
NSSE 2022 Topical Module Report

First-Year Experiences & Senior Transitions

California State University, Chico

This module includes a set of items only for first-year students and a set only for seniors, with questions adapted from the Beginning College Survey of Student Engagement and the Strategic National Arts Alumni Project, respectively. The first-year items focus on academic perseverance, help-seeking behaviors, and institutional commitment, while the senior items explore post-graduation plans, links between the academic major and future plans, and confidence with skills developed during college.

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.

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NSSE 2022 First-Year Experiences & Senior Transitions

Frequencies and Statistical Comparisons: First-Year Experiences

California State University, Chico

First-Year Students

Item wording or description	Variable name	Values ^c	Response options	Frequency Distributions ^a				Statistical Comparisons ^b		
				CSU, Chico		FY Exp / Sr Transiti		CSU, Chico	FY Exp / Sr Transiti	Effect size ^d
				Count	%	Count	%	Mean	Mean	
1. During the current school year, about how often have you done the following?										
a. Studied when there were other interesting things to do	FYSfy01a	1	Never	7	4	789	5	2.6	2.8 *	-0.18
		2	Sometimes	73	48	6,639	37			
		3	Often	43	30	6,608	37			
		4	Very often	25	17	3,975	22			
		Total		148	100	18,011	100			
b. Found additional information for course assignments when you didn't understand the material	FYSfy01b	1	Never	6	5	501	3	2.7	2.8 *	-0.22
		2	Sometimes	58	38	5,495	31			
		3	Often	60	42	8,188	45			
		4	Very often	22	15	3,734	21			
		Total		146	100	17,918	100			
c. Participated in course discussions, even when you didn't feel like it	FYSfy01c	1	Never	8	5	943	5	2.6	2.7 **	-0.24
		2	Sometimes	70	47	6,307	35			
		3	Often	50	35	7,053	39			
		4	Very often	19	13	3,641	21			
		Total		147	100	17,944	100			
d. Asked instructors for help when you struggled with course assignments	FYSfy01d	1	Never	11	7	1,680	10	2.5	2.5	-0.03
		2	Sometimes	74	50	7,728	43			
		3	Often	41	29	5,780	32			
		4	Very often	21	14	2,731	16			
		Total		147	100	17,919	100			
e. Finished something you have started when you encountered challenges	FYSfy01e	1	Never	2	2	166	1	3.0	3.1	-0.15
		2	Sometimes	37	26	3,658	21			
		3	Often	68	48	8,800	48			
		4	Very often	39	25	5,296	30			
		Total		146	100	17,920	100			
f. Stayed positive, even when you did poorly on a test or assignment	FYSfy01f	1	Never	7	4	828	4	2.8	2.8	-0.03
		2	Sometimes	50	34	6,023	32			
		3	Often	58	40	7,291	41			
		4	Very often	32	22	3,773	22			
		Total		147	100	17,915	100			
2. During the current school year, how difficult have the following been for you?										
a. Learning course material	FYSfy02a	1	Not at all difficult	4	3	796	5	3.5	3.5	.03
		2	2	19	12	2,475	14			
		3	3	44	31	5,462	31			
		4	4	64	43	6,176	34			
		5	5	12	8	2,217	12			
		6	Very difficult	4	3	809	4			
Total		147	100	17,935	100					
b. Managing your time	FYSfy02b	1	Not at all difficult	6	4	855	5	4.0	3.8	.15
		2	2	16	11	2,108	12			
		3	3	30	21	4,182	23			
		4	4	38	26	5,128	29			
		5	5	35	23	3,396	19			
		6	Very difficult	22	16	2,253	12			
Total		147	100	17,922	100					

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

NSSE 2022 First-Year Experiences & Senior Transitions

Frequencies and Statistical Comparisons: First-Year Experiences

California State University, Chico

First-Year Students

Item wording or description	Variable name	Values ^c	Response options	Frequency Distributions ^a				Statistical Comparisons ^b		
				CSU, Chico		FY Exp / Sr Transitn		CSU, Chico	FY Exp / Sr Transitn	
				Count	%	Count	%	Mean	Mean	Effect size ^d
c. Getting help with school work	FYSfy02c	1	Not at all difficult	17	11	2,435	14	3.1	3.0	.11
		2	2	30	20	4,240	24			
		3	3	47	32	5,225	29			
		4	4	31	21	3,720	20			
		5	5	18	13	1,524	8			
		6	Very difficult	4	3	767	4			
		Total		147	100	17,911	100			
d. Interacting with faculty	FYSfy02d	1	Not at all difficult	23	16	3,210	19	2.9	2.8	.05
		2	2	36	25	4,512	25			
		3	3	42	29	4,823	26			
		4	4	31	20	3,333	18			
		5	5	10	6	1,344	7			
		6	Very difficult	5	4	692	4			
		Total		147	100	17,914	100			
3. During the current school year, about how often have you sought help with coursework from the following sources?										
a. Faculty members	FYSfy03a_16	1	Never	29	19	2,962	17	2.1	2.2	-.09
		2	Sometimes	81	54	9,459	52			
		3	Often	29	21	4,192	23			
		4	Very often	8	6	1,265	7			
		Total		147	100	17,878	100			
b. Academic advisors	FYSfy03b_16	1	Never	60	41	7,114	41	1.8	1.9	-.08
		2	Sometimes	65	44	7,098	39			
		3	Often	17	12	2,767	15			
		4	Very often	5	4	894	5			
		Total		147	100	17,873	100			
c. Learning support services (tutoring, writing center, success coaching, etc.)	FYSfy03c_16	1	Never	73	49	7,781	44	1.7	1.8	-.13
		2	Sometimes	53	36	6,208	34			
		3	Often	15	11	2,781	15			
		4	Very often	5	4	1,096	6			
		Total		146	100	17,866	100			
d. Friends or other students	FYSfy03d_16	1	Never	16	11	1,591	10	2.6	2.7	-.09
		2	Sometimes	45	31	5,562	32			
		3	Often	64	43	6,556	36			
		4	Very often	22	15	4,171	22			
		Total		147	100	17,880	100			
e. Family members	FYSfy03e_16	1	Never	69	48	6,867	38	1.8	2.0 *	-.20 ▽
		2	Sometimes	43	29	6,057	34			
		3	Often	28	19	3,363	19			
		4	Very often	7	4	1,591	9			
		Total		147	100	17,878	100			
f. Other persons or offices	FYSfy03f_16	1	Never	94	63	10,660	59	1.5	1.6	-.09
		2	Sometimes	34	24	4,817	27			
		3	Often	18	12	1,766	10			
		4	Very often	1	1	637	4			
		Total		147	100	17,880	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 ^c	Response options	Frequency Distributions ^a				Statistical Comparisons ^b		
				CSU, Chico		FY Exp / Sr Transiti		CSU, Chico	FY Exp / Sr Transiti	
				Count	%	Count	%	Mean	Mean	Effect size ^d
4. During the current school year, did you take a course intended for first-year students as described below?^j										
<i>(Comparison data are limited to NSSE 2022.)</i>										
a. A course that introduces students to college and helps develop success skills (study skills, goal setting, time management, etc.)	FYSfycourse <i>(Means indicate the percentage who responded "Yes.")</i>	Yes		62	44	9,903	56	44%	56% **	-.26
		No		64	43	6,131	33			
		Unsure		20	13	1,786	10			
		Total		146	100	17,820	100			
b. A first-year seminar or other course focused on a specialized topic or academic subject that emphasizes discussion and analysis	FYSfyseminar <i>(Means indicate the percentage who responded "Yes.")</i>	Yes		35	24	11,267	61	24%	61% ****	-.78
		No		74	50	4,368	25			
		Unsure		38	26	2,182	13			
		Total		147	100	17,817	100			
5a. During the current school year, have you seriously considered leaving this institution?^j										
	FYSfy04a <i>(Means indicate the percentage who responded "Yes.")</i>	No		96	67	12,387	71	33%	29%	.08
		Yes		51	33	5,429	29			
		Total		147	100	17,816	100			

NSSE 2022 First-Year Experiences & Senior Transitions

Frequencies and Statistical Comparisons: First-Year Experiences California State University, Chico

First-Year Students

Item wording or description	Variable name	Values ^c	Response options	Frequency Distributions ^a				Statistical Comparisons ^b		
				CSU, Chico		FY Exp / Sr Transiti		CSU, Chico		FY Exp / Sr Transiti
				Count	%	Count	%	Mean	Mean	Effect size ^d
5b. [If answered "yes"] Why did you consider leaving? (Select all that apply.)										
	FYSfy04b_1_16	—	Academics are too difficult	6	12	979	18			
	FYSfy04b_2_16	—	Academics are too easy	6	11	257	5			
	FYSfy04b_3_16	—	Other academic issues (major not offered, course availability, advising, credit transfer, etc.)	3	5	1,043	19			
	FYSfy04b_4_16	—	Financial concerns (costs or financial aid)	15	27	2,109	39			
	FYSfy04b_5_16	—	To change your career options (transfer to another school or program, military service, etc.)	7	14	854	16			
	FYSfy04b_6_16	—	Difficulty managing demands of school and work	12	25	1,046	20			
	FYSfy04b_7_16	—	Too much emphasis on partying	7	13	256	5			
	FYSfy04b_8_16	—	Not enough opportunities to socialize and have fun	8	16	1,159	20			
	FYSfy04b_9_16	—	Relations with faculty and staff	4	9	664	13			
	FYSfy04b_10_16	—	Relations with other students	8	16	1,217	22			
	FYSfy04b_11_16	—	Campus climate, location, or culture	17	32	1,626	29			
	FYSfy04b_12_16	—	Unsafe or hostile environment	8	14	400	7			
	FYSfy04b_13_16	—	Personal reasons (family issues, physical or mental health, homesickness, stress, etc.)	31	62	2,424	45			
	FYSfy04b_14_16	—	A reason not listed above, please specify:	8	16	797	16			
6. How important is it to you that you graduate from this institution?										
	FYSfy05	1	Not important	7	4	785	4	4.9	5.0	-.09
		2	2	5	3	635	4			
		3	3	14	10	1,190	7			
		4	4	19	13	2,341	13			
		5	5	29	20	2,971	17			
		6	Very important	72	49	9,895	56			
			Total	146	100	17,817	100			

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

First-Year Students

Variable name	N	Mean		Standard error ^f		Standard deviation ^g		DF ^h	Sig. ⁱ	Effect size ^d
	CSU, Chico	CSU, Chico	FY Exp / Sr Transiti	CSU, Chico	FY Exp / Sr Transiti	CSU, Chico	FY Exp / Sr Transiti			
	Comparisons with: FY Exp / Sr Transiti									
FYSfy01a	144	2.61	2.76	.068	.010	0.82	0.85	7,784	.030	-.18
FYSfy01b	143	2.67	2.84	.066	.009	0.79	0.78	7,742	.010	-.22
FYSfy01c	144	2.55	2.75	.065	.010	0.78	0.84	7,751	.005	-.24
FYSfy01d	144	2.51	2.54	.069	.010	0.83	0.87	7,741	.697	-.03
FYSfy01e	142	2.96	3.07	.063	.008	0.75	0.73	7,743	.079	-.15
FYSfy01f	144	2.79	2.81	.069	.010	0.83	0.83	7,737	.759	-.03
FYSfy02a	144	3.50	3.46	.083	.013	1.00	1.15	150	.649	.03
FYSfy02b	144	4.01	3.80	.114	.015	1.36	1.35	7,741	.068	.15
FYSfy02c	144	3.12	2.97	.106	.015	1.27	1.31	7,740	.178	.11
FYSfy02d	144	2.87	2.81	.108	.015	1.29	1.34	7,740	.561	.05
FYSfy03a_16	144	2.13	2.20	.065	.009	0.78	0.81	7,725	.269	-.09
FYSfy03b_16	144	1.78	1.85	.066	.010	0.79	0.86	7,723	.332	-.08
FYSfy03c_16	143	1.71	1.83	.069	.010	0.83	0.90	7,717	.113	-.13
FYSfy03d_16	144	2.62	2.70	.073	.011	0.87	0.93	7,723	.291	-.09
FYSfy03e_16	144	1.80	1.99	.075	.011	0.90	0.97	7,725	.020	-.20
FYSfy03f_16	144	1.51	1.58	.062	.009	0.74	0.82	7,727	.282	-.09
FYSfycourse ^k	143	.436	.564	.0416	.0057	--	--	--	.002	-.26
FYSfyseminar ^k	144	.239	.614	.0357	.0056	--	--	--	.000	-.78
FYSfy04a ^k	144	.331	.293	.0394	.0052	--	--	--	.322	.08
FYSfy05	143	4.89	5.01	.119	.016	1.42	1.40	7,698	.292	-.09

Seniors

Item wording or description	Variable name	Values ^c	Response options	Frequency Distributions ^a				Statistical Comparisons ^b		
				CSU, Chico		FY Exp / Sr Transitn		CSU, Chico	FY Exp / Sr Transitn	
				Count	%	Count	%	Mean	Mean	Effect size ^d
1. Do you expect to graduate this spring or summer?										
	FYSsr01_16	No		145	29	6,126	32			
		Yes		373	71	15,507	68			
		Total		518	100	21,633	100			
1a. [Excludes those who answered "No," not expecting spring/summer graduation] After graduation, what best describes your immediate plans?										
	FYSsr01a	— Full-time employment		209	58	8,933	58			
		— Part-time employment		25	6	770	5			
		— Graduate or professional school		71	18	3,465	21			
		— Military service		1	0	149	1			
		— Service or volunteer activity (AmeriCorps, Peace Corps, Teach for America, etc.)		3	1	74	0			
		— Internship (paid or unpaid)		20	5	590	4			
		— Travel or gap year		17	4	670	4			
		— No plans at this time		20	5	598	4			
		— Other, please specify:		7	2	319	2			
		Total		373	100	15,568	100			
1b. [If immediate plans included full- or part-time employment] Do you already have a job for after graduation?^j										
	FYSsr01b	No		121	52	4,337	45	48%	55% *	.03
		(Means indicate the percentage who responded "Yes.")		59	27	2,885	29			
		Yes, I will start a new job		54	21	2,412	26			
		Yes, I will continue in my current job		234	100	9,634	100			
2. [Excludes those who answered "No," not expecting spring/summer graduation] To what extent have courses in your major(s) prepared you for your post-graduation plans?										
	FYSsr02	1 Very little		21	6	885	6	3.0	3.0	.00
		2 Some		75	19	3,261	21			
		3 Quite a bit		154	41	5,741	37			
		4 Very much		121	34	5,606	36			
		Total		371	100	15,493	100			
3. Do you intend to work eventually in a field related to your major(s)?^j										
	FYSsr03	Yes		454	89	18,570	86	89%	86%	.07
		(Means indicate the percentage who responded "Yes.")		20	4	909	4			
		No		40	8	2,074	10			
		Unsure		514	100	21,553	100			
4. Do you plan to be self-employed, an independent contractor, or a freelance worker someday?^j										
	FYSsr04	Yes		103	21	4,402	21	21%	21%	.91
		(Means indicate the percentage who responded "Yes.")		270	51	11,169	50			
		No		142	28	5,966	29			
		Unsure		515	100	21,537	100			

Seniors

Item wording or description	Variable name	Values ^c	Response options	Frequency Distributions ^a				Statistical Comparisons ^b			
				CSU, Chico		FY Exp / Sr Transitn		CSU, Chico		FY Exp / Sr Transitn	Effect size ^d
				Count	%	Count	%	Mean	Mean		
5. Do you plan to start your own business (nonprofit or for-profit) someday?^j											
	FYSsr05	Yes		114	24	4,988	23	24%	23%	.75	
		No		242	45	10,194	46				
		Unsure		157	31	6,362	30				
		Total		513	100	21,544	100				
6. How much confidence do you have in your ability to complete tasks requiring the following skills and abilities?											
a. Critical thinking and analysis of arguments and information	FYSsr06a	1	Very little	5	1	127	1	3.4	3.4	-.04	
		2	Some	51	9	1,853	9				
		3	Quite a bit	186	36	7,988	37				
		4	Very much	263	53	11,475	54				
			Total	505	100	21,443	100				
b. Creative thinking and problem solving	FYSsr06b	1	Very little	3	1	112	1	3.5	3.5	-.02	
		2	Some	41	8	1,636	8				
		3	Quite a bit	187	37	7,740	36				
		4	Very much	274	55	11,914	56				
			Total	505	100	21,402	100				
c. Research skills	FYSsr06c	1	Very little	13	3	369	2	3.2	3.3	-.08	
		2	Some	86	18	3,281	15				
		3	Quite a bit	203	38	8,405	39				
		4	Very much	203	42	9,359	44				
			Total	505	100	21,414	100				
d. Clear writing	FYSsr06d	1	Very little	7	1	220	1	3.3	3.3	.00	
		2	Some	60	12	2,555	12				
		3	Quite a bit	199	39	8,471	39				
		4	Very much	239	48	10,173	47				
			Total	505	100	21,419	100				
e. Persuasive speaking	FYSsr06e	1	Very little	19	4	660	3	3.0	3.1	-.07	
		2	Some	120	23	4,727	22				
		3	Quite a bit	200	39	8,185	38				
		4	Very much	165	33	7,848	37				
			Total	504	100	21,420	100				
f. Technological skills	FYSsr06f	1	Very little	17	3	675	3	3.1	3.1	-.06	
		2	Some	119	22	4,495	20				
		3	Quite a bit	210	40	8,550	39				
		4	Very much	159	34	7,700	37				
			Total	505	100	21,420	100				
g. Financial and business management skills	FYSsr06g	1	Very little	79	15	3,363	15	2.6	2.6	-.03	
		2	Some	183	35	7,268	33				
		3	Quite a bit	141	29	6,270	30				
		4	Very much	101	21	4,514	22				
			Total	504	100	21,415	100				
h. Entrepreneurial skills	FYSsr06h	1	Very little	123	23	4,621	21	2.3	2.4	-.08	
		2	Some	187	37	7,468	35				
		3	Quite a bit	115	24	5,325	25				
		4	Very much	80	17	3,990	19				
			Total	505	100	21,404	100				

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NSSE 2022 First-Year Experiences & Senior Transitions

Frequencies and Statistical Comparisons: Senior Transitions

California State University, Chico

Seniors

Item wording or description	Variable name	Values ^c	Response options	Frequency Distributions ^a				Statistical Comparisons ^b		
				CSU, Chico		FY Exp / Sr Transiti		CSU, Chico	FY Exp / Sr Transiti	
				Count	%	Count	%	Mean	Mean	Effect size ^d
i. Leadership skills	FYSsr06i	1	Very little	21	5	584	3	3.2	3.2	-.08
		2	Some	80	16	3,373	16			
		3	Quite a bit	194	38	7,598	35			
		4	Very much	210	42	9,854	46			
		Total		505	100	21,409	100			
j. Networking and relationship building	FYSsr06j	1	Very little	32	6	1,082	5	3.0	3.0	-.08
		2	Some	129	25	4,773	23			
		3	Quite a bit	176	35	7,805	36			
		4	Very much	167	34	7,748	36			
		Total		504	100	21,408	100			
7. To what extent has your coursework in your major(s) emphasized the following?										
a. Generating new ideas or brainstorming	FYSsr07a	1	Very little	21	5	599	3	3.1	3.1	-.02
		2	Some	95	18	3,751	18			
		3	Quite a bit	191	37	8,592	40			
		4	Very much	197	40	8,429	39			
		Total		504	100	21,371	100			
b. Taking risks in your coursework without fear of penalty	FYSsr07b	1	Very little	114	23	3,842	19	2.5	2.6 *	-.10
		2	Some	143	28	5,940	28			
		3	Quite a bit	130	26	6,199	29			
		4	Very much	116	23	5,384	25			
		Total		503	100	21,365	100			
c. Evaluating multiple approaches to a problem	FYSsr07c	1	Very little	34	7	777	4	3.0	3.1	-.06
		2	Some	88	17	4,088	19			
		3	Quite a bit	205	40	8,494	39			
		4	Very much	176	36	7,990	37			
		Total		503	100	21,349	100			
d. Inventing new methods to arrive at unconventional solutions	FYSsr07d	1	Very little	66	14	2,031	10	2.7	2.8	-.08
		2	Some	142	27	5,973	28			
		3	Quite a bit	169	33	7,204	33			
		4	Very much	125	26	6,076	28			
		Total		502	100	21,284	100			
8. Have you been creating an ePortfolio or other collection that includes samples of your work over time, shows your progress, and helps you reflect on the knowledge and skills you have gained?^j										
	FYSsr09_21	Yes		136	27	6,092	28	27%	28%	.62
		No		326	64	13,329	63			
		Unsure		38	8	1,839	9			
		Total		500	100	21,260	100			
9. Is there anything your institution could have done better to prepare you for your career or further education? Please describe.										

This final question asked students to respond in an open text box. Comments were recorded for 161 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.

Seniors

Variable name	N	Mean		Standard error ^f		Standard deviation ^g		DF ^h	Sig. ⁱ	Effect size ^d
		CSU, Chico		FY Exp / Sr Transiti		FY Exp / Sr Transiti				
		CSU, Chico	FY Exp / Sr Transiti	CSU, Chico	FY Exp / Sr Transiti	CSU, Chico	FY Exp / Sr Transiti			
FYSsr01b ^k	233	.475	.550	.0328	.0068	--	--	--	.026	-.15
FYSsr02	361	3.03	3.03	.046	.010	0.87	0.90	8,938	.962	.00
FYSsr03 ^k	509	.887	.858	.0141	.0031	--	--	--	.071	.09
FYSsr04 ^k	510	.206	.208	.0179	.0036	--	--	--	.915	.00
FYSsr05 ^k	508	.240	.234	.0190	.0038	--	--	--	.748	.01
FYSsr06a	501	3.42	3.44	.032	.006	0.71	0.68	13,071	.401	-.04
FYSsr06b	501	3.46	3.47	.030	.006	0.67	0.66	13,047	.608	-.02
FYSsr06c	501	3.19	3.25	.036	.007	0.82	0.77	13,049	.068	-.08
FYSsr06d	501	3.33	3.33	.033	.007	0.74	0.73	13,053	.942	.00
FYSsr06e	500	3.02	3.08	.038	.008	0.85	0.84	13,051	.104	-.07
FYSsr06f	501	3.06	3.11	.037	.007	0.83	0.83	13,056	.196	-.06
FYSsr06g	500	2.56	2.58	.044	.009	0.99	0.99	13,047	.513	-.03
FYSsr06h	501	2.34	2.42	.045	.009	1.01	1.03	13,046	.083	-.08
FYSsr06i	501	3.17	3.24	.038	.007	0.85	0.83	13,047	.093	-.08
FYSsr06j	500	2.96	3.03	.041	.008	0.92	0.89	13,050	.098	-.08
FYSsr07a	500	3.12	3.14	.039	.007	0.87	0.83	13,025	.648	-.02
FYSsr07b	499	2.49	2.60	.048	.009	1.08	1.06	13,019	.027	-.10
FYSsr07c	499	3.04	3.09	.040	.008	0.90	0.85	13,008	.188	-.06
FYSsr07d	498	2.71	2.79	.045	.009	1.00	0.97	12,961	.064	-.08
FYSsr09_21 ^k	496	0.27	0.28	.0200	.0040	--	--	--	.624	-.02

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

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.