
The University of Arizona
NSSE 2012 Major Field Report
Part II. Comparisons to Other Institutions
Physical Sciences

*Comparing your students majoring in Physical Sciences fields to those
in Physical Sciences fields at your comparison group institutions*

The major field report category 'Physical Sciences' includes the following majors: Astronomy; Atmospheric science (including meteorology); Chemistry; Earth science (including geology); Mathematics; Physics; Statistics; Other physical science .



Frequency Distributions

Physical Sciences

The University of Arizona

NSSE 2012 Major Field Report

Part II. Comparisons to Other Institutions

NSSE 2012 Major Field Report: Part II. Comparisons to Other Institutions

Interpreting the Frequency Distributions

Sample

This report is based on information from all randomly selected or census-administered Physical Sciences students for both your institution and your comparison institutions. Targeted and locally administered oversamples and other non-randomly selected students are not included.

Variable Names

The name of each variable appears in the first column for easy reference to your raw data file.

Survey Item

The items from the NSSE survey appear in the left column in the same order and wording as they appear on the instrument.

Benchmark

Items that make up the five "Benchmarks of Effective Educational Practice" are indicated by the following:

- LAC:** Level of Academic Challenge
- ACL:** Active and Collaborative Learning
- SFI:** Student-Faculty Interaction
- EEE:** Enriching Educational
- SCE:** Supportive Campus Environment

Response Options

Response options are listed as they appear on the instrument.

Class

Frequency distributions are given separately by institution-reported class level. Of course, first-year student majors may be unstable, and their results should be interpreted with caution.

Variable	Response Options	First-Year Students								Seniors								
		NSSEville State		Mid East Private		Carnegie Class		NSSE 2012		NSSEville State		Mid East Private		Carnegie Class		NSSE 2012		
		Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	
la. Asked questions in class or contributed to class discussions	CLQUEST (ACL)	Never	0	0%	21	1%	87	2%	358	2%	2	2%	33	1%	86	1%	344	1%
	Sometimes	27	25%	432	21%	1,619	31%	5,773	28%	20	17%	391	14%	1,757	20%	5,623	18%	
	Often	36	34%	721	35%	1,894	36%	7,319	35%	27	23%	757	28%	2,662	30%	8,997	30%	
	Very often	44	41%	882	43%	1,688	32%	7,196	35%	70	59%	1,547	57%	4,235	48%	15,469	51%	
	Total	107	100%	2,056	100%	5,288	100%	20,646	100%	119	100%	2,728	100%	8,740	100%	30,433	100%	
lb. Made a class presentation	CLPRESEN (ACL)	Never	9	8%	141	7%	437	8%	2,050	10%	15	13%	181	7%	328	4%	1,464	5%
	Sometimes	44	42%	1,024	50%	2,650	50%	10,505	51%	32	27%	829	30%	2,923	33%	10,934	36%	
	Often	39	37%	620	30%	1,633	31%	5,904	29%	42	36%	1,047	38%	3,411	39%	11,451	38%	
	Very often	14	13%	272	13%	559	11%	2,175	11%	29	25%	672	25%	2,078	24%	6,604	22%	
	Total	106	100%	2,057	100%	5,279	100%	20,634	100%	118	100%	2,729	100%	8,740	100%	30,453	100%	
lc. Prepared two or more drafts of a paper or assignment before turning it in	REWROPAP	Never	15	14%	293	14%	674	13%	2,832	14%	23	19%	461	17%	1,339	15%	5,035	17%
	Sometimes	24	22%	744	36%	1,656	31%	6,852	33%	42	36%	1,049	39%	3,226	37%	11,403	38%	
	Often	36	34%	622	30%	1,685	32%	6,493	32%	27	23%	661	24%	2,289	26%	7,686	25%	
	Very often	32	30%	387	19%	1,252	24%	4,382	21%	26	22%	552	20%	1,869	21%	6,243	21%	
	Total	107	100%	2,046	100%	5,267	100%	20,559	100%	118	100%	2,723	100%	8,723	100%	30,367	100%	

Count

The Count column represents the actual number of students who selected the particular option in each question.

Major Categories

Self-reported majors (primary major if two were reported) were identified from the survey. Institutions had the option to customize how these were grouped, using up to eight related-major categories.

Major categories with fewer than five respondents in a given class are not reported. Comparison groups must contain at least three institutions with five or more respondents in the major category, or they remain blank.

Column Percentage (%)

The '%' column represents the percentage of students who selected the particular option in each question.

Weighting

All results displayed in this report are unweighted.



NSSE 2012 Major Field Report: Part II. Comparisons to Other Institutions
Frequency Distributions-Physical Sciences
The University of Arizona

			First-Year Students								Seniors								
			Arizona		AAUDE		Carnegie Class		NSSE 2012		Arizona		AAUDE		Carnegie Class		NSSE 2012		
	Variable	Response Options	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	
1a.	Asked questions in class or contributed to class discussions	CLQUEST (ACL)	Never	3	7%	8	4%	17	4%	93	2%	3	6%	12	4%	34	5%	130	3%
Sometimes			15	36%	94	45%	204	43%	1,295	34%	18	38%	113	42%	249	38%	1,296	25%	
Often			16	38%	60	29%	154	32%	1,297	34%	9	19%	78	29%	190	29%	1,589	31%	
Very often			8	19%	47	22%	104	22%	1,164	30%	18	38%	69	25%	176	27%	2,089	41%	
Total		42	100%	209	100%	479	100%	3,849	100%	48	100%	272	100%	649	100%	5,104	100%		
1b.	Made a class presentation	CLPRESEN (ACL)	Never	10	24%	42	20%	120	25%	643	17%	4	9%	43	16%	125	19%	474	9%
Sometimes			26	62%	138	67%	277	58%	2,205	57%	26	55%	153	56%	340	53%	2,204	43%	
Often			5	12%	18	9%	65	14%	792	21%	10	21%	57	21%	143	22%	1,613	32%	
Very often			1	2%	9	4%	16	3%	210	5%	7	15%	18	7%	39	6%	801	16%	
Total	42	100%	207	100%	478	100%	3,850	100%	47	100%	271	100%	647	100%	5,092	100%			
1c.	Prepared two or more drafts of a paper or assignment before turning it in	REWROPAP	Never	7	17%	43	20%	103	21%	666	17%	14	30%	93	34%	201	31%	1,072	21%
Sometimes			10	24%	61	29%	133	28%	1,217	32%	17	36%	99	36%	233	36%	2,065	41%	
Often			14	33%	60	29%	143	30%	1,181	31%	9	19%	51	19%	135	21%	1,201	24%	
Very often			11	26%	46	22%	102	21%	785	20%	7	15%	29	11%	76	12%	728	14%	
Total	42	100%	210	100%	481	100%	3,849	100%	47	100%	272	100%	645	100%	5,066	100%			
1d.	Worked on a paper or project that required integrating ideas or information from various sources	INTEGRAT	Never	1	2%	9	4%	25	5%	110	3%	2	4%	14	5%	38	6%	144	3%
Sometimes			13	31%	61	29%	120	25%	927	24%	8	17%	69	25%	174	27%	1,020	20%	
Often			16	38%	89	42%	211	44%	1,654	43%	22	46%	108	40%	240	37%	2,003	39%	
Very often			12	29%	51	24%	123	26%	1,171	30%	16	33%	80	30%	196	30%	1,931	38%	
Total	42	100%	210	100%	479	100%	3,862	100%	48	100%	271	100%	648	100%	5,098	100%			
1e.	Included diverse perspectives (different races, religions, genders, political beliefs, etc.) in class discussions or writing assignments	DIVCLASS	Never	7	17%	20	10%	55	12%	340	9%	14	30%	60	22%	156	24%	839	16%
Sometimes			17	40%	83	40%	170	36%	1,324	34%	22	47%	98	36%	241	37%	1,984	39%	
Often			10	24%	67	32%	146	31%	1,373	36%	5	11%	76	28%	157	24%	1,442	28%	
Very often			8	19%	37	18%	102	22%	812	21%	6	13%	36	13%	93	14%	821	16%	
Total	42	100%	207	100%	473	100%	3,849	100%	47	100%	270	100%	647	100%	5,086	100%			
1f.	Come to class without completing readings or assignments	CLUNPREP	Never	6	15%	43	21%	106	22%	1,112	29%	11	23%	45	16%	113	17%	1,123	22%
Sometimes			23	56%	117	56%	261	55%	2,158	56%	25	52%	145	53%	343	53%	2,839	56%	
Often			10	24%	40	19%	87	18%	422	11%	11	23%	58	21%	137	21%	771	15%	
Very often			2	5%	9	4%	24	5%	167	4%	1	2%	25	9%	55	8%	361	7%	
Total	41	100%	209	100%	478	100%	3,859	100%	48	100%	273	100%	648	100%	5,094	100%			
1g.	Worked with other students on projects during class	CLASSGRP (ACL)	Never	9	21%	30	14%	77	16%	535	14%	8	17%	62	23%	150	23%	820	16%
Sometimes			20	48%	89	42%	198	41%	1,654	43%	19	40%	121	45%	295	46%	2,265	44%	
Often			11	26%	66	31%	136	28%	1,230	32%	17	35%	59	22%	136	21%	1,360	27%	
Very often			2	5%	25	12%	70	15%	442	11%	4	8%	26	10%	63	10%	649	13%	
Total	42	100%	210	100%	481	100%	3,861	100%	48	100%	268	100%	644	100%	5,094	100%			

NSSE 2012 Major Field Report: Part II. Comparisons to Other Institutions
Frequency Distributions-Physical Sciences
The University of Arizona

			First-Year Students								Seniors								
			Arizona		AAUDE		Carnegie Class		NSSE 2012		Arizona		AAUDE		Carnegie Class		NSSE 2012		
Item	Variable	Response Options	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	
lh.	Worked with classmates outside of class to prepare class assignments	OCCGRP (ACL)	Never	6	14%	24	11%	61	13%	391	10%	4	8%	28	10%	67	10%	299	6%
			Sometimes	13	31%	84	40%	192	40%	1,541	40%	16	33%	89	33%	233	36%	1,612	32%
			Often	17	40%	70	33%	154	32%	1,284	33%	15	31%	91	33%	213	33%	1,796	35%
			Very often	6	14%	32	15%	72	15%	652	17%	13	27%	65	24%	138	21%	1,404	27%
		Total	42	100%	210	100%	479	100%	3,868	100%	48	100%	273	100%	651	100%	5,111	100%	
li.	Put together ideas or concepts from different courses when completing assignments or during class discussions	INTIDEAS	Never	5	12%	15	7%	35	7%	227	6%	2	4%	14	5%	31	5%	147	3%
			Sometimes	17	40%	81	39%	173	36%	1,503	39%	12	25%	76	28%	194	30%	1,428	28%
			Often	16	38%	83	40%	193	41%	1,471	38%	15	31%	101	37%	246	38%	2,096	41%
			Very often	4	10%	28	14%	73	15%	646	17%	19	40%	80	30%	177	27%	1,405	28%
		Total	42	100%	207	100%	474	100%	3,847	100%	48	100%	271	100%	648	100%	5,076	100%	
lj.	Tutored or taught other students (paid or voluntary)	TUTOR (ACL)	Never	16	38%	53	25%	135	28%	1,295	34%	15	31%	70	26%	166	26%	1,034	20%
			Sometimes	15	36%	82	39%	210	44%	1,459	38%	14	29%	75	28%	189	29%	1,616	32%
			Often	10	24%	45	21%	83	17%	678	18%	9	19%	55	20%	131	20%	980	19%
			Very often	1	2%	30	14%	52	11%	422	11%	10	21%	71	26%	160	25%	1,450	29%
		Total	42	100%	210	100%	480	100%	3,854	100%	48	100%	271	100%	646	100%	5,080	100%	
lk.	Participated in a community- based project (e.g. service learning) as part of a regular course	COMMPROJ (ACL)	Never	32	78%	127	62%	297	62%	2,360	61%	35	73%	190	71%	452	70%	3,003	59%
			Sometimes	6	15%	59	29%	123	26%	960	25%	8	17%	60	22%	131	20%	1,378	27%
			Often	2	5%	13	6%	41	9%	357	9%	1	2%	11	4%	34	5%	415	8%
			Very often	1	2%	7	3%	15	3%	161	4%	4	8%	8	3%	26	4%	259	5%
		Total	41	100%	206	100%	476	100%	3,838	100%	48	100%	269	100%	643	100%	5,055	100%	
ll.	Used an electronic medium (listserv, chat group, Internet, instant messaging, etc.) to discuss or complete an assignment	ITACADEM (EEE)	Never	8	20%	15	7%	54	11%	577	15%	5	10%	28	10%	62	10%	642	13%
			Sometimes	8	20%	67	32%	132	28%	1,085	28%	11	23%	82	30%	212	33%	1,544	30%
			Often	13	32%	63	30%	144	30%	1,117	29%	15	31%	79	29%	184	28%	1,401	28%
			Very often	12	29%	64	31%	149	31%	1,078	28%	17	35%	82	30%	188	29%	1,502	30%
		Total	41	100%	209	100%	479	100%	3,857	100%	48	100%	271	100%	646	100%	5,089	100%	
lm.	Used e-mail to communicate with an instructor	EMAIL	Never	0	0%	3	1%	9	2%	41	1%	1	2%	4	1%	9	1%	38	1%
			Sometimes	6	14%	48	23%	109	23%	728	19%	6	13%	44	16%	101	16%	623	12%
			Often	21	50%	89	42%	178	37%	1,356	35%	12	25%	103	38%	233	36%	1,503	30%
			Very often	15	36%	70	33%	184	38%	1,731	45%	29	60%	121	44%	306	47%	2,921	57%
		Total	42	100%	210	100%	480	100%	3,856	100%	48	100%	272	100%	649	100%	5,085	100%	
ln.	Discussed grades or assignments with an instructor	FACGRADE (SFI)	Never	5	12%	24	12%	57	12%	297	8%	3	6%	22	8%	46	7%	230	5%
			Sometimes	13	31%	101	49%	216	45%	1,578	41%	16	33%	120	44%	269	41%	1,666	33%
			Often	18	43%	55	26%	117	25%	1,182	31%	17	35%	78	29%	187	29%	1,707	34%
			Very often	6	14%	28	13%	86	18%	789	21%	12	25%	51	19%	147	23%	1,486	29%
		Total	42	100%	208	100%	476	100%	3,846	100%	48	100%	271	100%	649	100%	5,089	100%	

NSSE 2012 Major Field Report: Part II. Comparisons to Other Institutions
Frequency Distributions-Physical Sciences
The University of Arizona

			First-Year Students								Seniors								
			Arizona		AAUDE		Carnegie Class		NSSE 2012		Arizona		AAUDE		Carnegie Class		NSSE 2012		
	Variable	Response Options	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	
1o.	Talked about career plans with a faculty member or advisor	FACPLANS (SFI)	Never	10	24%	54	26%	112	23%	783	20%	7	15%	45	17%	121	19%	570	11%
			Sometimes	20	48%	102	49%	230	48%	1,799	47%	21	45%	117	43%	257	40%	1,836	36%
			Often	10	24%	39	19%	92	19%	834	22%	9	19%	62	23%	148	23%	1,386	27%
			Very often	2	5%	15	7%	46	10%	437	11%	10	21%	47	17%	118	18%	1,289	25%
	Total	42	100%	210	100%	480	100%	3,853	100%	47	100%	271	100%	644	100%	5,081	100%		
1p.	Discussed ideas from your readings or classes with faculty members outside of class	FACIDEAS (SFI)	Never	26	62%	79	38%	174	36%	1,393	36%	15	31%	92	34%	199	31%	1,114	22%
			Sometimes	8	19%	89	43%	201	42%	1,552	40%	18	38%	104	38%	256	40%	2,142	42%
			Often	6	14%	30	14%	70	15%	610	16%	7	15%	47	17%	125	19%	1,125	22%
			Very often	2	5%	11	5%	34	7%	302	8%	8	17%	28	10%	65	10%	704	14%
	Total	42	100%	209	100%	479	100%	3,857	100%	48	100%	271	100%	645	100%	5,085	100%		
1q.	Received prompt written or oral feedback from faculty on your academic performance	FACFEED (SFI)	Never	2	5%	16	8%	34	7%	218	6%	3	6%	21	8%	64	10%	216	4%
			Sometimes	18	43%	91	44%	190	40%	1,255	33%	17	35%	101	37%	229	35%	1,404	28%
			Often	14	33%	76	37%	187	39%	1,618	42%	19	40%	114	42%	259	40%	2,302	45%
			Very often	8	19%	24	12%	66	14%	768	20%	9	19%	36	13%	96	15%	1,183	23%
	Total	42	100%	207	100%	477	100%	3,859	100%	48	100%	272	100%	648	100%	5,105	100%		
1r.	Worked harder than you thought you could to meet an instructor's standards or expectations	WORKHARD (LAC)	Never	4	10%	23	11%	48	10%	320	8%	7	15%	34	13%	60	9%	380	7%
			Sometimes	24	57%	79	38%	183	38%	1,275	33%	13	27%	108	40%	244	38%	1,638	32%
			Often	11	26%	71	34%	161	34%	1,462	38%	18	38%	84	31%	228	35%	1,922	38%
			Very often	3	7%	35	17%	85	18%	794	21%	10	21%	44	16%	113	18%	1,147	23%
	Total	42	100%	208	100%	477	100%	3,851	100%	48	100%	270	100%	645	100%	5,087	100%		
1s.	Worked with faculty members on activities other than coursework (committees, orientation, student life activities, etc.)	FACOTHER (SFI)	Never	30	71%	123	59%	276	58%	1,986	52%	23	48%	116	43%	288	45%	1,704	33%
			Sometimes	8	19%	50	24%	129	27%	1,183	31%	9	19%	85	31%	194	30%	1,736	34%
			Often	3	7%	25	12%	47	10%	481	12%	7	15%	48	18%	106	16%	979	19%
			Very often	1	2%	11	5%	24	5%	200	5%	9	19%	21	8%	59	9%	683	13%
	Total	42	100%	209	100%	476	100%	3,850	100%	48	100%	270	100%	647	100%	5,102	100%		
1t.	Discussed ideas from your readings or classes with others outside of class (students, family members, co-workers, etc.)	OOCIDEAS (ACL)	Never	7	17%	13	6%	26	5%	215	6%	3	6%	19	7%	49	8%	213	4%
			Sometimes	13	31%	76	36%	173	36%	1,281	33%	18	38%	93	34%	210	32%	1,537	30%
			Often	11	26%	71	34%	170	36%	1,405	36%	15	32%	91	33%	223	34%	1,928	38%
			Very often	11	26%	49	23%	109	23%	957	25%	11	23%	69	25%	165	26%	1,417	28%
	Total	42	100%	209	100%	478	100%	3,858	100%	47	100%	272	100%	647	100%	5,095	100%		
1u.	Had serious conversations with students of a different race or ethnicity than your own	DIVRSTUD (EEE)	Never	11	26%	32	15%	77	16%	590	15%	5	10%	31	11%	89	14%	674	13%
			Sometimes	13	31%	66	32%	137	29%	1,213	31%	11	23%	78	29%	195	30%	1,690	33%
			Often	6	14%	46	22%	120	25%	1,013	26%	14	29%	73	27%	176	27%	1,369	27%
			Very often	12	29%	65	31%	144	30%	1,042	27%	18	38%	90	33%	189	29%	1,375	27%
	Total	42	100%	209	100%	478	100%	3,858	100%	48	100%	272	100%	649	100%	5,108	100%		

NSSE 2012 Major Field Report: Part II. Comparisons to Other Institutions
Frequency Distributions-Physical Sciences
The University of Arizona

			First-Year Students								Seniors								
			Arizona		AAUDE		Carnegie Class		NSSE 2012		Arizona		AAUDE		Carnegie Class		NSSE 2012		
	Variable	Response Options	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	
1v.	Had serious conversations with students who are very different from you in terms of their religious beliefs, political opinions, or personal values	DIFFSTU2 (EEE)	Never	10	24%	24	11%	53	11%	441	11%	5	10%	28	10%	77	12%	514	10%
			Sometimes	13	31%	73	35%	156	33%	1,201	31%	15	31%	89	33%	204	31%	1,669	33%
			Often	8	19%	51	24%	128	27%	1,111	29%	7	15%	77	28%	196	30%	1,497	29%
			Very often	11	26%	61	29%	142	30%	1,111	29%	21	44%	77	28%	172	27%	1,422	28%
			Total	42	100%	209	100%	479	100%	3,864	100%	48	100%	271	100%	649	100%	5,102	100%
2a.	Coursework emphasizes: Memorizing facts, ideas, or methods from your courses and readings	MEMORIZE	Very little	0	0%	12	6%	21	4%	216	6%	5	10%	29	11%	60	9%	469	9%
			Some	17	41%	56	27%	132	28%	1,020	26%	14	29%	82	30%	195	30%	1,549	30%
			Quite a bit	16	39%	93	45%	204	43%	1,527	40%	13	27%	92	34%	210	32%	1,777	35%
			Very much	8	20%	45	22%	119	25%	1,091	28%	16	33%	69	25%	183	28%	1,305	26%
			Total	41	100%	206	100%	476	100%	3,854	100%	48	100%	272	100%	648	100%	5,100	100%
2b.	Coursework emphasizes: Analyzing the basic elements of an idea, experience, or theory	ANALYZE (LAC)	Very little	2	5%	5	2%	9	2%	53	1%	1	2%	2	1%	6	1%	55	1%
			Some	6	15%	23	11%	55	12%	485	13%	3	6%	30	11%	63	10%	432	8%
			Quite a bit	15	37%	94	46%	204	43%	1,610	42%	15	31%	99	37%	226	35%	1,812	36%
			Very much	18	44%	84	41%	208	44%	1,695	44%	29	60%	139	51%	350	54%	2,790	55%
			Total	41	100%	206	100%	476	100%	3,843	100%	48	100%	270	100%	645	100%	5,089	100%
2c.	Coursework emphasizes: Synthesizing and organizing ideas, information, or experiences	SYNTHESZ (LAC)	Very little	5	13%	6	3%	14	3%	119	3%	4	8%	8	3%	21	3%	124	2%
			Some	10	25%	52	25%	121	25%	846	22%	9	19%	51	19%	120	19%	859	17%
			Quite a bit	18	45%	84	41%	190	40%	1,582	41%	12	25%	105	39%	239	37%	1,947	38%
			Very much	7	18%	64	31%	150	32%	1,285	34%	23	48%	108	40%	266	41%	2,142	42%
			Total	40	100%	206	100%	475	100%	3,832	100%	48	100%	272	100%	646	100%	5,072	100%
2d.	Coursework emphasizes: Making judgments about the value of information, arguments, or methods	EVALUATE (LAC)	Very little	5	12%	18	9%	35	7%	208	5%	2	4%	17	6%	42	7%	292	6%
			Some	15	37%	44	21%	122	26%	926	24%	12	26%	76	28%	187	29%	1,287	25%
			Quite a bit	15	37%	94	45%	179	38%	1,555	40%	16	34%	99	36%	217	34%	1,855	37%
			Very much	6	15%	51	25%	141	30%	1,154	30%	17	36%	80	29%	198	31%	1,643	32%
			Total	41	100%	207	100%	477	100%	3,843	100%	47	100%	272	100%	644	100%	5,077	100%
2e.	Coursework emphasizes: Applying theories or concepts to practical problems or in new situations	APPLYING (LAC)	Very little	3	7%	7	3%	15	3%	103	3%	5	10%	11	4%	23	4%	111	2%
			Some	7	17%	34	16%	82	17%	601	16%	1	2%	30	11%	81	12%	623	12%
			Quite a bit	17	41%	71	34%	161	34%	1,400	36%	18	38%	97	36%	208	32%	1,616	32%
			Very much	14	34%	95	46%	217	46%	1,746	45%	24	50%	133	49%	337	52%	2,746	54%
			Total	41	100%	207	100%	475	100%	3,850	100%	48	100%	271	100%	649	100%	5,096	100%
3a.	Number of assigned textbooks, books, or book-length packs of course readings	READASGN (LAC)	None	0	0%	1	0%	4	1%	26	1%	1	2%	9	3%	14	2%	82	2%
			1-4	8	19%	40	19%	118	25%	828	21%	20	42%	102	38%	246	38%	1,769	35%
			5-10	19	45%	95	46%	207	43%	1,615	42%	21	44%	103	38%	257	39%	2,033	40%
			11-20	11	26%	51	25%	108	23%	960	25%	5	10%	32	12%	90	14%	807	16%
			More than 20	4	10%	20	10%	41	9%	426	11%	1	2%	26	10%	44	7%	415	8%
			Total	42	100%	207	100%	478	100%	3,855	100%	48	100%	272	100%	651	100%	5,106	100%

NSSE 2012 Major Field Report: Part II. Comparisons to Other Institutions
Frequency Distributions-Physical Sciences
The University of Arizona

First-Year Students

Seniors

	Variable	Response Options	Arizona		AAUDE		Carnegie Class		NSSE 2012		Arizona		AAUDE		Carnegie Class		NSSE 2012	
			Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%
3b. Number of books read on your own (not assigned) for personal enjoyment or academic enrichment	READOWN	None	8	19%	42	20%	118	25%	1,014	26%	9	19%	53	20%	135	21%	1,038	20%
		1-4	25	60%	118	56%	247	52%	2,042	53%	24	50%	154	57%	343	53%	2,647	52%
		5-10	6	14%	34	16%	77	16%	527	14%	9	19%	37	14%	100	15%	881	17%
		11-20	0	0%	10	5%	19	4%	152	4%	0	0%	15	6%	36	6%	284	6%
		More than 20	3	7%	6	3%	18	4%	125	3%	6	13%	11	4%	34	5%	247	5%
	Total	42	100%	210	100%	479	100%	3,860	100%	48	100%	270	100%	648	100%	5,097	100%	
3c. Number of written papers or reports of 20 pages or more	WRITEMOR (LAC)	None	37	88%	177	85%	403	84%	3,321	86%	27	56%	175	65%	427	66%	2,978	58%
		1-4	3	7%	20	10%	53	11%	381	10%	19	40%	80	30%	186	29%	1,779	35%
		5-10	2	5%	10	5%	17	4%	84	2%	2	4%	10	4%	20	3%	219	4%
		11-20	0	0%	1	0%	2	0%	35	1%	0	0%	3	1%	12	2%	81	2%
		More than 20	0	0%	1	0%	2	0%	28	1%	0	0%	2	1%	3	0%	47	1%
	Total	42	100%	209	100%	477	100%	3,849	100%	48	100%	270	100%	648	100%	5,104	100%	
3d. Number of written papers or reports between 5 and 19 pages	WRITEMID (LAC)	None	5	12%	29	14%	76	16%	586	15%	5	10%	51	19%	127	20%	792	16%
		1-4	19	45%	121	58%	267	56%	2,198	57%	22	46%	124	46%	304	47%	2,449	48%
		5-10	15	36%	48	23%	111	23%	861	22%	12	25%	63	24%	136	21%	1,242	24%
		11-20	2	5%	7	3%	18	4%	165	4%	7	15%	21	8%	56	9%	412	8%
		More than 20	1	2%	3	1%	7	1%	58	1%	2	4%	8	3%	24	4%	211	4%
	Total	42	100%	208	100%	479	100%	3,868	100%	48	100%	267	100%	647	100%	5,106	100%	
3e. Number of written papers or reports of fewer than 5 pages	WRITESML (LAC)	None	0	0%	6	3%	20	4%	119	3%	5	10%	38	14%	95	15%	479	9%
		1-4	14	33%	83	40%	173	36%	1,276	33%	24	50%	108	40%	256	40%	1,896	37%
		5-10	16	38%	76	36%	167	35%	1,341	35%	8	17%	61	23%	161	25%	1,374	27%
		11-20	10	24%	27	13%	82	17%	732	19%	6	13%	33	12%	79	12%	779	15%
		More than 20	2	5%	18	9%	39	8%	403	10%	5	10%	29	11%	57	9%	583	11%
	Total	42	100%	210	100%	481	100%	3,871	100%	48	100%	269	100%	648	100%	5,111	100%	
4a. Number of problem sets that take you more than an hour to complete	PROBSETA	None	4	10%	6	3%	16	3%	195	5%	1	2%	14	5%	27	4%	229	4%
		1-2	17	40%	69	33%	168	35%	1,224	32%	11	23%	80	29%	208	32%	1,532	30%
		3-4	15	36%	78	37%	175	36%	1,326	34%	21	44%	103	38%	224	34%	1,723	34%
		5-6	2	5%	32	15%	59	12%	519	13%	3	6%	23	8%	62	10%	610	12%
		More than 6	4	10%	25	12%	62	13%	604	16%	12	25%	52	19%	130	20%	1,020	20%
	Total	42	100%	210	100%	480	100%	3,868	100%	48	100%	272	100%	651	100%	5,114	100%	
4b. Number of problem sets that take you less than an hour to complete	PROBSETB	None	6	14%	32	15%	62	13%	446	12%	26	54%	112	41%	233	36%	1,433	28%
		1-2	15	36%	85	40%	207	43%	1,407	36%	15	31%	92	34%	238	37%	1,992	39%
		3-4	8	19%	49	23%	108	23%	967	25%	1	2%	24	9%	84	13%	833	16%
		5-6	5	12%	16	8%	43	9%	408	11%	1	2%	16	6%	34	5%	301	6%
		More than 6	8	19%	28	13%	60	13%	632	16%	5	10%	27	10%	55	9%	536	11%
	Total	42	100%	210	100%	480	100%	3,860	100%	48	100%	271	100%	644	100%	5,095	100%	



NSSE 2012 Major Field Report: Part II. Comparisons to Other Institutions
Frequency Distributions-Physical Sciences
The University of Arizona

First-Year Students

Seniors

	Variable	Response Options	Arizona		AAUDE		Carnegie Class		NSSE 2012		Arizona		AAUDE		Carnegie Class		NSSE 2012		
			Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	
5.	Select the circle that best represents the extent to which your examinations during the current school year challenged you to do your best work	EXAMS	1	2%	0	0%	0	0%	20	1%	1	2%	3	1%	7	1%	46	1%	
2			5%	8	4%	10	2%	47	1%	1	2%	5	2%	13	2%	71	1%		
3			5%	9	4%	15	3%	115	3%	0	0%	13	5%	25	4%	161	3%		
4			14%	18	9%	32	7%	364	9%	6	13%	30	11%	58	9%	402	8%		
5			26%	65	31%	150	31%	1,072	28%	8	17%	75	27%	178	27%	1,322	26%		
6			31%	61	29%	155	32%	1,359	35%	15	31%	93	34%	220	34%	1,775	35%		
7			17%	48	23%	117	24%	897	23%	17	35%	54	20%	148	23%	1,342	26%		
Total			42	100%	209	100%	479	100%	3,874	100%	48	100%	273	100%	649	100%	5,119	100%	
6a.	Attended an art exhibit, play, dance, music, theater, or other performance	ATDART07	Never	15	37%	45	21%	121	25%	850	22%	20	42%	89	33%	236	36%	1,556	30%
Sometimes			18	44%	115	55%	248	52%	1,888	49%	22	46%	133	49%	289	44%	2,486	49%	
Often			3	7%	30	14%	79	16%	765	20%	3	6%	36	13%	86	13%	742	15%	
Very often			5	12%	20	10%	33	7%	364	9%	3	6%	15	5%	41	6%	321	6%	
Total			41	100%	210	100%	481	100%	3,867	100%	48	100%	273	100%	652	100%	5,105	100%	
6b.	Exercised or participated in physical fitness activities	EXRCSE05	Never	10	24%	18	9%	48	10%	404	10%	9	19%	26	10%	66	10%	541	11%
Sometimes			14	33%	77	37%	149	31%	1,057	27%	9	19%	83	30%	222	34%	1,591	31%	
Often			4	10%	51	24%	126	26%	952	25%	13	28%	79	29%	176	27%	1,208	24%	
Very often			14	33%	63	30%	155	32%	1,444	37%	16	34%	85	31%	186	29%	1,759	34%	
Total			42	100%	209	100%	478	100%	3,857	100%	47	100%	273	100%	650	100%	5,099	100%	
6c.	Participated in activities to enhance your spirituality (worship, meditation, prayer, etc.)	WORSH05	Never	22	52%	99	47%	208	43%	1,774	46%	27	56%	154	57%	328	51%	2,322	46%
Sometimes			5	12%	66	32%	141	29%	1,014	26%	7	15%	59	22%	138	21%	1,188	23%	
Often			4	10%	19	9%	56	12%	484	13%	6	13%	30	11%	71	11%	622	12%	
Very often			11	26%	25	12%	75	16%	585	15%	8	17%	29	11%	111	17%	962	19%	
Total			42	100%	209	100%	480	100%	3,857	100%	48	100%	272	100%	648	100%	5,094	100%	
6d.	Examined the strengths and weaknesses of your own views on a topic or issue	OWNVIEW	Never	7	17%	18	9%	49	10%	384	10%	5	10%	25	9%	69	11%	478	9%
Sometimes			16	38%	87	42%	178	37%	1,424	37%	15	31%	93	34%	215	33%	1,796	35%	
Often			15	36%	66	32%	157	33%	1,293	34%	18	38%	101	37%	222	34%	1,763	35%	
Very often			4	10%	37	18%	92	19%	740	19%	10	21%	54	20%	141	22%	1,054	21%	
Total			42	100%	208	100%	476	100%	3,841	100%	48	100%	273	100%	647	100%	5,091	100%	
6e.	Tried to better understand someone else's views by imagining how an issue looks from his or her perspective	OTHRVIEW	Never	7	17%	9	4%	27	6%	220	6%	2	4%	14	5%	49	8%	318	6%
Sometimes			16	38%	61	29%	148	31%	1,272	33%	14	29%	88	32%	208	32%	1,671	33%	
Often			14	33%	94	45%	195	41%	1,427	37%	18	38%	103	38%	241	37%	1,893	37%	
Very often			5	12%	46	22%	110	23%	939	24%	14	29%	68	25%	153	24%	1,221	24%	
Total			42	100%	210	100%	480	100%	3,858	100%	48	100%	273	100%	651	100%	5,103	100%	
6f.	Learned something that changed the way you understand an issue or concept	CHNGVIEW	Never	4	10%	12	6%	19	4%	157	4%	1	2%	13	5%	27	4%	190	4%
Sometimes			17	40%	58	28%	139	29%	1,161	30%	17	35%	78	29%	200	31%	1,615	32%	
Often			13	31%	82	39%	180	38%	1,492	39%	13	27%	106	39%	256	39%	1,955	38%	
Very often			8	19%	58	28%	141	29%	1,057	27%	17	35%	76	28%	169	26%	1,354	26%	
Total			42	100%	210	100%	479	100%	3,867	100%	48	100%	273	100%	652	100%	5,114	100%	

NOTE: All results are unweighted.

NSSE 2012 Major Field Report: Part II. Comparisons to Other Institutions
Frequency Distributions-Physical Sciences
The University of Arizona

			First-Year Students								Seniors								
			Arizona		AAUDE		Carnegie Class		NSSE 2012		Arizona		AAUDE		Carnegie Class		NSSE 2012		
	Variable	Response Options	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	
7a.	Practicum, internship, field experience, co-op experience, or clinical assignment	INTERN04 (EEE)	Have not decided	7	17%	20	10%	57	12%	469	12%	4	8%	16	6%	47	7%	368	7%
			Do not plan to do	3	7%	9	4%	21	4%	131	3%	2	4%	54	20%	118	18%	888	17%
			Plan to do	30	71%	164	78%	371	77%	3,033	78%	15	31%	66	24%	170	26%	1,231	24%
			Done	2	5%	17	8%	31	6%	232	6%	27	56%	134	50%	314	48%	2,613	51%
		Total	42	100%	210	100%	480	100%	3,865	100%	48	100%	270	100%	649	100%	5,100	100%	
7b.	Community service or volunteer work	VOLNTR04 (EEE)	Have not decided	5	12%	14	7%	48	10%	438	11%	4	8%	24	9%	53	8%	416	8%
			Do not plan to do	3	7%	14	7%	29	6%	238	6%	8	17%	57	21%	133	21%	876	17%
			Plan to do	23	55%	105	51%	212	45%	1,601	42%	8	17%	35	13%	71	11%	566	11%
			Done	11	26%	74	36%	187	39%	1,568	41%	28	58%	153	57%	387	60%	3,229	63%
		Total	42	100%	207	100%	476	100%	3,845	100%	48	100%	269	100%	644	100%	5,087	100%	
7c.	Participate in a learning community or some other formal program where groups of students take two or more classes together	LRNCOM04 (EEE)	Have not decided	17	41%	61	29%	148	31%	1,253	33%	12	25%	27	10%	61	10%	577	11%
			Do not plan to do	17	41%	66	32%	140	30%	1,068	28%	29	60%	166	63%	404	63%	2,858	56%
			Plan to do	7	17%	42	20%	93	20%	867	23%	1	2%	18	7%	37	6%	314	6%
			Done	0	0%	38	18%	93	20%	654	17%	6	13%	54	20%	140	22%	1,326	26%
		Total	41	100%	207	100%	474	100%	3,842	100%	48	100%	265	100%	642	100%	5,075	100%	
7d.	Work on a research project with a faculty member outside of course or program requirements	RESRCH04 (SFI)	Have not decided	10	24%	59	29%	142	30%	1,166	30%	3	6%	19	7%	66	10%	556	11%
			Do not plan to do	6	15%	17	8%	54	11%	450	12%	7	15%	81	30%	191	30%	1,556	30%
			Plan to do	24	59%	122	59%	260	54%	2,022	53%	11	23%	53	20%	112	17%	812	16%
			Done	1	2%	9	4%	22	5%	213	6%	26	55%	116	43%	278	43%	2,180	43%
		Total	41	100%	207	100%	478	100%	3,851	100%	47	100%	269	100%	647	100%	5,104	100%	
7e.	Foreign language coursework	FORLNG04 (EEE)	Have not decided	3	7%	30	14%	70	15%	630	16%	5	10%	15	6%	36	6%	309	6%
			Do not plan to do	10	24%	53	25%	115	24%	955	25%	7	15%	90	33%	212	33%	1,868	37%
			Plan to do	11	27%	51	24%	141	29%	1,271	33%	2	4%	14	5%	45	7%	314	6%
			Done	17	41%	76	36%	152	32%	1,000	26%	34	71%	151	56%	355	55%	2,612	51%
		Total	41	100%	210	100%	478	100%	3,856	100%	48	100%	270	100%	648	100%	5,103	100%	
7f.	Study abroad	STDABR04 (EEE)	Have not decided	13	32%	64	31%	149	31%	1,123	29%	7	15%	24	9%	74	12%	525	10%
			Do not plan to do	10	24%	45	22%	117	25%	1,020	27%	25	52%	181	67%	412	64%	3,436	68%
			Plan to do	16	39%	92	44%	191	40%	1,592	41%	2	4%	22	8%	48	7%	344	7%
			Done	2	5%	8	4%	20	4%	109	3%	14	29%	42	16%	109	17%	777	15%
		Total	41	100%	209	100%	477	100%	3,844	100%	48	100%	269	100%	643	100%	5,082	100%	
7g.	Independent study or self-designed major	INDSTD04 (EEE)	Have not decided	10	24%	61	29%	134	28%	1,184	31%	7	15%	20	7%	55	9%	468	9%
			Do not plan to do	23	55%	110	52%	261	55%	1,849	48%	19	40%	173	64%	419	65%	2,879	57%
			Plan to do	9	21%	30	14%	67	14%	667	17%	4	8%	23	9%	47	7%	431	9%
			Done	0	0%	9	4%	15	3%	135	4%	18	38%	54	20%	123	19%	1,285	25%
		Total	42	100%	210	100%	477	100%	3,835	100%	48	100%	270	100%	644	100%	5,063	100%	

NSSE 2012 Major Field Report: Part II. Comparisons to Other Institutions
Frequency Distributions-Physical Sciences
The University of Arizona

			First-Year Students								Seniors							
			Arizona		AAUDE		Carnegie Class		NSSE 2012		Arizona		AAUDE		Carnegie Class		NSSE 2012	
	Variable	Response Options	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%
7h.	Culminating senior experience (capstone course, senior project or thesis, comprehensive exam, etc.)	SNRX04 (EEE)																
		Have not decided	10	24%	78	37%	198	41%	1,329	34%	8	17%	22	8%	62	10%	413	8%
		Do not plan to do	7	17%	21	10%	53	11%	296	8%	10	21%	91	34%	211	32%	1,042	20%
		Plan to do	25	60%	107	51%	222	46%	2,191	57%	17	36%	71	26%	195	30%	1,705	33%
		Done	0	0%	4	2%	8	2%	46	1%	12	26%	87	32%	182	28%	1,949	38%
		Total	42	100%	210	100%	481	100%	3,862	100%	47	100%	271	100%	650	100%	5,109	100%
8a.	Quality of relationships with other students	ENVSTU (SCE)																
		1 Unfriendly, Unsupportive, Sense of alienation	2	5%	2	1%	4	1%	39	1%	1	2%	2	1%	6	1%	50	1%
		2	1	2%	7	3%	17	4%	96	2%	1	2%	12	4%	21	3%	110	2%
		3	4	10%	12	6%	21	4%	156	4%	2	4%	14	5%	32	5%	178	3%
		4	8	19%	27	13%	51	11%	382	10%	4	8%	38	14%	85	13%	450	9%
		5	15	36%	44	21%	103	21%	824	21%	7	15%	53	20%	151	23%	1,015	20%
		6	5	12%	65	31%	149	31%	1,271	33%	18	38%	78	29%	178	28%	1,666	33%
		7 Friendly, Supportive, Sense of belonging	7	17%	53	25%	135	28%	1,094	28%	15	31%	73	27%	174	27%	1,641	32%
		Total	42	100%	210	100%	480	100%	3,862	100%	48	100%	270	100%	647	100%	5,110	100%
8b.	Quality of relationships with faculty members	ENVFAC (SCE)																
		1 Unavailable, Unhelpful, Unsympathetic	1	2%	3	1%	4	1%	23	1%	0	0%	4	1%	12	2%	49	1%
		2	0	0%	7	3%	11	2%	51	1%	1	2%	5	2%	17	3%	96	2%
		3	1	2%	14	7%	33	7%	148	4%	3	6%	21	8%	38	6%	181	4%
		4	11	26%	40	19%	89	19%	480	12%	8	17%	45	17%	94	14%	436	9%
		5	13	31%	47	22%	134	28%	950	25%	6	13%	72	27%	163	25%	1,043	20%
		6	12	29%	70	33%	137	29%	1,313	34%	16	33%	74	27%	195	30%	1,665	33%
		7 Available, Helpful, Sympathetic	4	10%	28	13%	72	15%	899	23%	14	29%	50	18%	130	20%	1,639	32%
		Total	42	100%	209	100%	480	100%	3,864	100%	48	100%	271	100%	649	100%	5,109	100%
8c.	Quality of relationships with administrative personnel and offices	ENVADM (SCE)																
		1 Unhelpful, Inconsiderate, Rigid	3	7%	5	2%	10	2%	87	2%	3	6%	10	4%	36	6%	238	5%
		2	3	7%	8	4%	23	5%	146	4%	6	13%	22	8%	47	7%	347	7%
		3	7	17%	19	9%	48	10%	310	8%	3	6%	26	10%	65	10%	538	11%
		4	13	31%	59	28%	121	25%	823	21%	8	17%	69	25%	139	21%	1,047	20%
		5	6	14%	52	25%	121	25%	1,028	27%	10	21%	62	23%	156	24%	1,119	22%
		6	7	17%	42	20%	96	20%	882	23%	9	19%	47	17%	116	18%	1,074	21%
		7 Helpful, Considerate, Flexible	3	7%	24	11%	60	13%	590	15%	9	19%	35	13%	88	14%	746	15%
		Total	42	100%	209	100%	479	100%	3,866	100%	48	100%	271	100%	647	100%	5,109	100%

NSSE 2012 Major Field Report: Part II. Comparisons to Other Institutions
Frequency Distributions-Physical Sciences
The University of Arizona

			First-Year Students					Seniors										
			Arizona		AAUDE		Carnegie Class		NSSE 2012		Arizona		AAUDE		Carnegie Class		NSSE 2012	
Variable	Response Options		Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%
9a. Preparing for class (studying, reading, writing, doing homework or lab work, analyzing data, rehearsing, and other academic activities)	ACADPR01 (LAC)	0 hr/wk	0	0%	0	0%	0	0%	8	0%	1	2%	0	0%	0	0%	10	0%
		1-5 hr/wk	2	5%	17	8%	39	8%	317	8%	2	4%	16	6%	49	8%	400	8%
		6-10 hr/wk	7	17%	18	9%	77	16%	688	18%	9	19%	47	18%	115	18%	938	18%
		11-15 hr/wk	12	29%	51	24%	113	24%	852	22%	6	13%	52	19%	130	20%	929	18%
		16-20 hr/wk	9	21%	52	25%	105	22%	801	21%	11	23%	64	24%	131	20%	1,043	20%
		21-25 hr/wk	5	12%	23	11%	54	11%	537	14%	7	15%	38	14%	85	13%	690	14%
		26-30 hr/wk	4	10%	25	12%	42	9%	321	8%	2	4%	11	4%	38	6%	434	9%
		30+ hr/wk	3	7%	23	11%	48	10%	338	9%	10	21%	40	15%	97	15%	649	13%
	Total		42	100%	209	100%	478	100%	3,862	100%	48	100%	268	100%	645	100%	5,093	100%
9b. Working for pay on campus	WORKON01	0 hr/wk	36	86%	149	71%	381	79%	2,918	75%	31	65%	135	50%	353	54%	2,526	50%
		1-5 hr/wk	2	5%	15	7%	25	5%	280	7%	3	6%	28	10%	66	10%	610	12%
		6-10 hr/wk	1	2%	24	11%	36	7%	383	10%	4	8%	45	17%	93	14%	853	17%
		11-15 hr/wk	1	2%	13	6%	22	5%	159	4%	4	8%	31	11%	67	10%	537	11%
		16-20 hr/wk	1	2%	6	3%	13	3%	94	2%	3	6%	18	7%	47	7%	403	8%
		21-25 hr/wk	0	0%	1	0%	2	0%	12	0%	1	2%	4	1%	8	1%	82	2%
		26-30 hr/wk	1	2%	2	1%	2	0%	8	0%	1	2%	6	2%	7	1%	42	1%
		30+ hr/wk	0	0%	0	0%	0	0%	11	0%	1	2%	3	1%	7	1%	45	1%
Total		42	100%	210	100%	481	100%	3,865	100%	48	100%	270	100%	648	100%	5,098	100%	
9c. Working for pay off campus	WORKOF01	0 hr/wk	36	86%	187	89%	404	84%	3,082	80%	34	72%	209	77%	431	67%	3,052	60%
		1-5 hr/wk	0	0%	5	2%	18	4%	188	5%	3	6%	13	5%	46	7%	362	7%
		6-10 hr/wk	3	7%	6	3%	14	3%	138	4%	5	11%	13	5%	29	4%	345	7%
		11-15 hr/wk	1	2%	5	2%	17	4%	119	3%	3	6%	9	3%	30	5%	289	6%
		16-20 hr/wk	0	0%	3	1%	12	2%	117	3%	0	0%	13	5%	34	5%	310	6%
		21-25 hr/wk	1	2%	0	0%	6	1%	72	2%	2	4%	10	4%	23	4%	211	4%
		26-30 hr/wk	1	2%	3	1%	5	1%	50	1%	0	0%	2	1%	12	2%	139	3%
		30+ hr/wk	0	0%	1	0%	5	1%	83	2%	0	0%	1	0%	42	6%	382	8%
Total		42	100%	210	100%	481	100%	3,849	100%	47	100%	270	100%	647	100%	5,090	100%	
9d. Participating in co-curricular activities (organizations, campus publications, student government, fraternity or sorority, intercollegiate or intramural sports, etc.)	COCURR01 (EEE)	0 hr/wk	18	43%	46	22%	143	30%	1,162	30%	28	58%	86	32%	253	39%	1,803	35%
		1-5 hr/wk	13	31%	89	42%	171	36%	1,327	34%	10	21%	98	36%	216	33%	1,678	33%
		6-10 hr/wk	6	14%	45	21%	92	19%	639	17%	6	13%	42	16%	89	14%	729	14%
		11-15 hr/wk	2	5%	17	8%	43	9%	325	8%	2	4%	18	7%	46	7%	359	7%
		16-20 hr/wk	3	7%	3	1%	13	3%	211	5%	0	0%	13	5%	19	3%	243	5%
		21-25 hr/wk	0	0%	2	1%	4	1%	88	2%	1	2%	6	2%	11	2%	119	2%
		26-30 hr/wk	0	0%	3	1%	5	1%	32	1%	0	0%	1	0%	3	0%	52	1%
		30+ hr/wk	0	0%	5	2%	10	2%	83	2%	1	2%	6	2%	11	2%	118	2%
Total		42	100%	210	100%	481	100%	3,867	100%	48	100%	270	100%	648	100%	5,101	100%	

NSSE 2012 Major Field Report: Part II. Comparisons to Other Institutions
Frequency Distributions-Physical Sciences
The University of Arizona

			First-Year Students					Seniors											
9e.	Variable	Response Options	Arizona		AAUDE		Carnegie Class		NSSE 2012		Arizona		AAUDE		Carnegie Class		NSSE 2012		
			Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	
9e.	Relaxing and socializing (watching TV, partying, etc.)	SOCIAL05	0 hr/wk	0	0%	3	1%	4	1%	41	1%	1	2%	3	1%	7	1%	74	1%
			1-5 hr/wk	5	12%	42	20%	94	20%	862	22%	11	23%	57	21%	154	24%	1,329	26%
			6-10 hr/wk	14	33%	57	27%	132	28%	1,167	30%	20	42%	69	26%	201	31%	1,616	32%
			11-15 hr/wk	7	17%	56	27%	127	26%	782	20%	8	17%	68	25%	128	20%	966	19%
			16-20 hr/wk	11	26%	19	9%	52	11%	465	12%	2	4%	42	16%	82	13%	579	11%
			21-25 hr/wk	2	5%	15	7%	33	7%	242	6%	2	4%	12	4%	28	4%	209	4%
			26-30 hr/wk	2	5%	3	1%	6	1%	82	2%	2	4%	5	2%	12	2%	99	2%
			30+ hr/wk	1	2%	14	7%	32	7%	215	6%	2	4%	13	5%	32	5%	224	4%
	Total		42	100%	209	100%	480	100%	3,856	100%	48	100%	269	100%	644	100%	5,096	100%	
9f.	Providing care for dependents living with you (parents, children, spouse, etc.)	CAREDE01	0 hr/wk	37	88%	178	85%	393	82%	3,095	80%	37	77%	228	85%	499	77%	3,620	71%
			1-5 hr/wk	3	7%	18	9%	49	10%	404	11%	5	10%	20	7%	56	9%	593	12%
			6-10 hr/wk	0	0%	8	4%	20	4%	150	4%	2	4%	10	4%	37	6%	282	6%
			11-15 hr/wk	1	2%	3	1%	8	2%	57	1%	1	2%	2	1%	11	2%	118	2%
			16-20 hr/wk	0	0%	2	1%	5	1%	41	1%	1	2%	1	0%	10	2%	122	2%
			21-25 hr/wk	1	2%	0	0%	1	0%	26	1%	0	0%	0	0%	2	0%	40	1%
			26-30 hr/wk	0	0%	0	0%	1	0%	13	0%	1	2%	2	1%	5	1%	36	1%
			30+ hr/wk	0	0%	1	0%	3	1%	61	2%	1	2%	6	2%	26	4%	279	5%
	Total		42	100%	210	100%	480	100%	3,847	100%	48	100%	269	100%	646	100%	5,090	100%	
9g.	Commuting to class (driving, walking, etc.)	COMMUTE	0 hr/wk	2	5%	17	8%	32	7%	814	21%	3	6%	7	3%	35	5%	648	13%
			1-5 hr/wk	29	69%	143	68%	333	69%	2,382	62%	31	65%	201	74%	446	69%	3,318	65%
			6-10 hr/wk	8	19%	38	18%	77	16%	417	11%	12	25%	47	17%	121	19%	783	15%
			11-15 hr/wk	3	7%	10	5%	24	5%	121	3%	2	4%	8	3%	29	4%	221	4%
			16-20 hr/wk	0	0%	2	1%	6	1%	60	2%	0	0%	4	1%	8	1%	63	1%
			21-25 hr/wk	0	0%	0	0%	4	1%	20	1%	0	0%	1	0%	5	1%	27	1%
			26-30 hr/wk	0	0%	0	0%	2	0%	13	0%	0	0%	1	0%	1	0%	9	0%
			30+ hr/wk	0	0%	0	0%	3	1%	33	1%	0	0%	1	0%	4	1%	41	1%
	Total		42	100%	210	100%	481	100%	3,860	100%	48	100%	270	100%	649	100%	5,110	100%	
10a.	Spending significant amounts of time studying and on academic work	ENVSCHOL (LAC)	Very little	0	0%	1	0%	3	1%	50	1%	2	4%	2	1%	7	1%	91	2%
			Some	8	19%	25	12%	70	15%	515	13%	1	2%	37	14%	94	15%	667	13%
			Quite a bit	21	50%	81	39%	196	41%	1,600	41%	17	36%	109	41%	269	42%	2,146	42%
			Very much	13	31%	103	49%	211	44%	1,693	44%	27	57%	120	45%	276	43%	2,199	43%
			Total	42	100%	210	100%	480	100%	3,858	100%	47	100%	268	100%	646	100%	5,103	100%
10b.	Providing the support you need to help you succeed academically	ENVSUPRT (SCE)	Very little	3	7%	5	2%	15	3%	82	2%	6	13%	12	5%	38	6%	208	4%
			Some	7	17%	48	23%	83	17%	551	14%	7	15%	74	28%	181	28%	996	20%
			Quite a bit	21	50%	81	39%	197	41%	1,601	42%	24	51%	110	41%	265	41%	2,108	41%
			Very much	11	26%	75	36%	180	38%	1,604	42%	10	21%	70	26%	159	25%	1,780	35%
			Total	42	100%	209	100%	475	100%	3,838	100%	47	100%	266	100%	643	100%	5,092	100%

NSSE 2012 Major Field Report: Part II. Comparisons to Other Institutions
Frequency Distributions-Physical Sciences
The University of Arizona

			First-Year Students								Seniors								
			Arizona		AAUDE		Carnegie Class		NSSE 2012		Arizona		AAUDE		Carnegie Class		NSSE 2012		
	Variable	Response Options	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	
10c.	Encouraging contact among students from different economic, social, and racial or ethnic backgrounds	ENVDIVRS	Very little	9	22%	22	11%	64	13%	428	11%	9	19%	51	19%	141	22%	926	18%
		(EEE)	Some	14	34%	71	34%	143	30%	1,125	29%	18	38%	82	31%	197	31%	1,712	34%
			Quite a bit	13	32%	56	27%	141	30%	1,271	33%	12	26%	81	30%	172	27%	1,431	28%
			Very much	5	12%	60	29%	127	27%	1,021	27%	8	17%	53	20%	133	21%	1,021	20%
			Total	41	100%	209	100%	475	100%	3,845	100%	47	100%	267	100%	643	100%	5,090	100%
10d.	Helping you cope with your non-academic responsibilities (work, family, etc.)	ENVNACAD	Very little	17	40%	53	25%	115	24%	830	22%	25	52%	95	36%	247	38%	1,604	32%
		(SCE)	Some	20	48%	88	42%	204	43%	1,507	39%	16	33%	108	41%	244	38%	1,989	39%
			Quite a bit	5	12%	45	22%	105	22%	1,027	27%	5	10%	39	15%	101	16%	984	19%
			Very much	0	0%	22	11%	54	11%	492	13%	2	4%	24	9%	51	8%	507	10%
			Total	42	100%	208	100%	478	100%	3,856	100%	48	100%	266	100%	643	100%	5,084	100%
10e.	Providing the support you need to thrive socially	ENVSOCAL	Very little	10	24%	41	20%	81	17%	512	13%	18	38%	58	22%	155	24%	1,066	21%
		(SCE)	Some	16	38%	66	32%	163	34%	1,316	34%	17	35%	114	43%	261	41%	1,888	37%
			Quite a bit	14	33%	64	31%	153	32%	1,337	35%	8	17%	67	25%	160	25%	1,494	29%
			Very much	2	5%	37	18%	80	17%	676	18%	5	10%	27	10%	67	10%	620	12%
			Total	42	100%	208	100%	477	100%	3,841	100%	48	100%	266	100%	643	100%	5,068	100%
10f.	Attending campus events and activities (special speakers, cultural performances, athletic events, etc.)	ENVEVENT	Very little	5	12%	14	7%	32	7%	226	6%	10	21%	35	13%	78	12%	514	10%
			Some	10	24%	67	32%	139	29%	858	22%	15	31%	80	30%	191	30%	1,443	28%
			Quite a bit	19	45%	76	36%	179	37%	1,533	40%	17	35%	104	39%	238	37%	1,905	38%
			Very much	8	19%	52	25%	129	27%	1,226	32%	6	13%	47	18%	135	21%	1,217	24%
			Total	42	100%	209	100%	479	100%	3,843	100%	48	100%	266	100%	642	100%	5,079	100%
10g.	Using computers in academic work	ENVCOMPT	Very little	1	2%	3	1%	7	1%	78	2%	1	2%	8	3%	21	3%	109	2%
			Some	7	17%	42	20%	75	16%	570	15%	5	10%	19	7%	73	11%	616	12%
			Quite a bit	12	29%	58	28%	151	32%	1,365	35%	10	21%	93	35%	212	33%	1,696	33%
			Very much	22	52%	106	51%	246	51%	1,843	48%	32	67%	148	55%	340	53%	2,675	52%
			Total	42	100%	209	100%	479	100%	3,856	100%	48	100%	268	100%	646	100%	5,096	100%
11a.	Acquiring a broad general education	NGENLED	Very little	3	7%	1	0%	8	2%	80	2%	3	6%	11	4%	30	5%	168	3%
			Some	12	29%	41	20%	75	16%	548	14%	12	25%	57	21%	126	20%	763	15%
			Quite a bit	13	31%	91	44%	216	45%	1,609	42%	15	31%	93	35%	236	37%	1,881	37%
			Very much	14	33%	76	36%	180	38%	1,618	42%	18	38%	108	40%	252	39%	2,278	45%
			Total	42	100%	209	100%	479	100%	3,855	100%	48	100%	269	100%	644	100%	5,090	100%
11b.	Acquiring job or work-related knowledge and skills	GNWORK	Very little	6	14%	20	10%	41	9%	337	9%	7	15%	22	8%	55	9%	316	6%
			Some	16	38%	60	29%	134	28%	1,040	27%	7	15%	65	24%	162	25%	1,139	22%
			Quite a bit	15	36%	81	39%	187	39%	1,438	37%	11	23%	88	33%	210	33%	1,749	34%
			Very much	5	12%	49	23%	116	24%	1,027	27%	23	48%	95	35%	216	34%	1,879	37%
			Total	42	100%	210	100%	478	100%	3,842	100%	48	100%	270	100%	643	100%	5,083	100%

NSSE 2012 Major Field Report: Part II. Comparisons to Other Institutions
Frequency Distributions-Physical Sciences
The University of Arizona

			First-Year Students								Seniors							
			Arizona		AAUDE		Carnegie Class		NSSE 2012		Arizona		AAUDE		Carnegie Class		NSSE 2012	
Variable	Response Options		Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%
11c. Writing clearly and effectively	GNWRITE	Very little	3	7%	21	10%	44	9%	236	6%	4	8%	20	7%	53	8%	285	6%
		Some	11	26%	51	24%	123	26%	859	22%	8	17%	77	29%	168	26%	1,184	23%
		Quite a bit	14	33%	84	40%	187	39%	1,540	40%	21	44%	106	40%	246	38%	1,991	39%
		Very much	14	33%	54	26%	126	26%	1,218	32%	15	31%	65	24%	176	27%	1,626	32%
	Total		42	100%	210	100%	480	100%	3,853	100%	48	100%	268	100%	643	100%	5,086	100%
11d. Speaking clearly and effectively	GNSPEAK	Very little	11	27%	33	16%	77	16%	400	10%	8	17%	28	10%	79	12%	381	8%
		Some	14	34%	74	35%	145	30%	1,117	29%	10	21%	88	33%	200	31%	1,306	26%
		Quite a bit	8	20%	67	32%	158	33%	1,328	35%	16	34%	97	36%	206	32%	1,876	37%
		Very much	8	20%	36	17%	100	21%	995	26%	13	28%	57	21%	157	24%	1,505	30%
	Total		41	100%	210	100%	480	100%	3,840	100%	47	100%	270	100%	642	100%	5,068	100%
11e. Thinking critically and analytically	GNANALY	Very little	4	10%	6	3%	11	2%	82	2%	2	4%	5	2%	14	2%	83	2%
		Some	4	10%	28	13%	64	13%	482	13%	3	6%	24	9%	66	10%	440	9%
		Quite a bit	10	24%	85	40%	191	40%	1,401	36%	13	27%	87	32%	202	31%	1,537	30%
		Very much	23	56%	91	43%	214	45%	1,883	49%	30	63%	154	57%	363	56%	3,013	59%
	Total		41	100%	210	100%	480	100%	3,848	100%	48	100%	270	100%	645	100%	5,073	100%
11f. Analyzing quantitative problems	GNQUANT	Very little	5	12%	4	2%	12	3%	85	2%	2	4%	4	1%	9	1%	74	1%
		Some	8	19%	29	14%	70	15%	519	14%	0	0%	21	8%	51	8%	346	7%
		Quite a bit	13	31%	85	40%	189	40%	1,436	37%	15	31%	80	30%	199	31%	1,473	29%
		Very much	16	38%	92	44%	206	43%	1,792	47%	31	65%	165	61%	385	60%	3,166	63%
	Total		42	100%	210	100%	477	100%	3,832	100%	48	100%	270	100%	644	100%	5,059	100%
11g. Using computing and information technology	GNCMPTS	Very little	6	14%	15	7%	28	6%	203	5%	1	2%	8	3%	29	5%	145	3%
		Some	7	17%	44	21%	102	21%	866	23%	8	17%	44	16%	110	17%	779	15%
		Quite a bit	10	24%	77	37%	173	36%	1,424	37%	9	19%	89	33%	210	33%	1,794	35%
		Very much	19	45%	72	35%	173	36%	1,353	35%	29	62%	127	47%	293	46%	2,367	47%
	Total		42	100%	208	100%	476	100%	3,846	100%	47	100%	268	100%	642	100%	5,085	100%
11h. Working effectively with others	GNOTHERS	Very little	7	17%	16	8%	42	9%	226	6%	4	8%	17	6%	44	7%	215	4%
		Some	14	33%	56	27%	123	26%	897	23%	15	31%	69	26%	178	28%	1,086	21%
		Quite a bit	13	31%	87	42%	190	40%	1,518	39%	11	23%	104	39%	233	36%	1,928	38%
		Very much	8	19%	50	24%	124	26%	1,212	31%	18	38%	79	29%	188	29%	1,852	36%
	Total		42	100%	209	100%	479	100%	3,853	100%	48	100%	269	100%	643	100%	5,081	100%
11i. Voting in local, state, or national elections	GNCITIZN	Very little	26	62%	104	51%	235	50%	1,971	52%	29	60%	128	48%	301	47%	2,385	47%
		Some	11	26%	53	26%	125	27%	1,039	27%	9	19%	80	30%	203	32%	1,556	31%
		Quite a bit	4	10%	36	18%	72	15%	550	14%	6	13%	37	14%	92	14%	718	14%
		Very much	1	2%	12	6%	39	8%	261	7%	4	8%	22	8%	44	7%	383	8%
	Total		42	100%	205	100%	471	100%	3,821	100%	48	100%	267	100%	640	100%	5,042	100%

NSSE 2012 Major Field Report: Part II. Comparisons to Other Institutions
Frequency Distributions-Physical Sciences
The University of Arizona

			First-Year Students								Seniors							
			Arizona		AAUDE		Carnegie Class		NSSE 2012		Arizona		AAUDE		Carnegie Class		NSSE 2012	
Item	Variable	Response Options	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%
11j. Learning effectively on your own	GNINQ	Very little	3	7%	13	6%	26	6%	207	5%	4	9%	9	3%	29	5%	253	5%
		Some	13	31%	56	27%	118	25%	849	22%	6	13%	44	16%	112	18%	859	17%
		Quite a bit	17	40%	73	35%	193	41%	1,638	43%	17	36%	117	44%	265	42%	2,040	41%
		Very much	9	21%	64	31%	134	28%	1,124	29%	20	43%	97	36%	232	36%	1,883	37%
	Total	42	100%	206	100%	471	100%	3,818	100%	47	100%	267	100%	638	100%	5,035	100%	
11k. Understanding yourself	GNSELF	Very little	4	10%	29	14%	65	14%	419	11%	10	21%	28	10%	94	15%	590	12%
		Some	13	32%	50	24%	133	28%	1,040	27%	12	26%	63	24%	163	26%	1,271	25%
		Quite a bit	18	44%	83	40%	163	35%	1,326	35%	8	17%	100	37%	209	33%	1,683	33%
		Very much	6	15%	44	21%	107	23%	1,020	27%	17	36%	76	28%	170	27%	1,485	30%
	Total	41	100%	206	100%	468	100%	3,805	100%	47	100%	267	100%	636	100%	5,029	100%	
11l. Understanding people of other racial and ethnic backgrounds	GNDIVERS	Very little	9	21%	22	11%	76	16%	568	15%	11	23%	36	14%	120	19%	938	19%
		Some	19	45%	71	34%	140	30%	1,210	32%	18	38%	86	32%	211	33%	1,723	34%
		Quite a bit	10	24%	69	33%	157	33%	1,264	33%	12	25%	89	33%	175	27%	1,464	29%
		Very much	4	10%	44	21%	99	21%	767	20%	7	15%	55	21%	132	21%	908	18%
	Total	42	100%	206	100%	472	100%	3,809	100%	48	100%	266	100%	638	100%	5,033	100%	
11m. Solving complex real-world problems	GNPROBSV	Very little	9	21%	16	8%	42	9%	368	10%	6	13%	16	6%	63	10%	433	9%
		Some	13	31%	66	32%	149	32%	1,145	30%	10	21%	69	26%	176	28%	1,269	25%
		Quite a bit	10	24%	84	41%	188	40%	1,457	38%	13	27%	102	38%	235	37%	1,803	36%
		Very much	10	24%	39	19%	93	20%	846	22%	19	40%	79	30%	162	25%	1,527	30%
	Total	42	100%	205	100%	472	100%	3,816	100%	48	100%	266	100%	636	100%	5,032	100%	
11n. Developing a personal code of values and ethics	GNETHICS	Very little	9	22%	41	20%	84	18%	553	14%	17	35%	48	18%	139	22%	858	17%
		Some	13	32%	58	28%	130	28%	1,009	26%	12	25%	82	31%	200	31%	1,441	29%
		Quite a bit	12	29%	72	35%	156	33%	1,305	34%	8	17%	77	29%	172	27%	1,440	29%
		Very much	7	17%	34	17%	102	22%	950	25%	11	23%	59	22%	128	20%	1,301	26%
	Total	41	100%	205	100%	472	100%	3,817	100%	48	100%	266	100%	639	100%	5,040	100%	
11o. Contributing to the welfare of your community	GNCOMMUN	Very little	13	31%	47	23%	103	22%	686	18%	13	27%	70	26%	176	28%	1,080	21%
		Some	16	38%	71	35%	150	32%	1,246	33%	14	29%	91	34%	219	34%	1,708	34%
		Quite a bit	10	24%	60	29%	143	30%	1,170	31%	15	31%	73	27%	159	25%	1,343	27%
		Very much	3	7%	27	13%	75	16%	711	19%	6	13%	32	12%	85	13%	904	18%
	Total	42	100%	205	100%	471	100%	3,813	100%	48	100%	266	100%	639	100%	5,035	100%	
11p. Developing a deepened sense of spirituality	GNSPIRIT	Very little	25	61%	111	54%	237	51%	1,604	42%	34	71%	165	62%	394	62%	2,575	51%
		Some	8	20%	52	25%	121	26%	995	26%	6	13%	50	19%	112	18%	1,107	22%
		Quite a bit	4	10%	28	14%	68	14%	690	18%	2	4%	28	10%	73	11%	659	13%
		Very much	4	10%	14	7%	43	9%	522	14%	6	13%	24	9%	58	9%	689	14%
	Total	41	100%	205	100%	469	100%	3,811	100%	48	100%	267	100%	637	100%	5,030	100%	

NSSE 2012 Major Field Report: Part II. Comparisons to Other Institutions
Frequency Distributions-Physical Sciences
The University of Arizona

First-Year Students

Seniors

	Variable	Response Options	Arizona		AAUDE		Carnegie Class		NSSE 2012		Arizona		AAUDE		Carnegie Class		NSSE 2012	
			Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%
12. Overall, how would you evaluate the quality of academic advising you have received at your institution?	ADVISE	Poor	3	7%	14	7%	28	6%	141	4%	6	13%	24	9%	62	10%	353	7%
		Fair	5	12%	31	15%	86	18%	526	14%	11	23%	68	25%	148	23%	862	17%
		Good	23	55%	104	50%	212	44%	1,750	45%	10	21%	104	39%	240	37%	1,850	36%
		Excellent	11	26%	61	29%	154	32%	1,449	37%	21	44%	74	27%	198	31%	2,043	40%
	Total	42	100%	210	100%	480	100%	3,866	100%	48	100%	270	100%	648	100%	5,108	100%	
13. How would you evaluate your entire educational experience at this institution?	ENTIREXP	Poor	1	2%	6	3%	9	2%	70	2%	1	2%	7	3%	23	4%	126	2%
		Fair	8	19%	20	10%	51	11%	335	9%	6	13%	25	9%	73	11%	550	11%
		Good	20	48%	97	46%	222	46%	1,756	46%	22	46%	126	47%	299	46%	2,174	43%
		Excellent	13	31%	87	41%	197	41%	1,694	44%	19	40%	112	41%	253	39%	2,256	44%
	Total	42	100%	210	100%	479	100%	3,855	100%	48	100%	270	100%	648	100%	5,106	100%	
14. If you could start over again, would you go to the <i>same</i> institution you are now attending?	SAMECOLL	Definitely no	2	5%	7	3%	13	3%	137	4%	1	2%	13	5%	34	5%	294	6%
		Probably no	6	14%	19	9%	39	8%	395	10%	4	8%	37	14%	92	14%	627	12%
		Probably yes	17	40%	78	37%	181	38%	1,489	39%	20	42%	96	36%	227	35%	1,842	36%
		Definitely yes	17	40%	106	50%	247	51%	1,846	48%	23	48%	124	46%	295	46%	2,351	46%
	Total	42	100%	210	100%	480	100%	3,867	100%	48	100%	270	100%	648	100%	5,114	100%	



NSSE 2012 Major Field Report: Part II. Comparisons to Other Institutions
Frequency Distributions-Physical Sciences
The University of Arizona

			First-Year Students					Seniors										
Question	Variable	Response Options	Arizona		AAUDE		Carnegie Class		NSSE 2012		Arizona		AAUDE		Carnegie Class		NSSE 2012	
			Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%
15. Age	AGE	19 or younger	37	88%	196	93%	433	90%	3,499	91%	2	4%	3	1%	8	1%	35	1%
		20-23	5	12%	12	6%	38	8%	237	6%	30	63%	234	86%	487	75%	3,816	75%
		24-29	0	0%	1	0%	6	1%	51	1%	10	21%	26	10%	100	15%	700	14%
		30-39	0	0%	1	0%	3	1%	50	1%	3	6%	7	3%	39	6%	335	7%
		40-55	0	0%	0	0%	0	0%	17	0%	2	4%	2	1%	12	2%	196	4%
		Over 55	0	0%	0	0%	0	0%	6	0%	1	2%	0	0%	3	0%	28	1%
	Total	42	100%	210	100%	480	100%	3,860	100%	48	100%	272	100%	649	100%	5,110	100%	
16. Your sex:	SEX	Male	22	52%	108	51%	233	48%	1,819	47%	18	38%	168	62%	364	56%	2,576	51%
		Female	20	48%	102	49%	248	52%	2,047	53%	30	63%	104	38%	286	44%	2,522	49%
	Total	42	100%	210	100%	481	100%	3,866	100%	48	100%	272	100%	650	100%	5,098	100%	
17. Are you an international student or foreign national?	INTERNAT	No	35	85%	170	81%	425	89%	3,534	92%	43	90%	243	90%	599	92%	4,798	94%
		Yes	6	15%	39	19%	54	11%	316	8%	5	10%	27	10%	50	8%	299	6%
	Total	41	100%	209	100%	479	100%	3,850	100%	48	100%	270	100%	649	100%	5,097	100%	
18. What is your racial or ethnic identification? (Select only one.)	RACE05	American Indian or other Native American	0	0%	2	1%	5	1%	37	1%	1	2%	0	0%	4	1%	32	1%
		Asian, Asian American, or Pacific Islander	5	12%	54	26%	82	17%	368	10%	5	10%	47	17%	90	14%	354	7%
		Black or African American	2	5%	8	4%	27	6%	271	7%	0	0%	5	2%	25	4%	271	5%
		White (non-Hispanic)	23	55%	117	56%	296	62%	2,566	66%	32	67%	179	66%	424	65%	3,627	71%
		Mexican or Mexican American	5	12%	4	2%	11	2%	100	3%	2	4%	5	2%	13	2%	123	2%
		Puerto Rican	0	0%	1	0%	2	0%	23	1%	0	0%	4	1%	3	0%	30	1%
		Other Hispanic or Latino	2	5%	4	2%	8	2%	109	3%	1	2%	2	1%	13	2%	124	2%
		Multiracial	3	7%	11	5%	20	4%	127	3%	3	6%	9	3%	24	4%	128	3%
		Other	1	2%	1	0%	7	1%	59	2%	1	2%	3	1%	9	1%	74	1%
		I prefer not to respond	1	2%	8	4%	23	5%	207	5%	3	6%	18	7%	45	7%	349	7%
		Total	42	100%	210	100%	481	100%	3,867	100%	48	100%	272	100%	650	100%	5,112	100%
19. What is your current classification in college?	CLASS	Freshman/first year	36	86%	189	91%	410	86%	3,424	88%	0	0%	1	0%	1	0%	6	0%
		Sophomore	6	14%	15	7%	61	13%	378	10%	0	0%	2	1%	4	1%	32	1%
		Junior	0	0%	4	2%	6	1%	30	1%	6	13%	34	13%	73	11%	418	8%
		Senior	0	0%	0	0%	1	0%	17	0%	39	85%	231	85%	557	86%	4,544	89%
		Unclassified	0	0%	0	0%	1	0%	21	1%	1	2%	4	1%	15	2%	109	2%
		Total	42	100%	208	100%	479	100%	3,870	100%	46	100%	272	100%	650	100%	5,109	100%
20. Did you begin college at your current institution or elsewhere?	ENTER	Started here	38	90%	202	97%	455	95%	3,628	94%	30	64%	198	73%	427	66%	3,484	68%
		Started elsewhere	4	10%	7	3%	25	5%	242	6%	17	36%	75	27%	224	34%	1,628	32%
	Total	42	100%	209	100%	480	100%	3,870	100%	47	100%	273	100%	651	100%	5,112	100%	

NSSE 2012 Major Field Report: Part II. Comparisons to Other Institutions
Frequency Distributions-Physical Sciences
The University of Arizona

			First-Year Students								Seniors							
			Arizona		AAUDE		Carnegie Class		NSSE 2012		Arizona		AAUDE		Carnegie Class		NSSE 2012	
Variable	Response Options		Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%
21. Since graduating from high school, which of the following types of schools have you attended other than the one you are attending now? (Select all that apply.)	VOTECH05	Vocational or technical school	0	0%	2	1%	6	1%	72	2%	2	4%	4	1%	29	5%	199	4%
	COMCOL05	Community or junior college	2	5%	7	3%	24	5%	228	6%	20	43%	75	28%	202	31%	1,426	28%
	FOURYR05	4-year college other than this one	3	8%	17	8%	36	8%	228	6%	10	21%	50	19%	150	23%	1,120	22%
	NONE05	None	34	85%	181	87%	400	84%	3,291	86%	23	49%	163	61%	332	52%	2,831	56%
	OCOL1_05	Other	1	3%	5	2%	15	3%	93	2%	2	4%	9	3%	36	6%	194	4%
- Are you a current or former member of the U.S. Armed Forces, Reserves, or National Guard? (Item appeared only in the online instrument.)	VETERAN	No	41	98%	207	100%	474	99%	3,799	99%	45	94%	264	97%	604	95%	4,750	96%
		Yes	1	2%	1	0%	3	1%	47	1%	3	6%	9	3%	35	5%	223	4%
	Total	42	100%	208	100%	477	100%	3,846	100%	48	100%	273	100%	639	100%	4,973	100%	
- If yes: As part of your military experience, did you receive combat pay, hostile fire pay, or imminent danger pay? (Item appeared only in the online instrument.)	VETPAY	No	1	100%	1	100%	3	100%	30	64%	1	33%	6	67%	21	60%	121	55%
		Yes	0	0%	0	0%	0	0%	17	36%	2	67%	3	33%	14	40%	101	45%
	Total	1	100%	1	100%	3	100%	47	100%	3	100%	9	100%	35	100%	222	100%	
22. Thinking about this current academic term...How would you characterize your enrollment?	ENRLMENT	Less than full-time	0	0%	8	4%	11	2%	73	2%	5	10%	19	7%	72	11%	545	11%
		Full-time	42	100%	202	96%	469	98%	3,798	98%	43	90%	254	93%	579	89%	4,568	89%
	Total	42	100%	210	100%	480	100%	3,871	100%	48	100%	273	100%	651	100%	5,113	100%	
- Thinking about this current academic term...Are you taking all courses entirely online? (Item appeared only in the online instrument.)	DISTED	No	41	98%	208	100%	475	99%	3,801	99%	48	100%	273	100%	624	98%	4,862	98%
		Yes	1	2%	1	0%	4	1%	47	1%	0	0%	0	0%	16	3%	106	2%
	Total	42	100%	209	100%	479	100%	3,848	100%	48	100%	273	100%	640	100%	4,968	100%	

NSSE 2012 Major Field Report: Part II. Comparisons to Other Institutions
Frequency Distributions-Physical Sciences
The University of Arizona

			First-Year Students						Seniors										
			Arizona		AAUDE		Carnegie Class		NSSE 2012		Arizona		AAUDE		Carnegie Class		NSSE 2012		
	Variable	Response Options	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	
-	Do you have any disabilities? (Select all that apply.) (Item appeared only in the online instrument and was preceded by the statement "Your institution will not receive your identified response to the following question. Only an overall summary of responses will be provided." Accordingly, this item does not appear in the NSSE data file or codebook.)	DISNONE	No, I do not have any disabilities	36	88%	191	92%	424	89%	3,217	85%	40	85%	239	89%	532	84%	4,197	85%
		DISSENSE	Yes, I have a sensory impairment (vision or hearing)	1	2%	3	1%	10	2%	136	4%	0	0%	4	1%	13	2%	108	2%
		DISMOBIL	Yes, I have a mobility impairment	0	0%	1	0%	3	1%	31	1%	0	0%	2	1%	3	0%	33	1%
		DISLEARN	Yes, I have a learning disability	0	0%	1	0%	5	1%	69	2%	2	4%	3	1%	11	2%	97	2%
		DISDEVLP	Yes, I have a developmental disorder (ADHD, Autism spectrum disorder, etc.)	1	2%	2	1%	13	3%	130	3%	0	0%	10	4%	31	5%	160	3%
		DISMENT	Yes, I have a mental health disorder	1	2%	4	2%	8	2%	86	2%	2	4%	10	4%	18	3%	117	2%
		DISMED	Yes, I have a medical disability not listed above	0	0%	1	0%	2	0%	43	1%	1	2%	1	0%	6	1%	50	1%
		DISOTHER	Yes, I have another disability	3	7%	9	4%	34	7%	380	10%	6	13%	24	9%	67	11%	440	9%
		DISREFUS	I choose not to answer	2	5%	7	3%	14	3%	176	5%	1	2%	7	3%	31	5%	242	5%
23.	Are you member of a social fraternity or sorority?	FRATSORO	No	42	100%	190	90%	428	89%	3,525	91%	44	94%	245	90%	585	90%	4,551	89%
			Yes	0	0%	20	10%	53	11%	348	9%	3	6%	28	10%	66	10%	562	11%
			Total	42	100%	210	100%	481	100%	3,873	100%	47	100%	273	100%	651	100%	5,113	100%
24.	Are you a student-athlete on a team sponsored by your institution's athletics department?	ATHLETE	No	42	100%	197	94%	458	95%	3,367	87%	48	100%	267	98%	637	98%	4,655	91%
			Yes	0	0%	13	6%	22	5%	501	13%	0	0%	6	2%	14	2%	454	9%
			Total	42	100%	210	100%	480	100%	3,868	100%	48	100%	273	100%	651	100%	5,109	100%

NSSE 2012 Major Field Report: Part II. Comparisons to Other Institutions
Frequency Distributions-Physical Sciences
The University of Arizona

			First-Year Students					Seniors										
Question	Variable	Response Options	Arizona		AAUDE		Carnegie Class		NSSE 2012		Arizona		AAUDE		Carnegie Class		NSSE 2012	
			Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%
25. What have most of your grades been up to now at this institution?	GRADES04	C- or lower	3	7%	1	0%	8	2%	53	1%	1	2%	0	0%	2	0%	12	0%
		C	1	2%	10	5%	21	4%	89	2%	3	6%	6	2%	23	4%	102	2%
		C+	1	2%	6	3%	23	5%	124	3%	2	4%	11	4%	27	4%	212	4%
		B-	3	7%	10	5%	31	6%	197	5%	3	6%	15	5%	45	7%	345	7%
		B	10	24%	24	12%	59	12%	608	16%	11	23%	45	16%	104	16%	839	16%
		B+	8	19%	42	20%	90	19%	685	18%	2	4%	52	19%	115	18%	928	18%
		A-	4	10%	49	24%	88	18%	807	21%	9	19%	52	19%	111	17%	1,058	21%
		A	12	29%	66	32%	159	33%	1,309	34%	17	35%	92	34%	223	34%	1,624	32%
Total		42	100%	208	100%	479	100%	3,872	100%	48	100%	273	100%	650	100%	5,120	100%	
26. Which of the following best describes where you are living now while attending college?	LIVENOW	Dormitory or other campus housing	25	60%	171	81%	357	75%	2,857	74%	1	2%	50	18%	102	16%	1,218	24%
		Residence, walking distance	7	17%	25	12%	37	8%	247	6%	22	46%	136	50%	248	38%	1,506	29%
		Residence, driving distance	10	24%	11	5%	73	15%	672	17%	25	52%	78	29%	270	41%	2,117	41%
		Fraternity/sorority house	0	0%	0	0%	3	1%	15	0%	0	0%	6	2%	8	1%	84	2%
		None of the above	0	0%	3	1%	7	1%	65	2%	0	0%	3	1%	24	4%	189	4%
Total		42	100%	210	100%	477	100%	3,856	100%	48	100%	273	100%	652	100%	5,114	100%	
27a. What is the highest level of education that your father completed?	FATHREDU	Did not finish HS	4	10%	5	2%	17	4%	248	6%	3	7%	11	4%	38	6%	333	7%
		Graduated from HS	2	5%	28	14%	74	16%	788	21%	7	15%	45	16%	104	16%	1,031	20%
		Attended, no degree	6	15%	20	10%	62	13%	480	12%	7	15%	28	10%	70	11%	606	12%
		Completed Associate's	3	7%	15	7%	34	7%	333	9%	6	13%	14	5%	32	5%	400	8%
		Completed Bachelor's	14	34%	70	34%	150	32%	1,105	29%	11	24%	78	29%	194	30%	1,421	28%
		Completed Master's	7	17%	47	23%	84	18%	543	14%	8	17%	49	18%	111	17%	782	15%
		Completed Doctorate	5	12%	20	10%	54	11%	344	9%	4	9%	48	18%	100	15%	521	10%
Total		41	100%	205	100%	475	100%	3,841	100%	46	100%	273	100%	649	100%	5,094	100%	
27b. What is the highest level of education that your mother completed?	MOTHREDU	Did not finish HS	3	7%	8	4%	23	5%	210	5%	3	6%	5	2%	30	5%	286	6%
		Graduated from HS	4	10%	22	11%	46	10%	626	16%	8	17%	43	16%	99	15%	985	19%
		Attended, no degree	8	19%	24	12%	66	14%	531	14%	5	11%	33	12%	77	12%	691	14%
		Completed Associate's	3	7%	24	12%	51	11%	465	12%	3	6%	37	14%	80	12%	615	12%
		Completed Bachelor's	12	29%	77	37%	175	37%	1,218	32%	18	38%	100	37%	219	34%	1,491	29%
		Completed Master's	9	21%	41	20%	91	19%	635	16%	6	13%	46	17%	119	18%	843	16%
		Completed Doctorate	3	7%	11	5%	24	5%	168	4%	4	9%	9	3%	27	4%	199	4%
Total		42	100%	207	100%	476	100%	3,853	100%	47	100%	273	100%	651	100%	5,110	100%	

NSSE 2012 Major Field Report: Part II. Comparisons to Other Institutions
Frequency Distributions-Physical Sciences
The University of Arizona

			First-Year Students						Seniors									
			Arizona		AAUDE		Carnegie Class		NSSE 2012		Arizona		AAUDE		Carnegie Class		NSSE 2012	
Variable	Response Options		Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%
28. Primary major or expected primary major, in collapsed categories	MAJRPCOL	Arts and Humanities	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
		Biological Sciences	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
		Business	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
		Education	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
		Engineering	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
		Physical Sciences	42	100%	210	100%	481	100%	3,879	100%	48	100%	273	100%	652	100%	5,128	100%
		Professional (other)	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
		Social Sciences	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
		Other	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
Undecided	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%		
		Total	42	100%	210	100%	481	100%	3,879	100%	48	100%	273	100%	652	100%	5,128	100%
29. Second major or expected second major (not minor, concentration, etc.) if applicable, in collapsed categories	MAJRSCOL	Arts and Humanities	2	13%	18	23%	27	17%	193	14%	1	6%	17	18%	32	15%	224	15%
		Biological Sciences	1	6%	5	6%	21	14%	202	15%	0	0%	9	10%	27	13%	209	14%
		Business	3	19%	6	8%	10	6%	81	6%	0	0%	3	3%	5	2%	66	4%
		Education	0	0%	3	4%	7	5%	140	10%	0	0%	7	8%	16	8%	219	15%
		Engineering	1	6%	3	4%	8	5%	77	6%	1	6%	1	1%	4	2%	47	3%
		Physical Sciences	8	50%	17	22%	35	23%	276	21%	10	63%	24	26%	59	29%	358	24%
		Professional (other)	0	0%	4	5%	10	6%	67	5%	1	6%	0	0%	2	1%	35	2%
		Social Sciences	1	6%	11	14%	14	9%	128	10%	1	6%	23	25%	45	22%	183	12%
		Other	0	0%	11	14%	20	13%	164	12%	2	13%	9	10%	17	8%	138	9%
Undecided	0	0%	1	1%	3	2%	14	1%	0	0%	0	0%	0	0%	12	1%		
		Total	16	100%	79	100%	155	100%	1,342	100%	16	100%	93	100%	207	100%	1,491	100%
- Institution reported: Gender	GENDER	Male	22	52%	108	51%	234	49%	1,821	47%	18	38%	169	62%	366	56%	2,595	51%
		Female	20	48%	102	49%	247	51%	2,058	53%	30	63%	104	38%	286	44%	2,532	49%
		Total	42	100%	210	100%	481	100%	3,879	100%	48	100%	273	100%	652	100%	5,127	100%
- Institution reported: Race or ethnicity	ETHNICIT	African American/Black	2	5%	8	4%	25	5%	242	7%	1	2%	7	3%	28	4%	257	5%
		Am. Indian/Native Amer.	1	2%	0	0%	1	0%	25	1%	1	2%	0	0%	2	0%	26	1%
		Asian/Pacific Islander	2	5%	23	11%	38	8%	207	6%	5	10%	28	10%	57	9%	251	5%
		Caucasian/White	22	52%	116	55%	300	62%	2,398	67%	32	67%	185	68%	444	69%	3,445	73%
		Hispanic	9	21%	10	5%	26	5%	247	7%	4	8%	14	5%	39	6%	291	6%
		Other	0	0%	0	0%	0	0%	10	0%	0	0%	0	0%	1	0%	19	0%
		Foreign	6	14%	34	16%	46	10%	186	5%	5	10%	16	6%	30	5%	135	3%
		Multi-racial	0	0%	11	5%	24	5%	98	3%	0	0%	5	2%	11	2%	65	1%
		Unknown	0	0%	8	4%	21	4%	146	4%	0	0%	18	7%	30	5%	203	4%
		Total	42	100%	210	100%	481	100%	3,559	100%	48	100%	273	100%	642	100%	4,692	100%
- Institution reported: Enrollment status	ENROLLMT	Part-time	0	0%	2	1%	13	3%	96	2%	19	40%	18	7%	83	13%	561	11%
		Full-time	42	100%	208	99%	468	97%	3,783	98%	29	60%	255	93%	569	87%	4,567	89%
		Total	42	100%	210	100%	481	100%	3,879	100%	48	100%	273	100%	652	100%	5,128	100%



Benchmark Statistics

Physical Sciences

The University of Arizona

NSSE 2012 Major Field Report

Part II. Comparisons to Other Institutions



NSSE 2012 Major Field Report: Part II. Comparisons to Other Institutions

Interpreting the Benchmark Statistics

Benchmarks

To focus discussions about the importance of student engagement and to guide institutional improvement efforts, NSSE created five Benchmarks of Effective Educational Practice: Level of Academic Challenge, Active and Collaborative Learning, Student-Faculty Interaction, Enriching Educational Experiences, and Supportive Campus Environment.

Class

Benchmark comparisons are given separately by institution-reported class level. Of course, first-year student majors may be unstable, and their results should be interpreted with caution.

Major Categories

Self-reported majors (primary major if two were reported) were identified from the survey. Institutions had the option to customize how these were grouped, using up to eight related-major categories.

Major categories with fewer than twenty respondents in a given class are not reported. Comparison groups must contain at least three institutions with five or more respondents in the major category, or they remain blank.

Sample

This report is based on information from all randomly selected or census-administered Physical Sciences students for both your institution and your comparison institutions. Targeted and locally administered oversamples and other non-randomly selected students are not included.

BETWEEN Institution Comparisons on Major Categories

NSSE data serve to identify institutional strengths and weaknesses in reference to selected comparison institutions, yet institution-level comparisons may not capture important variation in student engagement that can be found within key sub-populations such as major. This report displays the benchmark comparisons for the Physical Sciences major category at your institution and at your selected comparison institutions.

Mean

The mean is the arithmetic average of the students' benchmark scores where students answered at least 3/5ths of the benchmark items.

Weighting

All results displayed in this report are unweighted.

Distribution Statistics

The dispersion of the first-year and senior benchmark scores for your institution and your selected comparison or consortium groups.

	Mean Statistics			Distribution Statistics					Reference Group Comparison Statistics			
	Mean	S.D. ^b	SEM ^c	Percentiles ^d					Deg. of Freedom ^e	Mean Diff.	Sig. ^f	Effect size ^g
	5th	25th	50th	75th	95th							
LEVEL OF ACADEMIC CHALLENGE (LAC)												
NSSEville State (N = 107)	58.0	13.1	1.3	38	50	58	67	79				
Mid East Private	57.5	12.6	.3	36	50	58	66	77	2,170	.5	.698	.04
Carnegie Class	54.1	12.8	.2	33	45	54	63	75	5,416	4.0	.002	.31
NSSE 2012	55.3	13.0	.1	33	47	56	65	76	20,953	2.8	.029	.21
ACTIVE AND COLLABORATIVE LEARNING (ACL)												
NSSEville State (N = 107)	47.2	13.4	1.3	29	38	48	57	71				
Mid East Private	46.1	15.5	.3	24	33	44	57	71	2,174	1.1	.464	.07
Carnegie Class	44.5	15.8	.2	19	33	43	52	71	5,414	2.8	.071	.18
NSSE 2012	44.4	15.5	.1	19	33	43	52	71	20,956	2.8	.059	.18

Statistical Significance

Statistical significance is reported as the probability that the difference is due to chance variation. Values lower than .05 meet the conventional standard for significance. The smaller the significance level, the smaller the likelihood that the difference is due to chance. Please note that statistical significance does not guarantee that the result is substantive or important. Large sample sizes (as with the NSSE project) tend to produce more statistically significant results even though the magnitude of mean differences may be inconsequential. It is recommended to consult effect sizes to judge the practical meaning of the results.

Effect Size

Effect size indicates the practical significance of the mean difference. It is calculated by dividing the mean difference by the pooled standard deviation. In practice, an effect size of .2 is often considered small, .5 moderate, and .8 large. A positive sign indicates that your institution's mean was greater, thus showing an affirmative result for the institution. A negative sign indicates the institution lags behind the comparison group, suggesting that the student behavior or institutional practice represented by the item may warrant attention.

The University of Arizona

Benchmark Statistics: Physical Sciences

First-Year Students

	Mean Statistics			Distribution Statistics					Reference Group Comparison Statistics			
	Mean	SD ^b	SEM ^c	Percentiles ^d					Deg. of Freedom ^e	Mean Diff.	Sig. ^f	Effect size ^g
				5th	25th	50th	75th	95th				
LEVEL OF ACADEMIC CHALLENGE (LAC)												
Arizona (N = 42)	51.0	11.8	1.8	31	48	51	57	70				
AAUDE	54.9	12.3	.9	34	47	55	63	76	249	-3.9	.059	-.32
Carnegie Class	54.5	12.7	.6	32	46	55	63	75	520	-3.5	.086	-.28
NSSE 2012	55.7	12.9	.2	34	47	56	65	76	3,915	-4.7	.018	-.37
ACTIVE AND COLLABORATIVE LEARNING (ACL)												
Arizona (N = 42)	38.8	16.5	2.5	14	29	36	52	62				
AAUDE	43.5	16.8	1.2	19	33	43	52	71	250	-4.7	.102	-.28
Carnegie Class	42.8	16.6	.8	19	33	43	52	71	521	-3.9	.141	-.24
NSSE 2012	45.1	16.2	.3	19	33	43	57	71	3,915	-6.3	.012	-.39
STUDENT-FACULTY INTERACTION (SFI)												
Arizona (N = 42)	30.5	14.9	2.3	6	17	28	44	56				
AAUDE	31.4	17.4	1.2	7	17	28	39	67	250	-.9	.752	-.05
Carnegie Class	32.9	18.0	.8	11	21	28	44	67	520	-2.4	.403	-.13
NSSE 2012	36.0	18.5	.3	11	22	33	44	72	3,904	-5.5	.054	-.30
ENRICHING EDUCATIONAL EXPERIENCES (EEE)												
Arizona (N = 42)	24.1	13.4	2.1	6	14	24	35	49				
AAUDE	30.1	12.9	.9	10	21	30	38	52	250	-6.0	.006	-.46
Carnegie Class	29.8	12.9	.6	10	21	29	37	51	521	-5.7	.007	-.44
NSSE 2012	28.9	12.7	.2	10	19	28	37	51	3,912	-4.8	.016	-.38
SUPPORTIVE CAMPUS ENVIRONMENT (SCE)												
Arizona (N = 42)	52.1	16.4	2.5	33	42	53	61	75				
AAUDE	60.5	19.8	1.4	22	47	61	75	92	250	-8.4	.011	-.43
Carnegie Class	61.5	18.8	.9	28	50	61	75	92	521	-9.4	.002	-.50
NSSE 2012	64.8	17.9	.3	33	53	67	78	94	3,904	-12.7	.000	-.71

^a Major categories are based on recodes of the student-reported primary major field (majrpcod).

^b Standard deviation is a measure of the amount the individual scores deviate from the mean of all the scores in the distribution.

^c The 95% confidence interval for the population mean is equal to the sample mean plus/minus 1.96 times the standard error of the mean.

^d A percentile is the point in the distribution of student benchmark scores at or below which a given percentage of benchmark scores fall.

^e Degrees of freedom used to compute the t-tests. Values vary for the total Ns due to the equal variance assumption.

^f Statistical significance represents the probability that the difference between the mean of your institution and that of the comparison group occurred by chance.

^g Effect size is calculated by subtracting the comparison group mean from your institution's mean, and dividing the result by the pooled standard deviation.



NSSE 2012 Major Field Report: Part II. Comparisons to Other Institutions ^a

The University of Arizona

Benchmark Statistics: Physical Sciences

Seniors

	Mean Statistics			Distribution Statistics					Reference Group Comparison Statistics			
	Mean	SD ^b	SEM ^c	Percentiles ^d					Deg. of Freedom ^e	Mean Diff.	Sig. ^f	Effect size ^g
				5th	25th	50th	75th	95th				
LEVEL OF ACADEMIC CHALLENGE (LAC)												
Arizona (N = 48)	58.0	15.0	2.2	36	50	61	67	79				
AAUDE	55.3	13.1	.8	34	46	55	64	77	318	2.8	.187	.21
Carnegie Class	55.5	13.4	.5	34	47	56	65	76	697	2.5	.215	.19
NSSE 2012	57.5	13.7	.2	34	48	58	67	79	5,171	.5	.788	.04
ACTIVE AND COLLABORATIVE LEARNING (ACL)												
Arizona (N = 48)	47.0	19.3	2.8	17	33	48	57	86				
AAUDE	45.1	17.4	1.1	19	33	43	52	76	319	1.9	.499	.11
Carnegie Class	44.9	17.7	.7	19	33	43	57	76	697	2.1	.426	.12
NSSE 2012	51.9	17.6	.2	24	38	52	62	81	5,168	-4.9	.053	-.28
STUDENT-FACULTY INTERACTION (SFI)												
Arizona (N = 48)	49.1	26.7	3.9	6	28	53	67	93				
AAUDE	43.5	22.6	1.4	11	28	39	61	83	317	5.7	.120	.24
Carnegie Class	44.2	23.0	.9	11	28	44	61	83	694	4.9	.157	.21
NSSE 2012	50.6	23.0	.3	17	33	50	67	89	5,145	-1.4	.671	-.06
ENRICHING EDUCATIONAL EXPERIENCES (EEE)												
Arizona (N = 48)	45.1	18.9	2.7	8	33	46	60	72				
AAUDE	41.5	17.4	1.1	15	29	42	52	71	316	3.6	.195	.20
Carnegie Class	40.6	17.8	.7	12	28	40	52	72	695	4.5	.093	.25
NSSE 2012	42.7	18.3	.3	14	29	42	56	73	5,163	2.4	.363	.13
SUPPORTIVE CAMPUS ENVIRONMENT (SCE)												
Arizona (N = 48)	55.1	20.3	2.9	19	44	58	67	89				
AAUDE	56.9	18.9	1.2	28	44	56	69	89	315	-1.8	.553	-.09
Carnegie Class	56.5	18.9	.7	25	44	56	69	89	692	-1.4	.629	-.07
NSSE 2012	61.4	19.0	.3	31	50	61	75	92	5,154	-6.3	.023	-.33

^a Major categories are based on recodes of the student-reported primary major field (majrpcod).

^b Standard deviation is a measure of the amount the individual scores deviate from the mean of all the scores in the distribution.

^c The 95% confidence interval for the population mean is equal to the sample mean plus/minus 1.96 times the standard error of the mean.

^d A percentile is the point in the distribution of student benchmark scores at or below which a given percentage of benchmark scores fall.

^e Degrees of freedom used to compute the t-tests. Values vary for the total Ns due to the equal variance assumption.

^f Statistical significance represents the probability that the difference between the mean of your institution and that of the comparison group occurred by chance.

^g Effect size is calculated by subtracting the comparison group mean from your institution's mean, and dividing the result by the pooled standard deviation.