recorded presentations by the instructor	EOL02b	1	None	43	9			
2	Some			238	54	787	45			
3	Most			121	27	378	26			
4	All			48	10	203	17			
Total				450	100	1,593	100			
c. Presentations or talks by experts in the field (live or recorded)	EOL02c			1	None	133	29	422	26	<b>2.1</b>
		2	Some	182	42	726	44			
		3	Most	100	22	286	19			
		4	All	33	7	157	11			
		Total		448	100	1,591	100			
		d. Group projects or presentations	EOL02d	1	None	82	19	378	27	
2	Some			231	51	841	51			
3	Most			107	23	260	16			
4	All			30	7	111	7			
Total				450	100	1,590	100			
e. Interaction among students in small groups or breakout rooms	EOL02e			1	None	33	7	231	18	<b>2.6</b>
		2	Some	176	39	707	45			
		3	Most	177	39	449	25			
		4	All	62	14	203	12			
		Total		448	100	1,590	100			

\*p<.05, \*\*p<.01, \*\*\*p<.001 (2-tailed); Refer to the endnotes page for the key to triangle symbols.

### First-Year Students

Item wording or description	Variable name	Values <sup>c</sup>	Response options	Frequency Distributions <sup>a</sup>				Statistical Comparisons <sup>b</sup>		
				Cal State Fullerton		Large Public Univ		Cal State Fullerton	Large Public Univ	Effect size <sup>d</sup>
				Count	%	Count	%	Mean	Mean	
f. Frequent quizzes or short assignments to check your understanding	EOL02f	1	None	10	2	32	2	<b>2.9</b>	3.0 ***	-.19 ▽
		2	Some	134	30	390	25			
		3	Most	211	47	703	43			
		4	All	95	21	464	30			
		Total		450	100	1,589	100			
g. Coursework that challenges you to enhance your knowledge, skills, and abilities	EOL02g	1	None	5	1	11	1	<b>3.0</b>	3.2 ***	-.28 ▽
		2	Some	109	25	308	19			
		3	Most	230	51	709	43			
		4	All	104	23	560	37			
		Total		448	100	1,588	100			
h. Opportunities for personalized feedback, support, and guidance from the instructor	EOL02h	1	None	25	6	52	3	<b>2.7</b>	2.9 ***	-.22 ▽
		2	Some	161	36	531	32			
		3	Most	186	42	601	37			
		4	All	76	17	405	27			
		Total		448	100	1,589	100			
i. Opportunities to apply your learning to a real-world problem or issue	EOL02i	1	None	31	7	107	7	<b>2.5</b>	2.7 **	-.14 ▽
		2	Some	202	45	658	41			
		3	Most	158	35	525	32			
		4	All	58	13	299	20			
		Total		449	100	1,589	100			
<b>3. During the current school year, how comfortable have you been doing the following in your <i>entirely or partly online</i> courses?</b>										
a. Participating in online discussion boards, forums, or other discussion tools	EOL03a	1	Not at all comfortable	5	1	41	3	<b>4.7</b>	4.7	-.03
		2		13	3	83	5			
		3		48	11	179	10			
		4		115	27	367	22			
		5		134	29	402	24			
		6	Very comfortable	130	28	502	36			
		—	Not applicable	2	0	12	1			
Total		447	100	1,586	100					
b. Participating in live course discussions	EOL03b	1	Not at all comfortable	21	5	92	6	<b>4.1</b>	4.1	-.01
		2		39	8	146	8			
		3		80	18	238	14			
		4		138	32	395	23			
		5		92	21	310	18			
		6	Very comfortable	71	16	268	18			
		—	Not applicable	6	1	136	12			
Total		447	100	1,585	100					
c. Taking proctored online exams	EOL03c	1	Not at all comfortable	42	9	172	10	<b>4.0</b>	4.2	-.10
		2		39	9	123	7			
		3		68	15	160	9			
		4		83	19	349	21			
		5		102	23	282	17			
		6	Very comfortable	94	20	384	28			
		—	Not applicable	19	4	116	7			
Total		447	100	1,586	100					

\*p<.05, \*\*p<.01, \*\*\*p<.001 (2-tailed); Refer to the endnotes page for the key to triangle symbols.

### First-Year Students

Item wording or description	Variable name	Values <sup>c</sup>	Response options	Frequency Distributions <sup>a</sup>				Statistical Comparisons <sup>b</sup>		
				Cal State Fullerton		Large Public Univ		Cal State Fullerton	Large Public Univ	Effect size <sup>d</sup>
				Count	%	Count	%	Mean	Mean	
d. Interacting with other students in the course	EOL03d	1	Not at all comfortable	13	3	60	4	<b>4.1</b>	4.3 ***	-0.18
		2		40	9	134	8			
		3		90	20	246	15			
		4		123	28	395	24			
		5		116	26	359	21			
		6	Very comfortable	63	14	371	27			
		—	Not applicable	3	1	21	2			
	Total	448	100	1,586	100					
e. Interacting with your instructor to discuss course topics, ideas, or concepts	EOL03e	1	Not at all comfortable	16	3	44	3	<b>4.1</b>	4.5 ***	-0.28
		2		36	8	119	7			
		3		80	18	215	13			
		4		135	30	384	23			
		5		111	25	400	24			
		6	Very comfortable	67	15	403	29			
		—	Not applicable	3	1	20	2			
	Total	448	100	1,585	100					
f. Using learning support services (tutoring services, writing center, etc.)	EOL03f	1	Not at all comfortable	31	7	114	7	<b>3.7</b>	4.0 **	-0.16
		2		56	13	163	10			
		3		84	19	248	15			
		4		112	25	318	20			
		5		76	17	280	16			
		6	Very comfortable	53	12	289	20			
		—	Not applicable	35	8	172	12			
	Total	447	100	1,584	100					
g. Seeking feedback and guidance from your instructor	EOL03g	1	Not at all comfortable	14	3	57	3	<b>4.1</b>	4.5 ***	-0.26
		2		50	11	119	7			
		3		78	18	210	12			
		4		116	26	378	23			
		5		102	23	371	22			
		6	Very comfortable	80	17	422	30			
		—	Not applicable	7	2	26	2			
	Total	447	100	1,583	100					
<b>4. To improve the online course-taking experience, how important is it that your institution do the following?</b>										
a. Increase interactions between students	EOL04a	1	Not at all important	34	8	167	13	<b>2.6</b>	2.6	.04
		2	Somewhat important	161	36	517	33			
		3	Important	180	40	575	35			
		4	Very important	71	16	321	19			
			Total	446	100	1,580	100			
b. Increase interactions with instructors	EOL04b	1	Not at all important	5	1	50	4	<b>3.0</b>	3.0	-0.05
		2	Somewhat important	114	25	312	20			
		3	Important	213	49	733	46			
		4	Very important	115	25	487	30			
			Total	447	100	1,582	100			

\*p<.05, \*\*p<.01, \*\*\*p<.001 (2-tailed); Refer to the endnotes page for the key to triangle symbols.

### First-Year Students

Item wording or description	Variable name	Values <sup>c</sup>	Response options	Frequency Distributions <sup>a</sup>				Statistical Comparisons <sup>b</sup>		
				Cal State Fullerton		Large Public Univ		Cal State Fullerton	Large Public Univ	Effect size <sup>d</sup>
				Count	%	Count	%	Mean	Mean	
c. Improve responsiveness of instructors	EOL04c	1	Not at all important	5	1	49	4	<b>3.2</b>	3.1	.05
		2	Somewhat important	73	17	268	18			
		3	Important	201	46	643	40			
		4	Very important	167	36	619	39			
		Total	446	100	1,579	100				
d. Improve online tools for student collaboration	EOL04d	1	Not at all important	12	3	65	5	<b>3.0</b>	3.1	-.02
		2	Somewhat important	92	21	300	19			
		3	Important	204	46	664	41			
		4	Very important	137	30	552	35			
		Total	445	100	1,581	100				
e. Provide more online learning support services (tutoring services, writing center, etc.)	EOL04e	1	Not at all important	15	3	82	6	<b>2.9</b>	2.9	.07
		2	Somewhat important	113	25	398	26			
		3	Important	203	46	646	40			
		4	Very important	116	26	450	27			
		Total	447	100	1,576	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 312 first-year students and 931 seniors. Responses are provided in your NSSE22 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?

a. Internet service (availability, speed, reliability, etc.) where you live has been sufficient to participate in the course.	EOL06a	1	Strongly disagree	3	1	21	1	<b>3.1</b>	3.3 ***	-.24
		2	Disagree	43	11	123	7			
		3	Agree	265	62	862	52			
		4	Strongly agree	114	26	531	39			
		Total	425	100	1,537	100				
b. The hardware (computer, tablet, mobile phone, printer, etc.) and software where you live have been sufficient to participate in the course.	EOL06b	1	Strongly disagree	1	0	9	1	<b>3.2</b>	3.4 ***	-.27
		2	Disagree	24	6	78	5			
		3	Agree	269	64	810	49			
		4	Strongly agree	131	30	644	45			
		Total	425	100	1,541	100				
c. Study spaces where you live have been sufficient for your needs.	EOL06c	1	Strongly disagree	15	4	56	3	<b>3.0</b>	3.1 ***	-.17
		2	Disagree	58	14	254	15			
		3	Agree	267	62	790	49			
		4	Strongly agree	87	20	444	33			
		Total	427	100	1,544	100				
d. Technology support has been available.	EOL06d	1	Strongly disagree	2	0	23	1	<b>3.2</b>	3.2 *	-.11
		2	Disagree	26	6	126	7			
		3	Agree	296	70	933	58			
		4	Strongly agree	103	23	459	33			
		Total	427	100	1,541	100				

### First-Year Students

Item wording or description	Variable name	Values <sup>c</sup>	Response options	Frequency Distributions <sup>a</sup>				Statistical Comparisons <sup>b</sup>		
				Cal State Fullerton		Large Public Univ		Cal State Fullerton	Large Public Univ	Effect size <sup>d</sup>
				Count	%	Count	%	Mean	Mean	
e. The online course platform has been user-friendly (available when needed, easy to access and navigate, etc.).	EOL06e	1	Strongly disagree	2	1	11	1	<b>3.2</b>	3.3 ***	-0.16
		2	Disagree	14	4	86	5			
		3	Agree	298	70	928	57			
		4	Strongly agree	113	25	516	37			
		Total	427	100	1,541	100				
<b>7. Which of the following best describes how your entirely or partly online courses have typically been delivered?</b>										
	EOL07	—	Synchronous (live class meetings at scheduled times)	92	22	406	22			
		—	Asynchronous (participation not at scheduled times)	50	11	349	31			
		—	A mixture of synchronous and asynchronous	287	67	787	46			
		Total	429	100	1,542	100				
		<b>8. How would you evaluate your online learning experience during the current school year?</b>								
	EOL08	1	Poor	9	2	68	4	<b>2.9</b>	3.0 ***	-0.21
		2	Fair	114	28	358	20			
		3	Good	220	50	695	44			
		4	Excellent	87	19	424	32			
		Total	430	100	1,545	100				

\*p<.05, \*\*p<.01, \*\*\*p<.001 (2-tailed); Refer to the endnotes page for the key to triangle symbols.



### Seniors

Item wording or description	Variable name	Values <sup>c</sup>	Response options	Frequency Distributions <sup>a</sup>				Statistical Comparisons <sup>b</sup>		
				Cal State Fullerton		Large Public Univ		Cal State Fullerton	Large Public Univ	Effect size <sup>d</sup>
				Count	%	Count	%	Mean	Mean	
<b>1. During the current school year, to what extent have your <i>entirely or partly online</i> courses provided the following?</b>										
a. Clearly stated learning objectives or goals	EOL01a	0	Not at all	10	1	24	1	<b>3.0</b>	3.3 ***	-0.33
		1	Very little	62	5	82	3			
		2	Some	277	20	395	13			
		3	Quite a bit	547	39	983	33			
		4	Very much	493	35	1,487	51			
		Total		1,389	100	2,971	100			
b. Clear guidance about how to get started in the course	EOL01b	0	Not at all	9	1	22	1	<b>3.0</b>	3.3 ***	-0.30
		1	Very little	64	5	92	3			
		2	Some	291	21	444	14			
		3	Quite a bit	556	40	1,004	34			
		4	Very much	463	33	1,404	48			
		Total		1,383	100	2,966	100			
c. A clearly stated grading policy	EOL01c	0	Not at all	7	1	16	1	<b>3.2</b>	3.4 ***	-0.31
		1	Very little	30	2	55	2			
		2	Some	228	17	311	10			
		3	Quite a bit	549	39	887	29			
		4	Very much	578	41	1,709	58			
		Total		1,392	100	2,978	100			
d. Course information and activities that are easy to locate	EOL01d	0	Not at all	11	1	20	1	<b>3.0</b>	3.3 ***	-0.30
		1	Very little	58	4	90	3			
		2	Some	294	22	436	14			
		3	Quite a bit	538	39	973	33			
		4	Very much	488	34	1,448	49			
		Total		1,389	100	2,967	100			
e. Sufficient instructions for using technology	EOL01e	0	Not at all	16	1	28	1	<b>3.0</b>	3.2 ***	-0.26
		1	Very little	66	5	125	4			
		2	Some	323	24	478	16			
		3	Quite a bit	515	37	959	32			
		4	Very much	470	33	1,380	47			
		Total		1,390	100	2,970	100			
f. Clarity about when instructors would respond to you (answers to your questions, feedback about coursework, etc.)	EOL01f	0	Not at all	16	1	31	1	<b>3.0</b>	3.2 ***	-0.22
		1	Very little	71	5	147	5			
		2	Some	310	23	505	17			
		3	Quite a bit	506	37	918	30			
		4	Very much	486	34	1,373	47			
		Total		1,389	100	2,974	100			
g. Clear expectations for your interactions with other students	EOL01g	0	Not at all	22	2	54	2	<b>2.9</b>	3.2 ***	-0.22
		1	Very little	81	6	139	5			
		2	Some	290	21	496	16			
		3	Quite a bit	530	38	914	30			
		4	Very much	463	33	1,361	47			
		Total		1,386	100	2,964	100			

\*p<.05, \*\*p<.01, \*\*\*p<.001 (2-tailed); Refer to the endnotes page for the key to triangle symbols.

### Seniors

Item wording or description	Variable name	Values <sup>c</sup>	Response options	Frequency Distributions <sup>a</sup>				Statistical Comparisons <sup>b</sup>		
				Cal State Fullerton		Large Public Univ		Cal State Fullerton	Large Public Univ	Effect size <sup>d</sup>
				Count	%	Count	%	Mean	Mean	
h. Assessments (quizzes, projects, assignments, exams, etc.) that help you achieve course learning objectives or goals	EOL01h	0	Not at all	13	1	26	1	<b>3.1</b>	3.3 ***	-0.24 ▽
		1	Very little	52	4	84	3			
		2	Some	247	18	380	12			
		3	Quite a bit	514	37	951	32			
		4	Very much	561	40	1,528	52			
	Total	1,387	100	2,969	100					
i. Instructional materials (readings, videos, etc.) that help you achieve course learning objectives or goals	EOL01i	0	Not at all	14	1	28	1	<b>3.1</b>	3.3 ***	-0.23 ▽
		1	Very little	52	4	95	3			
		2	Some	240	18	390	13			
		3	Quite a bit	531	39	941	31			
		4	Very much	547	39	1,511	52			
	Total	1,384	100	2,965	100					
<b>2. During the current school year, about how many of your <i>entirely or partly online</i> courses included the following?</b>										
a. Live sessions including the instructor and students	EOL02a	1	None	55	4	582	22	<b>2.8</b>	2.4 ***	.43 ▲
		2	Some	421	30	960	34			
		3	Most	633	46	853	27			
		4	All	273	20	564	18			
			Total	1,382	100	2,959	100			
b. Pre-recorded presentations by the instructor	EOL02b	1	None	119	9	279	8	<b>2.5</b>	2.7 ***	-0.26 ▽
		2	Some	620	45	1,140	35			
		3	Most	474	34	893	32			
		4	All	164	12	646	25			
			Total	1,377	100	2,958	100			
c. Presentations or talks by experts in the field (live or recorded)	EOL02c	1	None	276	20	661	22	<b>2.2</b>	2.3 **	-0.08 ▽
		2	Some	644	47	1,236	41			
		3	Most	327	24	659	23			
		4	All	131	10	405	15			
			Total	1,378	100	2,961	100			
d. Group projects or presentations	EOL02d	1	None	118	9	434	17	<b>2.6</b>	2.3 ***	.29 ▲
		2	Some	536	39	1,326	45			
		3	Most	498	36	792	25			
		4	All	227	17	407	13			
			Total	1,379	100	2,959	100			
e. Interaction among students in small groups or breakout rooms	EOL02e	1	None	85	6	521	19	<b>2.7</b>	2.4 ***	.37 ▲
		2	Some	492	36	1,206	41			
		3	Most	547	40	780	25			
		4	All	251	18	450	15			
			Total	1,375	100	2,957	100			
f. Frequent quizzes or short assignments to check your understanding	EOL02f	1	None	32	2	80	3	<b>2.9</b>	3.1 ***	-0.26 ▽
		2	Some	403	30	635	21			
		3	Most	605	44	1,207	40			
		4	All	330	23	1,027	36			
			Total	1,370	100	2,949	100			

### Seniors

Item wording or description	Variable name	Values <sup>c</sup>	Response options	Frequency Distributions <sup>a</sup>				Statistical Comparisons <sup>b</sup>		
				Cal State Fullerton		Large Public Univ		Cal State Fullerton	Large Public Univ	Effect size <sup>d</sup>
				Count	%	Count	%	Mean	Mean	
g. Coursework that challenges you to enhance your knowledge, skills, and abilities	EOL02g	1	None	12	1	46	2	<b>3.1</b>	3.3 ***	-0.20 ▽
		2	Some	259	19	459	15			
		3	Most	648	47	1,160	39			
		4	All	452	32	1,289	45			
		Total		1,371	100	2,954	100			
h. Opportunities for personalized feedback, support, and guidance from the instructor	EOL02h	1	None	47	3	133	5	<b>2.9</b>	3.0 ***	-0.11 ▽
		2	Some	417	31	824	27			
		3	Most	571	42	1,021	34			
		4	All	337	24	973	34			
		Total		1,372	100	2,951	100			
i. Opportunities to apply your learning to a real-world problem or issue	EOL02i	1	None	80	6	191	7	<b>2.8</b>	2.8 ***	-0.09 ▽
		2	Some	433	32	909	31			
		3	Most	590	43	1,009	34			
		4	All	267	19	839	29			
		Total		1,370	100	2,948	100			
<b>3. During the current school year, how comfortable have you been doing the following in your <i>entirely or partly online</i> courses?</b>										
a. Participating in online discussion boards, forums, or other discussion tools	EOL03a	1	Not at all comfortable	29	2	93	3	<b>5.0</b>	5.1 **	-0.09 ▽
		2		31	2	89	3			
		3		104	8	175	6			
		4		208	15	370	12			
		5		348	25	586	20			
		6	Very comfortable	627	45	1,572	55			
		—	Not applicable	21	2	44	2			
		Total		1,368	100	2,929	100			
b. Participating in live course discussions	EOL03b	1	Not at all comfortable	61	5	144	5	<b>4.4</b>	4.5 **	-0.09 ▽
		2		75	6	160	5			
		3		190	14	260	9			
		4		302	22	502	17			
		5		328	24	548	18			
		6	Very comfortable	375	28	920	31			
		—	Not applicable	36	3	395	16			
		Total		1,367	100	2,929	100			
c. Taking proctored online exams	EOL03c	1	Not at all comfortable	328	24	323	10	<b>3.4</b>	4.4 ***	-0.55 ▽
		2		130	9	193	6			
		3		165	12	226	7			
		4		208	15	464	15			
		5		175	13	503	18			
		6	Very comfortable	250	19	970	35			
		—	Not applicable	110	8	247	8			
		Total		1,366	100	2,926	100			

### Seniors

Item wording or description	Variable name	Values <sup>c</sup>	Response options	Frequency Distributions <sup>a</sup>				Statistical Comparisons <sup>b</sup>		
				Cal State Fullerton		Large Public Univ		Cal State Fullerton	Large Public Univ	Effect size <sup>d</sup>
				Count	%	Count	%	Mean	Mean	
d. Interacting with other students in the course	EOL03d	1	Not at all comfortable	35	3	77	3	<b>4.5</b>	4.9 ***	-0.24
		2		76	6	134	4			
		3		173	13	264	9			
		4		311	23	501	16			
		5		355	26	664	22			
		6	Very comfortable	406	30	1,246	44			
		—	Not applicable	11	1	41	2			
	Total	1,367	100	2,927	100					
e. Interacting with your instructor to discuss course topics, ideas, or concepts	EOL03e	1	Not at all comfortable	34	2	71	3	<b>4.5</b>	4.9 ***	-0.27
		2		73	5	119	4			
		3		177	13	227	8			
		4		307	22	538	17			
		5		364	26	633	21			
		6	Very comfortable	401	29	1,287	46			
		—	Not applicable	11	1	46	2			
	Total	1,367	100	2,921	100					
f. Using learning support services (tutoring services, writing center, etc.)	EOL03f	1	Not at all comfortable	114	8	164	6	<b>3.8</b>	4.3 ***	-0.30
		2		144	11	247	8			
		3		221	16	289	10			
		4		269	20	471	16			
		5		189	14	406	14			
		6	Very comfortable	239	18	794	28			
		—	Not applicable	187	14	556	19			
	Total	1,363	100	2,927	100					
g. Seeking feedback and guidance from your instructor	EOL03g	1	Not at all comfortable	50	4	97	3	<b>4.4</b>	4.8 ***	-0.26
		2		88	7	151	5			
		3		174	13	217	7			
		4		304	22	538	17			
		5		338	24	623	21			
		6	Very comfortable	387	28	1,247	44			
		—	Not applicable	25	2	54	2			
	Total	1,366	100	2,927	100					
<b>4. To improve the online course-taking experience, how important is it that your institution do the following?</b>										
a. Increase interactions between students	EOL04a	1	Not at all important	115	9	388	14	<b>2.8</b>	2.6 ***	.12
		2	Somewhat important	439	32	931	32			
		3	Important	471	34	906	30			
		4	Very important	339	25	697	23			
			Total	1,364	100	2,922	100			
b. Increase interactions with instructors	EOL04b	1	Not at all important	41	3	101	3	<b>3.1</b>	3.1	-0.02
		2	Somewhat important	286	21	585	21			
		3	Important	546	39	1,142	39			
		4	Very important	490	36	1,093	37			
			Total	1,363	100	2,921	100			

### Seniors

Item wording or description	Variable name	Values <sup>c</sup>	Response options	Frequency Distributions <sup>a</sup>				Statistical Comparisons <sup>b</sup>		
				Cal State Fullerton		Large Public Univ		Cal State Fullerton	Large Public Univ	Effect size <sup>d</sup>
				Count	%	Count	%	Mean	Mean	
c. Improve responsiveness of instructors	EOL04c	1	Not at all important	27	2	101	4	<b>3.3</b>	3.2 ***	.12
		2	Somewhat important	181	14	468	17			
		3	Important	503	37	1,079	36			
		4	Very important	650	47	1,270	43			
		Total		1,361	100	2,918	100			
d. Improve online tools for student collaboration	EOL04d	1	Not at all important	43	3	172	6	<b>3.1</b>	3.0 **	.09
		2	Somewhat important	256	19	577	20			
		3	Important	534	39	1,072	36			
		4	Very important	525	38	1,100	37			
		Total		1,358	100	2,921	100			
e. Provide more online learning support services (tutoring services, writing center, etc.)	EOL04e	1	Not at all important	46	4	221	8	<b>3.0</b>	2.9 ***	.16
		2	Somewhat important	310	23	726	26			
		3	Important	535	39	1,035	35			
		4	Very important	470	34	934	31			
		Total		1,361	100	2,916	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 312 first-year students and 931 seniors. Responses are provided in your NSSE22 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?

a. Internet service (availability, speed, reliability, etc.) where you live has been sufficient to participate in the course.	EOL06a	1	Strongly disagree	17	1	43	1	<b>3.2</b>	3.4 ***	-.28
		2	Disagree	119	9	169	5			
		3	Agree	744	56	1,296	44			
		4	Strongly agree	444	34	1,352	49			
		Total		1,324	100	2,860	100			
b. The hardware (computer, tablet, mobile phone, printer, etc.) and software where you live have been sufficient to participate in the course.	EOL06b	1	Strongly disagree	13	1	28	1	<b>3.3</b>	3.5 ***	-.27
		2	Disagree	97	7	131	4			
		3	Agree	728	54	1,258	42			
		4	Strongly agree	492	38	1,455	52			
		Total		1,330	100	2,872	100			
c. Study spaces where you live have been sufficient for your needs.	EOL06c	1	Strongly disagree	61	5	105	3	<b>3.0</b>	3.2 ***	-.30
		2	Disagree	254	19	382	13			
		3	Agree	674	50	1,266	44			
		4	Strongly agree	337	26	1,114	40			
		Total		1,326	100	2,867	100			
d. Technology support has been available.	EOL06d	1	Strongly disagree	21	2	51	2	<b>3.2</b>	3.3 ***	-.16
		2	Disagree	111	8	245	8			
		3	Agree	816	61	1,509	52			
		4	Strongly agree	377	29	1,069	39			
		Total		1,325	100	2,874	100			

### Seniors

Item wording or description	Variable name	Values <sup>c</sup>	Response options	Frequency Distributions <sup>a</sup>				Statistical Comparisons <sup>b</sup>		
				Cal State Fullerton		Large Public Univ		Cal State Fullerton	Large Public Univ	Effect size <sup>d</sup>
				Count	%	Count	%	Mean	Mean	
e. The online course platform has been user-friendly (available when needed, easy to access and navigate, etc.).	EOL06e	1	Strongly disagree	10	1	33	1	<b>3.3</b>	3.4 ***	-0.23
		2	Disagree	75	6	123	4			
		3	Agree	805	61	1,421	49			
		4	Strongly agree	430	33	1,285	46			
		Total		1,320	100	2,862	100			
<b>7. Which of the following best describes how your entirely or partly online courses have typically been delivered?</b>										
	EOL07	—	Synchronous (live class meetings at scheduled times)	256	20	549	16			
		—	Asynchronous (participation not at scheduled times)	213	16	1,037	41			
		—	A mixture of synchronous and asynchronous	862	64	1,284	43			
		Total		1,331	100	2,870	100			
		<b>8. How would you evaluate your online learning experience during the current school year?</b>								
	EOL08	1	Poor	38	3	124	4	<b>3.0</b>	3.2 ***	-0.22
		2	Fair	266	21	459	15			
		3	Good	651	48	1,110	37			
		4	Excellent	376	28	1,192	43			
		Total		1,331	100	2,885	100			

#### First-Year Students

Variable name	N	Mean		Standard error <sup>f</sup>		Standard deviation <sup>g</sup>		DF <sup>h</sup>	Sig. <sup>i</sup>	Effect size <sup>d</sup>
		Cal State Fullerton	Large Public Univ	Cal State Fullerton	Large Public Univ	Cal State Fullerton	Large Public Univ			
	Comparisons with: Large Public Univ									
EOL01a	445	2.82	3.13	.042	.014	0.89	0.87	4,193	.000	-.34
EOL01b	441	2.80	3.08	.044	.015	0.92	0.90	4,157	.000	-.32
EOL01c	444	3.12	3.33	.038	.014	0.81	0.83	559	.000	-.25
EOL01d	443	2.92	3.11	.041	.015	0.87	0.90	4,171	.000	-.22
EOL01e	443	2.87	3.06	.042	.015	0.88	0.93	4,183	.000	-.20
EOL01f	443	2.91	3.02	.042	.016	0.89	0.97	577	.008	-.12
EOL01g	442	2.81	2.95	.045	.017	0.96	1.03	4,170	.006	-.14
EOL01h	441	2.97	3.22	.042	.014	0.88	0.85	542	.000	-.30
EOL01i	440	3.01	3.21	.041	.014	0.86	0.85	545	.000	-.23
EOL02a	442	2.86	2.54	.038	.017	0.80	1.02	626	.000	.33
EOL02b	443	2.38	2.47	.038	.015	0.79	0.92	593	.038	-.09
EOL02c	442	2.08	2.15	.042	.015	0.89	0.93	4,155	.090	-.09
EOL02d	443	2.18	2.01	.039	.014	0.81	0.83	558	.000	.21
EOL02e	441	2.60	2.31	.039	.015	0.82	0.90	4,151	.000	.32
EOL02f	443	2.86	3.01	.036	.013	0.76	0.80	4,154	.000	-.19
EOL02g	441	2.95	3.16	.034	.012	0.72	0.76	562	.000	-.28
EOL02h	441	2.70	2.88	.039	.014	0.82	0.85	4,151	.000	-.22
EOL02i	442	2.53	2.65	.038	.014	0.80	0.88	575	.003	-.14
EOL03a	438	4.65	4.69	.055	.022	1.16	1.32	582	.532	-.03
EOL03b	435	4.06	4.07	.064	.026	1.33	1.48	586	.845	-.01
EOL03c	421	4.03	4.19	.077	.028	1.58	1.66	3,877	.053	-.10
EOL03d	438	4.08	4.34	.061	.024	1.28	1.42	575	.000	-.18
EOL03e	438	4.10	4.48	.061	.023	1.28	1.37	564	.000	-.28
EOL03f	406	3.75	3.99	.071	.028	1.43	1.57	534	.002	-.16
EOL03g	433	4.09	4.46	.065	.023	1.36	1.41	549	.000	-.26
EOL04a	439	2.65	2.61	.040	.015	0.84	0.93	576	.339	.04
EOL04b	440	2.98	3.02	.035	.013	0.74	0.81	4,134	.304	-.05
EOL04c	439	3.17	3.13	.035	.014	0.74	0.84	581	.242	.05
EOL04d	438	3.04	3.06	.037	.014	0.78	0.85	567	.650	-.02
EOL04e	440	2.94	2.88	.038	.014	0.79	0.88	575	.131	.07
EOL06a	420	3.14	3.30	.030	.011	0.62	0.65	536	.000	-.24
EOL06b	420	3.23	3.40	.027	.010	0.56	0.61	539	.000	-.27
EOL06c	422	2.98	3.11	.034	.013	0.71	0.77	545	.000	-.17
EOL06d	422	3.16	3.23	.026	.011	0.53	0.63	569	.015	-.11
EOL06e	422	3.21	3.30	.025	.010	0.52	0.60	561	.001	-.16
EOL08	425	2.87	3.04	.036	.014	0.74	0.83	4,022	.000	-.21

## Seniors

Variable name	N	Mean		Standard error <sup>f</sup>		Standard deviation <sup>g</sup>		DF <sup>h</sup>	Sig. <sup>i</sup>	Effect size <sup>d</sup>
		Cal State Fullerton	Large Public Univ	Cal State Fullerton	Large Public Univ	Cal State Fullerton	Large Public Univ			
		Comparisons with: Large Public Univ								
EOL01a	1,370	3.03	3.31	.024	.010	0.90	0.85	1,865	.000	-.33
EOL01b	1,364	2.99	3.25	.024	.010	0.89	0.87	1,888	.000	-.30
EOL01c	1,373	3.17	3.42	.022	.009	0.83	0.80	8,570	.000	-.31
EOL01d	1,370	3.02	3.27	.024	.010	0.90	0.86	1,882	.000	-.30
EOL01e	1,371	2.97	3.21	.025	.011	0.93	0.91	1,912	.000	-.26
EOL01f	1,370	2.98	3.18	.025	.011	0.94	0.95	1,929	.000	-.22
EOL01g	1,366	2.95	3.17	.026	.011	0.96	0.97	1,937	.000	-.22
EOL01h	1,368	3.11	3.32	.024	.010	0.90	0.86	8,544	.000	-.24
EOL01i	1,365	3.10	3.30	.024	.010	0.90	0.88	1,893	.000	-.23
EOL02a	1,363	2.82	2.40	.022	.012	0.79	1.02	2,307	.000	.43
EOL02b	1,358	2.50	2.73	.022	.011	0.82	0.93	2,081	.000	-.26
EOL02c	1,359	2.23	2.31	.024	.011	0.88	0.97	2,039	.002	-.08
EOL02d	1,359	2.61	2.35	.023	.011	0.86	0.91	8,503	.000	.29
EOL02e	1,356	2.70	2.36	.023	.011	0.84	0.96	2,086	.000	.37
EOL02f	1,351	2.89	3.10	.021	.010	0.78	0.82	1,947	.000	-.26
EOL02g	1,351	3.11	3.26	.020	.009	0.74	0.77	1,953	.000	-.20
EOL02h	1,353	2.87	2.96	.022	.011	0.82	0.90	2,019	.000	-.11
EOL02i	1,350	2.75	2.84	.023	.011	0.83	0.92	2,032	.001	-.09
EOL03a	1,326	4.98	5.10	.034	.016	1.23	1.30	1,932	.002	-.09
EOL03b	1,312	4.41	4.55	.039	.019	1.42	1.50	2,013	.002	-.09
EOL03c	1,241	3.43	4.39	.053	.021	1.87	1.71	1,662	.000	-.55
EOL03d	1,336	4.55	4.86	.036	.016	1.33	1.34	8,280	.000	-.24
EOL03e	1,335	4.55	4.90	.036	.016	1.32	1.31	1,885	.000	-.27
EOL03f	1,160	3.84	4.32	.046	.021	1.58	1.61	1,685	.000	-.30
EOL03g	1,320	4.44	4.81	.038	.017	1.40	1.40	8,239	.000	-.26
EOL04a	1,345	2.75	2.63	.025	.012	0.93	0.99	1,971	.000	.12
EOL04b	1,344	3.08	3.10	.023	.010	0.84	0.84	8,384	.470	-.02
EOL04c	1,342	3.29	3.19	.021	.010	0.78	0.84	1,981	.000	.12
EOL04d	1,339	3.12	3.04	.023	.011	0.83	0.91	1,986	.001	.09
EOL04e	1,342	3.04	2.89	.023	.011	0.85	0.94	2,019	.000	.16
EOL06a	1,306	3.23	3.41	.018	.008	0.66	0.66	1,834	.000	-.28
EOL06b	1,313	3.29	3.46	.018	.008	0.64	0.63	1,832	.000	-.27
EOL06c	1,309	2.97	3.21	.022	.010	0.80	0.79	1,826	.000	-.30
EOL06d	1,307	3.17	3.27	.018	.008	0.64	0.68	1,904	.000	-.16
EOL06e	1,302	3.25	3.39	.016	.008	0.59	0.62	1,889	.000	-.23
EOL08	1,314	3.02	3.20	.021	.010	0.78	0.85	1,949	.000	-.22



---

## 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 *N*s 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.
- △ **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. You may not see all of these symbols in your report.