

NSSE 2021 Multi-Year Report

Detailed Statistics: Engagement Indicators and Additional Items

University of Houston

First-year students											Seniors										
		'13	'14	'15	'16	'17	'18	'19	'20	'21			'13	'14	'15	'16	'17	'18	'19	'20	'21
Academic Challenge																					
Higher-Order Learning	Mean	39.3	39.6	37.3	37.2	38.4	38.4	37.8	39.1	35.4		39.8	40.1	40.8	39.6	39.6	38.5	39.4	39.8	37.9	
	n	353	237	274	253	1,348	1,173	1,204	1,719	677		595	384	805	535	2,632	1,907	1,868	2,054	1,970	
	SD	14.7	14.9	14.0	14.7	13.1	13.2	13.6	13.6	13.3		15.0	14.9	15.4	14.9	13.6	14.0	14.0	13.5	14.4	
	SE	.78	.97	.84	.92	.36	.39	.39	.33	.51		.61	.76	.54	.64	.27	.32	.32	.30	.32	
	CI upper bound	40.8	41.5	39.0	39.0	39.1	39.1	38.6	39.8	36.4		41.0	41.6	41.9	40.9	40.1	39.1	40.0	40.4	38.5	
	CI lower bound	37.7	37.7	35.7	35.4	37.7	37.6	37.0	38.5	34.4		38.6	38.7	39.8	38.3	39.1	37.9	38.8	39.2	37.3	
Reflective & Integrative Learning	Mean	33.8	34.1	33.9	33.8	34.4	35.2	35.1	35.4	31.3		36.3	36.8	37.2	35.1	35.7	35.1	36.4	36.8	34.5	
	n	377	248	291	259	1,392	1,216	1,287	1,827	748		622	399	839	553	2,696	2,015	1,959	2,154	2,130	
	SD	12.2	13.3	12.4	12.6	11.6	11.8	11.6	12.0	11.8		13.8	13.2	14.2	13.4	12.4	12.4	12.6	12.5	13.1	
	SE	.63	.85	.73	.78	.31	.34	.32	.28	.43		.55	.66	.49	.57	.24	.28	.28	.27	.28	
	CI upper bound	35.1	35.7	35.3	35.4	35.0	35.8	35.7	36.0	32.1		37.4	38.1	38.1	36.2	36.2	35.6	37.0	37.3	35.0	
	CI lower bound	32.6	32.4	32.5	32.3	33.8	34.5	34.4	34.9	30.5		35.3	35.5	36.2	34.0	35.2	34.5	35.8	36.3	34.0	
Learning Strategies	Mean	37.6	36.4	37.4	34.6	38.0	37.0	37.8	38.8	35.1		39.3	38.8	40.9	38.7	38.6	36.9	38.3	38.5	37.4	
	n	324	201	237	214	1,257	1,133	1,191	1,671	630		528	355	694	469	2,390	1,848	1,838	1,990	1,842	
	SD	14.5	13.7	13.3	13.6	13.9	14.2	13.9	13.5	13.6		15.1	14.1	15.2	14.7	14.2	14.6	14.3	14.6	14.8	
	SE	.80	.97	.87	.93	.39	.42	.40	.33	.54		.66	.75	.58	.68	.29	.34	.33	.33	.34	
	CI upper bound	39.2	38.3	39.0	36.5	38.7	37.8	38.6	39.5	36.2		40.6	40.3	42.1	40.0	39.1	37.6	39.0	39.1	38.1	
	CI lower bound	36.1	34.5	35.7	32.8	37.2	36.1	37.0	38.2	34.0		38.0	37.3	39.8	37.3	38.0	36.2	37.7	37.8	36.7	
Quantitative Reasoning	Mean	26.9	28.1	26.6	27.3	28.7	28.4	29.1	29.6	27.5		31.6	29.6	31.0	29.2	30.3	29.3	30.6	30.9	29.6	
	n	358	241	283	248	1,352	1,139	1,186	1,693	634		602	390	807	533	2,602	1,865	1,849	1,997	1,870	
	SD	16.7	16.0	16.4	15.6	14.9	15.5	15.0	15.6	14.6		17.7	17.7	17.8	17.0	15.9	15.9	16.0	15.9	16.1	
	SE	.88	1.03	.98	.99	.40	.46	.44	.38	.58		.72	.90	.63	.73	.31	.37	.37	.36	.37	
	CI upper bound	28.6	30.1	28.5	29.2	29.5	29.3	29.9	30.4	28.6		33.0	31.3	32.2	30.6	31.0	30.0	31.4	31.6	30.3	
	CI lower bound	25.1	26.0	24.7	25.3	27.9	27.5	28.2	28.9	26.4		30.2	27.8	29.8	27.8	29.7	28.6	29.9	30.2	28.9	
Academic Challenge (additional items)																					
Preparing for Class (hours/week)	Mean	14.7	14.4	14.8	14.9	14.6	14.3	14.1	14.6	16.7		14.4	13.4	14.6	15.1	14.4	14.3	13.8	14.2	16.6	
	n	287	179	210	189	1,190	1,106	1,172	1,645	608		489	323	637	434	2,278	1,830	1,809	1,956	1,803	
	SD	9.1	8.9	9.0	8.6	8.2	8.2	8.2	8.1	8.9		9.2	8.7	9.2	9.1	8.9	8.8	8.8	8.7	9.3	
	SE	.54	.67	.62	.62	.24	.25	.24	.20	.36		.42	.48	.36	.44	.19	.21	.21	.20	.22	
	CI upper bound	15.8	15.7	16.0	16.1	15.1	14.7	14.6	15.0	17.4		15.3	14.4	15.3	16.0	14.8	14.7	14.2	14.6	17.0	
	CI lower bound	13.7	13.1	13.5	13.7	14.1	13.8	13.7	14.2	16.0		13.6	12.5	13.9	14.2	14.0	13.9	13.4	13.9	16.2	
Course Reading Est. hrs per wk calculated from two items. Item wording changed in 2014; comparability with '13 is limited.	Mean	6.3	6.7	7.1	6.2	6.3	5.5	5.9	6.5	7.5		6.9	6.4	7.2	7.1	6.4	6.1	6.0	6.4	7.4	
	n	284	176	208	182	1,179	1,097	1,158	1,632	600		484	321	629	432	2,258	1,821	1,795	1,940	1,788	
	SD	5.5	5.7	6.4	5.0	5.5	5.0	5.4	5.6	6.7		6.3	6.2	6.4	6.5	5.9	5.8	5.7	6.0	6.5	
	SE	.33	.43	.44	.37	.16	.15	.16	.14	.27		.29	.35	.26	.31	.12	.14	.13	.14	.15	
	CI upper bound	7.0	7.6	8.0	6.9	6.6	5.8	6.2	6.8	8.0		7.4	7.0	7.7	7.7	6.6	6.3	6.3	6.7	7.7	
	CI lower bound	5.7	5.9	6.3	5.4	6.0	5.2	5.6	6.2	7.0		6.3	5.7	6.7	6.5	6.1	5.8	5.7	6.2	7.1	

Notes: n = Number of respondents; SD = Standard deviation; SE = Standard error of the mean; upper and lower bounds represent the 95% confidence interval (mean +/- 1.96 * SE).

Academic Challenge (additional items, continued)

Assigned Writing	<i>Mean</i>	31.7	37.1	38.4	36.1	37.2	40.2	40.2	42.7	38.9		64.8	58.5	61.1	65.9	64.5	68.3	67.1	65.9	61.8
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University of Houston

First-year students											Seniors									
		'13	'14	'15	'16	'17	'18	'19	'20	'21		'13	'14	'15	'16	'17	'18	'19	'20	'21
Estimated number of pages calculated from three survey questions.	<i>n</i>	283	185	225	193	1,260	1,146	1,189	1,688	626		490	318	656	438	2,421	1,864	1,840	1,996	1,859
	<i>SD</i>	53.4	60.7	74.6	64.9	61.5	65.8	74.0	73.2	69.1		93.5	73.1	80.3	90.5	98.3	97.5	96.0	94.1	91.9
	<i>SE</i>	3.18	4.46	4.97	4.67	1.73	1.94	2.15	1.78	2.76		4.22	4.10	3.14	4.32	2.00	2.26	2.24	2.11	2.13
	<i>CI upper bound</i>	37.9	45.8	48.1	45.2	40.6	44.0	44.4	46.2	44.3		73.1	66.5	67.3	74.3	68.4	72.7	71.5	70.1	66.0
	<i>CI lower bound</i>	25.5	28.3	28.6	26.9	33.8	36.4	36.0	39.2	33.5		56.5	50.4	55.0	57.4	60.6	63.8	62.7	61.8	57.6
Course Challenge Extent to which courses challenged students to do best work (1="Not at all" to 7="Very much").	<i>Mean</i>	5.4	5.3	5.3	5.3	5.2	5.2	5.2	5.2	5.2		5.6	5.6	5.7	5.7	5.3	5.3	5.3	5.3	5.3
	<i>n</i>	327	205	237	216	1,263	1,129	1,189	1,685	628		542	356	713	472	2,405	1,859	1,839	1,994	1,838
	<i>SD</i>	1.2	1.3	1.2	1.2	1.3	1.4	1.3	1.3	1.3		1.2	1.2	1.3	1.2	1.5	1.4	1.5	1.4	1.4
	<i>SE</i>	.07	.09	.08	.08	.04	.04	.04	.03	.05		.05	.07	.05	.06	.03	.03	.03	.03	.03
	<i>CI upper bound</i>	5.5	5.5	5.4	5.5	5.3	5.2	5.2	5.3	5.3		5.7	5.7	5.8	5.8	5.4	5.4	5.4	5.4	5.4
	<i>CI lower bound</i>	5.2	5.2	5.1	5.1	5.1	5.1	5.1	5.2	5.1		5.5	5.4	5.6	5.5	5.3	5.3	5.2	5.3	5.2
Academic Emphasis Perceived institutional emphasis on spending significant time studying and on academic work (1 =	<i>Mean</i>	3.1	3.2	3.1	3.1	3.0	3.0	3.0	3.1	3.0		3.1	3.1	3.1	3.1	3.1	3.0	3.1	3.1	3.1
	<i>n</i>	282	180	212	192	1,209	1,117	1,183	1,660	617		491	326	647	439	2,298	1,847	1,836	1,973	1,821
	<i>SD</i>	0.8	0.8	0.8	0.8	0.7	0.7	0.7	0.7	0.8		0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
	<i>SE</i>	.05	.06	.06	.06	.02	.02	.02	.02	.03		.04	.04	.03	.04	.02	.02	.02	.02	.02
	<i>CI upper bound</i>	3.2	3.3	3.2	3.3	3.1	3.1	3.1	3.1	3.1		3.2	3.2	3.2	3.2	3.2	3.0	3.1	3.1	3.1
	<i>CI lower bound</i>	3.0	3.1	3.0	3.0	3.0	3.0	3.0	3.1	2.9		3.0	3.0	3.1	3.1	3.1	3.0	3.0	3.1	3.1
Learning with Peers																				
Collaborative Learning	<i>Mean</i>	32.6	30.8	28.5	29.6	33.0	33.5	34.1	33.2	21.7		33.3	32.6	33.6	33.1	34.4	34.6	34.4	35.0	28.2
	<i>n</i>	399	263	321	270	1,422	1,282	1,346	1,888	798		631	410	908	614	2,739	2,092	2,020	2,232	2,261
	<i>SD</i>	15.0	13.6	14.8	14.1	14.1	14.5	14.3	14.1	14.2		14.4	14.4	15.2	14.8	14.6	14.5	14.6	14.3	15.5
	<i>SE</i>	.75	.84	.82	.86	.37	.41	.39	.33	.50		.57	.71	.50	.60	.28	.32	.32	.30	.32
	<i>CI upper bound</i>	34.1	32.5	30.2	31.3	33.7	34.3	34.9	33.9	22.7		34.4	34.0	34.6	34.2	34.9	35.2	35.0	35.6	28.8
	<i>CI lower bound</i>	31.1	29.2	26.9	27.9	32.3	32.7	33.4	32.6	20.7		32.2	31.2	32.7	31.9	33.8	34.0	33.7	34.4	27.6
Discussions with Diverse Others	<i>Mean</i>	44.7	42.7	42.9	42.9	43.3	40.9	42.1	42.0	32.6		46.6	46.0	45.8	44.2	44.5	42.4	42.9	43.5	37.8
	<i>n</i>	326	203	237	216	1,259	1,143	1,184	1,684	633		545	355	717	473	2,411	1,860	1,837	1,991	1,850
	<i>SD</i>	16.6	17.0	15.1	16.4	15.4	15.7	15.4	15.9	17.6		15.8	16.8	17.1	16.9	16.1	16.4	16.2	15.8	17.8
	<i>SE</i>	.92	1.20	.98	1.12	.43	.47	.45	.39	.70		.68	.89	.64	.78	.33	.38	.38	.35	.41
	<i>CI upper bound</i>	46.5	45.0	44.8	45.1	44.1	41.8	42.9	42.8	34.0		47.9	47.8	47.0	45.7	45.1	43.2	43.6	44.2	38.6
	<i>CI lower bound</i>	42.9	40.3	40.9	40.7	42.4	40.0	41.2	41.3	31.2		45.3	44.3	44.5	42.6	43.8	41.7	42.1	42.8	37.0

Notes: n = Number of respondents; SD = Standard deviation; SE = Standard error of the mean; upper and lower bounds represent the 95% confidence interval (mean +/- 1.96 * SE).

Experiences with Faculty

Student-Faculty Interaction																				
	<i>Mean</i>	16.5	17.5	15.1	16.6	17.7	18.7	17.9	18.2	11.8		21.4	21.8	20.5	19.9	21.7	21.5	21.4	21.7	17.7
	<i>n</i>	360	244	283	250	1,351	1,186	1,238	1,762	707		603	388	823	539	2,642	1,946	1,901	2,097	2,048
	<i>SD</i>	14.2	14.0	13.8	15.1	14.7	15.6	14.6	15.1	12.8		17.0	16.2	16.1	15.7	15.8	15.9	16.3	15.8	15.8
	<i>SE</i>	.75	.90	.82	.96	.40	.45	.42	.36	.48		.69	.82	.56	.68	.31	.36	.37	.35	.35

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		'13	'14	'15	'16	'17	'18	'19	'20	'21			'13	'14	'15	'16	'17	'18	'19	'20	'21
Effective Teaching Practices	CI upper bound	18.0	19.2	16.7	18.5	18.4	19.6	18.8	18.9	12.7			22.7	23.4	21.6	21.3	22.3	22.2	22.1	22.4	18.4
	CI lower bound	15.1	15.7	13.4	14.8	16.9	17.9	17.1	17.5	10.9			20.0	20.2	19.4	18.6	21.1	20.8	20.7	21.0	17.0
	Mean	39.0	38.6	39.8	37.0	37.2	36.8	36.2	36.2	33.5			39.6	38.9	38.6	39.0	37.9	36.9	37.6	37.3	35.4
	n	359	247	287	253	1,371	1,176	1,224	1,729	679			609	392	821	539	2,653	1,922	1,891	2,063	1,965
	SD	13.8	13.2	13.6	13.6	12.6	13.1	13.2	12.7	13.5			14.0	14.3	15.1	14.9	13.7	13.7	14.0	13.9	14.7
	SE	.73	.84	.80	.85	.34	.38	.38	.31	.52			.57	.72	.53	.64	.27	.31	.32	.31	.33
	CI upper bound	40.5	40.3	41.4	38.6	37.8	37.5	36.9	36.8	34.5			40.8	40.3	39.7	40.2	38.4	37.5	38.2	37.9	36.0
	CI lower bound	37.6	37.0	38.3	35.3	36.5	36.0	35.4	35.6	32.5			38.5	37.5	37.6	37.7	37.3	36.3	36.9	36.7	34.8
Campus Environment																					
Quality of Interactions	Mean	36.4	37.6	37.8	40.4	38.1	38.1	38.6	39.6	37.2			39.3	40.6	40.5	40.8	39.3	38.9	40.0	40.2	40.1
	n	313	191	225	198	1,172	1,056	1,107	1,562	471			518	338	663	441	2,227	1,728	1,708	1,860	1,619
	SD	13.6	14.3	13.4	11.5	12.7	13.6	13.5	13.1	14.0			13.2	12.1	13.3	12.6	13.4	13.4	13.6	13.1	13.5
	SE	.77	1.03	.90	.82	.37	.42	.41	.33	.64			.58	.66	.52	.60	.28	.32	.33	.30	.34
	CI upper bound	37.9	39.6	39.6	42.0	38.9	39.0	39.4	40.3	38.5			40.5	41.8	41.5	42.0	39.9	39.6	40.7	40.8	40.8
	CI lower bound	34.9	35.6	36.1	38.8	37.4	37.3	37.8	39.0	35.9			38.2	39.3	39.5	39.6	38.7	38.3	39.4	39.6	39.4
Supportive Environment	Mean	36.4	38.2	35.6	37.5	36.2	34.8	36.5	36.2	29.6			32.7	34.3	33.9	33.8	33.2	32.1	33.2	33.3	30.9
	n	278	176	210	189	1,196	1,107	1,174	1,645	609			487	325	636	435	2,283	1,827	1,820	1,950	1,809
	SD	14.5	14.2	13.8	12.3	12.8	13.7	12.9	13.1	13.8			15.3	14.9	15.3	13.3	13.9	14.2	14.4	14.1	14.5
	SE	.87	1.07	.95	.89	.37	.41	.38	.32	.56			.69	.83	.61	.64	.29	.33	.34	.32	.34
	CI upper bound	38.1	40.3	37.5	39.3	37.0	35.6	37.2	36.8	30.7			34.0	35.9	35.1	35.1	33.8	32.7	33.9	33.9	31.6
	CI lower bound	34.7	36.1	33.8	35.8	35.5	34.0	35.7	35.5	28.5			31.3	32.6	32.7	32.6	32.6	31.4	32.6	32.7	30.2

Notes: n = Number of respondents; SD = Standard deviation; SE = Standard error of the mean; upper and lower bounds represent the 95% confidence interval (mean +/- 1.96 * SE).