

University of Central Missouri

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About This Report

About Your Multi-Year Report

For institutions participating in multiple NSSE administrations since 2013, the year of the last survey update, this report presents year-to-year results for Engagement Indicators (EIs), High-Impact Practices (HIPs), and key academic challenge items to illustrate patterns of change or stability. It also provides details such as numbers of respondents, standard deviations, and standard errors so that statistical tests can be calculated.

For more information and recommendations for analyzing NSSE data over time, view our webinar entitled *Recommendations for Using Multiple Years of NSSE Data:* http://go.iu.edu/2R1r

This report contains three main parts: (a) a page that provides a quick reference to important information about each year's administration, (b) multi-year figures, and (c) detailed statistics. Key terms and features are illustrated below.

Report sections

Administration Summaries (p. 3)	A summary of respondent counts, response rates, sampling errors, and administration details for each participation year.
Engagement Results by Theme (pp. 4-7)	Results for ten EIs and selected individual survey items are displayed, organized under four broad themes. The Academic Challenge theme is represented by four EIs as well as several individual items. The three remaining engagement themes (Learning with Peers, Experiences with Faculty, and Campus Environment) are each represented by two EIs.
High-Impact Practices (pp. 8-9)	Results for six HIPs are displayed. First-year student results indicate students who participated in service-learning, a learning community, and research with faculty, and who <i>planned to do</i> an internship or field experience, study abroad, and a culminating senior experience. Senior results indicate students who participated in all six.
Detailed Statistics (pp. 10-13)	Displays detailed information for results including counts, standard errors, and confidence intervals (CIs) for each measure.

Interpreting year-to-year results

When examining year-to-year results, you may wonder whether observed differences signify meaningful change and whether a trend is indicated. Figures display CIs around each score showing the range of values that is estimated to contain the population score 95% of the time. Upper and lower CI bounds are also reported in the Detailed Statistics section.

For further investigation

The Report Builder, updated with current data in the fall, allows for multi-year analysis of Engagement Indicators and individual items (including HIPs). It also affords the analysis of results by subpopulation. The Report Builder can be accessed via the NSSE Institution Interface.



Administration Summaries

University of Central Missouri

The precision of an institution's population estimates can vary between administrations. An important early step in conducting a multi-year analysis is to review data quality. The values in the tables below were drawn from your *Administration Summary* reports.

Response Details by Participation Year

		Fii	rst-year studen	ts	Seniors											
Year	Response rate ^a	Sampling error ^b	Total respondents ^c	Full completions	Partial completions	Response rate ^a	Sampling error ^b	Total respondents c	Full completions	Partial completions						
2013	26%	+/- 4.1%	435	363	72	28%	+/- 3.6%	543	483	60						
2014																
2015																
2016																
2017	8%	+/- 8.1%	136	89	47	9%	+/- 6.0%	242	172	70						
2018																
2019																
2020	18%	+/- 5.1%	306	203	103	16%	+/- 4.4%	421	303	118						
2021																
2022																
2023	11%	+/- 7.7%	146	97	49	16%	+/- 5.2%	294	239	55						

Administration Details by Participation Year

			Incentives		Report Sample		
Year	Recruitment method	Sample type	offered	Additional question sets	identified ^d	BCSSE	FSSE
2013	Email	Census	Yes	Civic Engagement	No	No	No
2014							
2015							
2016							
2017	Email	Census	No	Civic Engagement	No	No	No
2018							
2019							
2020	Email	Census	Yes	FY Experiences / Sr Transitions, Inclusiv & Cult Div	No	No	No
2021							
2022							
2023	Email	Census	Yes	Academic Advising, Inclusiv. & Cultural Div.	No	No	No

Note: All of your institution's participation years since 2013 (the first year of the updated NSSE) are reported. Years in which your institution did not participate are blank.

a. Response rates (number of respondents divided by sample size) are adjusted for ineligibility, nondeliverable addresses, and students who were unavailable during the survey administration.

b. Sampling error gauges the precision of results based on a sample survey. It is an estimate (at the 95% confidence level) of how much results for your respondents could differ from those of the entire population of students at your institution. While data with larger sampling errors (such as +/-10%) need not be dismissed out of hand, such results should be interpreted more conservatively.

c. Count used to calculate response rates and sampling errors for each Administration Summary report. Includes all census-administered and randomly sampled students, regardless of "Report Sample" designation.

d. Starting in 2017, institutions had the option to flag a subset of students for exclusion from reports. Refer to your Administration Summary reports.



Engagement Results by Theme

University of Central Missouri

Engagement Indicators (EIs) represent the average student responses to a set of related survey questions. The Academic Challenge theme contains four EIs as well as several important individual items. See the end of this report for detailed statistics. For more information, including the items that make up each EI, refer to your *Engagement Indicators* report.



'13 '14 '15 '16 '17 '18 '19 '20 '21 '22 '23

'13 '14 '15 '16 '17 '18 '19 '20 '21 '22 '23

'13 '14 '15 '16 '17 '18 '19 '20 '21 '22 '23

a. Values for Course Reading and Assigned Writing are estimates calculated from two or more survey questions. The Course Reading item changed in 2014; comparability between 2013 and later years is limited.

b. Extent to which courses challenged students to do their best work (1 = "Not at all" to 7 = "Very much").

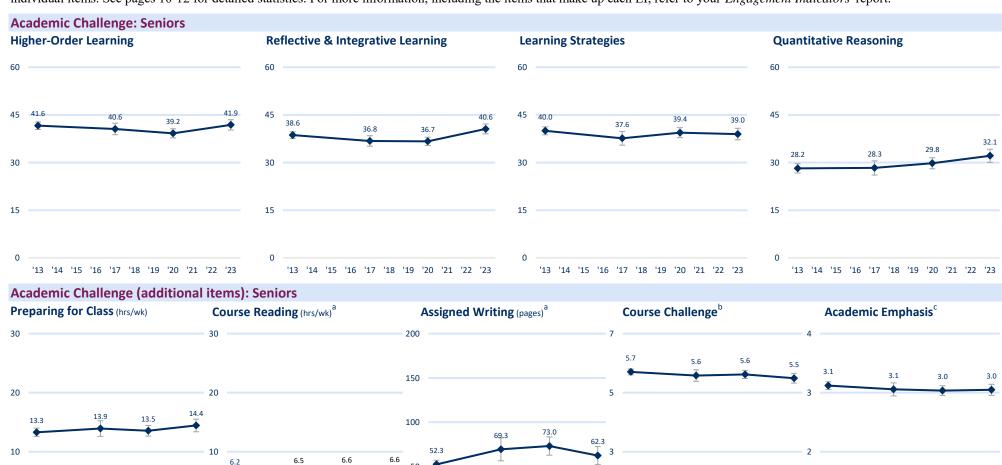
c. How much students said the institution emphasizes spending significant time studying and on academic work (1 = "Very little," 2 = "Some," 3 = "Quite a bit," and 4 = "Very much").



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- a. Values for Course Reading and Assigned Writing are estimates calculated from two or more survey questions. The Course Reading item changed in 2014; comparability between 2013 and later years is limited.
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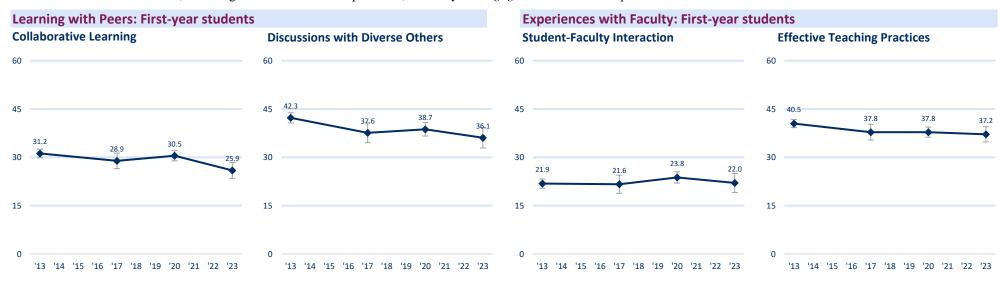
Campus Environment: First-year students

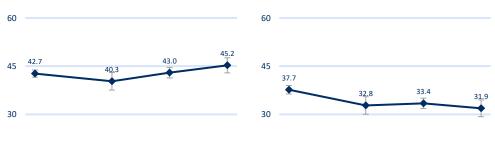
Quality of Interactions

NSSE 2023 Multi-Year Report

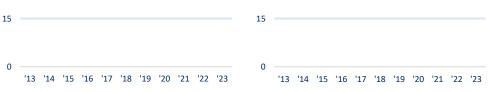
Engagement Results by Theme University of Central Missouri

Engagement Indicators (EIs) represent the average student responses to a set of related survey questions. Each theme below is represented by two EIs. See pages 10-12 for detailed statistics. For more information, including the items that make up each EI, refer to your *Engagement Indicators* report.





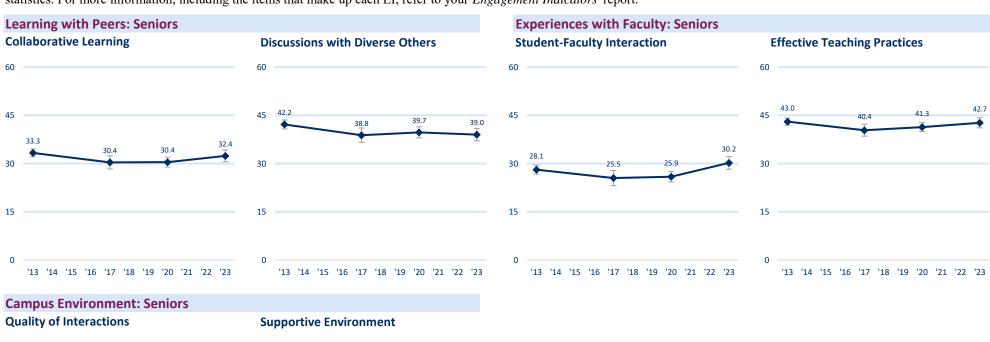
Supportive Environment

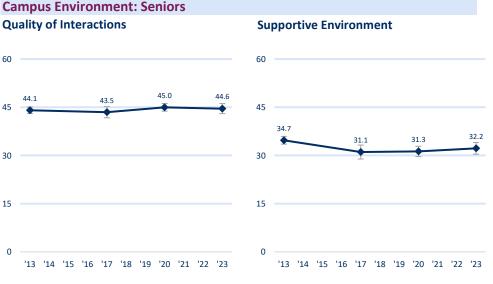




Engagement Results by Theme University of Central Missouri

Engagement Indicators (EIs) represent the average student responses to a set of related survey questions. Each theme below is represented by two EIs. See pages 10-12 for detailed statistics. For more information, including the items that make up each EI, refer to your *Engagement Indicators* report.



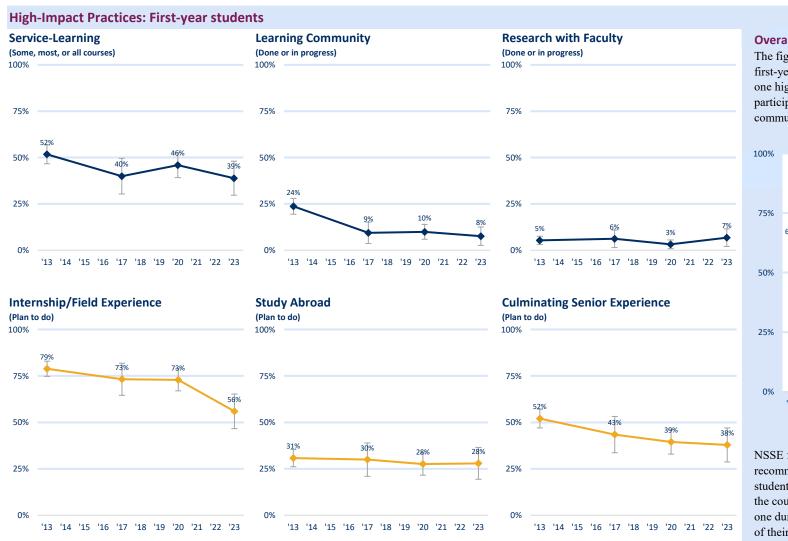




High-Impact Practices

University of Central Missouri

Due to their positive associations with student learning and retention, certain undergraduate opportunities are designated "high-impact." The figures below display first-year students' participation, or intent to participate, in High-Impact Practices (HIPs) by year. See page 13 for detailed statistics. For more information, refer to your *High-Impact Practices* report.



Overall first-year HIP participation

The figure below displays the percentages of first-year students who participated in at least one high-impact practice. The figure is limited to participation in service-learning, a learning community, and research with faculty.



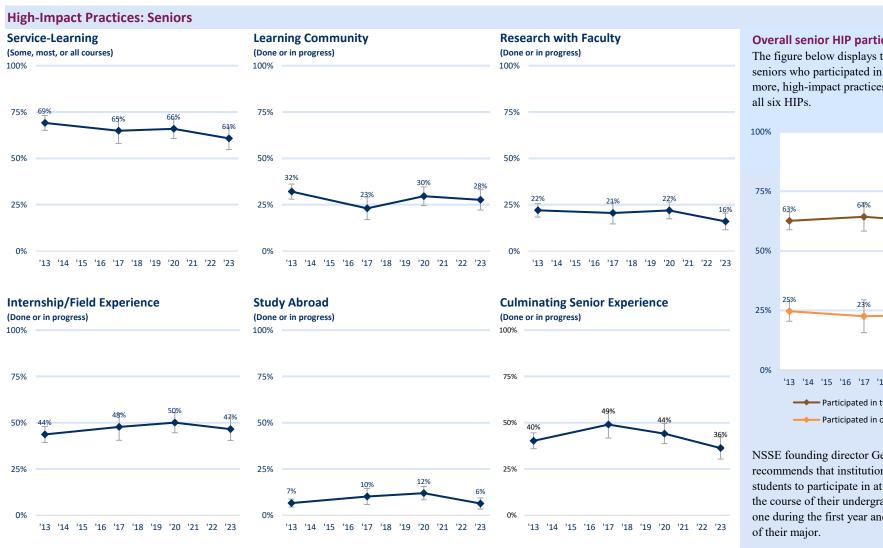
NSSE founding director George Kuh recommends that institutions aspire for all students to participate in at least two HIPs over the course of their undergraduate experience—one during the first year and one in the context of their major.



High-Impact Practices

University of Central Missouri

Due to their positive associations with student learning and retention, certain undergraduate opportunities are designated "high-impact." Participation in High-Impact Practices (HIPs) by year is displayed in the figures below. See page 13 for detailed statistics. For more information, refer to your High-Impact Practices report.



Overall senior HIP participation

The figure below displays the percentages of seniors who participated in one, and two or more, high-impact practices. The figure includes



NSSE founding director George Kuh recommends that institutions aspire for all students to participate in at least two HIPs over the course of their undergraduate experience one during the first year and one in the context



Detailed Statistics: Engagement Indicators and Additional Challenge Items University of Central Missouri

			First-year students												Seniors									
		'13	'14	'15	'16	'17	'18	'19	'20	'21	'22	'23	'13	'14	'15	'16	'17	'18	'19	'20	'21	'22	'23	
Academic Challenge																								
Higher-Order	Mean	39.5				34.9			36.5			36.3	41.6				40.6			39.2			41.9	
Learning	n	397				118			234			123	509				219			356			260	
•	SD	13.6				14.4			13.4			13.4	13.8				13.6			13.8			13.3	
	SE	.68				1.33			.87			1.21	.61				.92			.73			.83	
	CI up bnd	40.8				37.5			38.2			38.6	42.8				42.4			40.6			43.5	
	CI low bnd	38.2				32.3			34.8			33.9	40.4				38.8			37.7			40.2	
Reflective &	Mean	35.6				31.2			34.0			34.7	38.6				36.8			36.7			40.6	
Integrative	n	407				123			261			133	525				225			381			276	
Learning	SD	11.8				12.7			11.9			11.6	12.5				12.7			13.0			13.2	
Learning	SE	.59				1.15			.74			1.01	.55				.84			.67			.79	
	CI up bnd	36.8				33.5			35.4			36.7	39.7				38.4			38.0			42.1	
	CI low bnd	34.5				29.0			32.5			32.7	37.6				35.1			35.4			39.0	
Learning	Mean	39.3				36.1			35.6			37.4	40.0				37.6			39.4			39.0	
Strategies	n	379				100			216			110	495				187			329			257	
	SD	13.9				14.6			14.2			13.7	14.3				15.1			14.5			14.9	
	SE	.71				1.46			.97			1.30	.64				1.11			.80			.93	
	CI up bnd	40.6				39.0			37.5			39.9	41.2				39.8			41.0			40.8	
	CI low bnd	37.9				33.2			33.7			34.8	38.7				35.5			37.8			37.1	
Quantitative	Mean	28.1				25.0			28.4			27.5	28.2				28.3			29.8			32.1	
Reasoning	n	403				114			222			114	521				214			335			261	
	SD	16.7				15.9			14.4			14.3	17.1				16.7			16.3			17.0	
	SE	.83				1.49			.97			1.34	.75				1.14			.89			1.05	
	CI up bnd	29.8				27.9			30.3			30.1	29.6				30.5			31.5			34.2	
	CI low bnd	26.5				22.0			26.5			24.9	26.7				26.1			28.0			30.1	
Academic Challenge (
Preparing for	Mean	13.2				14.8			13.4			11.9	13.3				13.9			13.5			14.4	
Class (hours/week)	n	362				90			211			108	490				174			313			249	
	SD	7.7				8.8			7.3			7.9	8.1				8.9			8.2			8.6	
	SE	.41				.93			.50			.76	.37				.67			.46			.55	
	CI up bnd	14.0				16.6			14.4			13.4	14.0				15.2			14.5			15.5	
	CI low bnd	12.4				12.9			12.4			10.4	12.6				12.6			12.6			13.4	
Course Reading	Mean	5.9				6.1			5.7			4.9	6.2				6.5			6.6			6.6	
Est. hrs per wk calculated	n	361				89			210			108	487				174			313			248	
from two items. Item	SD	5.0				5.7			5.7			4.7	5.5				6.2			6.3			6.2	
wording changed in 2014; comparability with '13 is	SE	.26				.60			.39			.45	.25				.47			.36			.40	
limited.	CI up bnd	6.4				7.3			6.5			5.8	6.7				7.5			7.3			7.4	
minicu.	CI low bnd	5.4				4.9			5.0			4.0	5.8				5.6			5.9			5.9	

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).



Detailed Statistics: Engagement Indicators and Additional Challenge Items University of Central Missouri

		First-year students											Seniors										
		'13	'14	'15	'16	'17	'18	'19	'20	'21	'22	'23	'13	'14	'15	'16	'17	'18	'19	'20	'21	'22	'23
Academic Challenge ((additional i	tems, c	ontinue	d)																			
Assigned Writing	Mean	43.5				37.9			47.2			54.9	52.3				69.3			73.0			62.3
Estimated number of pages	n	347				101			220			110	468				188			336			26
calculated from three survey	SD	77.2				39.6			72.0			76.3	51.5				90.6			96.5			84.9
questions.	SE	4.14				3.94			4.85			7.28	2.38				6.61			5.27			5.25
	CI up bnd	51.7				45.6			56.7			69.2	56.9				82.3			83.4			72.6
	CI low bnd	35.4				30.2			37.7			40.6	47.6				56.4			62.7			52.0
Course Challenge	Mean	5.5				5.4			5.3			5.4	5.7				5.6			5.6			5.5
Extent to which courses challenged students to do	n	379				102			216			111	507				185			327			257
	SD	1.1				1.3			1.4			1.1	1.1				1.4			1.3			1.3
best work (1="Not at all" to 7="Very much").	SE	.06				.13			.09			.10	.05				.10			.07			.08
7- Very much j.	CI up bnd	5.7				5.7			5.5			5.6	5.8				5.8			5.8			5.7
	CI low bnd	5.4				5.2			5.1			5.2	5.6				5.4			5.5			5.3
Academic	Mean	3.2				3.0			3.0			2.9	3.1				3.1			3.0			3.0
Emphasis	n	365				92			213			109	491				178			316			252
Perceived inst'l emphasis on	SD	0.7				0.8			0.7			0.7	0.7				0.8			0.7			0.8
spending significant time	SE	.04				.08			.05			.07	.03				.06			.04			.05
studying and on academic	CI up bnd	3.3				3.2			3.1			3.1	3.2				3.2			3.1			3.1
work (1 = "Very little" to 4 = "Very much").	CI low bnd	3.1				2.9			2.9			2.8	3.1				2.9			3.0			3.0
Learning with Peers																							
Collaborative	Mean	31.2				28.9			30.5			25.9	33.3				30.4			30.4			32.4
Learning	n	419				128			293			139	528				232			408			287
Learning	SD	13.9				13.9			13.8			14.9	14.2				15.8			15.8			15.9
	SE	.68				1.23			.81			1.26	.62				1.04			.78			.94
	CI up bnd	32.6				31.3			32.1			28.4	34.5				32.4			32.0			34.2
	CI low bnd	29.9				26.5			28.9			23.5	32.1				28.3			28.9			30.6
Discussions with	Mean	42.3				37.6			38.7			36.1	42.2				38.8			39.7			39.0
Diverse Others	n	382				102			218			112	505				190			332			260
Diverse Officis	SD	15.7				15.9			15.8			17.3	15.9				15.9			15.9			15.8
	SE	.80				1.57			1.07			1.63	.71				1.15			.87			.98
	CI up bnd	43.8				40.7			40.8			39.3	43.5				41.1			41.4			40.9
	CI low bnd	40.7				34.5			36.6			32.9	40.8				36.6			38.0			37.1

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).



Detailed Statistics: Engagement Indicators and Additional Challenge Items University of Central Missouri

		First-year students											Seniors										
		'13	'14	'15	'16	'17	'18	'19	'20	'21	'22	'23	'13	'14	'15	'16	'17	'18	'19	'20	'21	'22	'23
Experiences with Facu	lty																						
Student-Faculty	Mean	21.9				21.6			23.8			22.0	28.1				25.5			25.9			30.2
Interaction	n	402				122			246			127	519				221			370			270
	SD	14.9				15.9			14.1			17.2	16.2				17.8			16.3			16.6
	SE	.74				1.45			.90			1.52	.71				1.20			.85			1.01
	CI up bnd	23.3				24.5			25.5			25.0	29.5				27.8			27.6			32.2
	CI low bnd	20.4				18.8			22.0			19.1	26.7				23.1			24.2			28.2
Effective Teaching	Mean	40.5				37.8			37.8			37.2	43.0				40.4			41.3			42.7
Practices	n	406				116			231			122	525				214			347			268
	SD	12.9				13.5			12.3			13.3	13.1				13.9			13.2			13.2
	SE	.64				1.25			.81			1.21	.57				.95			.71			.81
	CI up bnd	41.7				40.3			39.4			39.5	44.2				42.2			42.7			44.3
	CI low bnd	39.2				35.4			36.3			34.8	41.9				38.5			39.9			41.1
Campus Environment																							
Quality of	Mean	42.7				40.3			43.0			45.2	44.1				43.5			45.0			44.6
Interactions	n	375				95			205			86	488				168			287			226
	SD	11.1				13.6			11.9			11.1	11.3				11.5			10.3			12.1
	SE	.57				1.40			.83			1.20	.51				.89			.61			.80
	CI up bnd	43.8				43.0			44.6			47.6	45.1				45.2			46.2			46.2
	CI low bnd	41.5				37.5			41.3			42.9	43.1				41.7			43.8			43.0
Supportive	Mean	37.7				32.8			33.4			31.9	34.7				31.1			31.3			32.2
Environment	n	363				90			213			109	487				176			314			250
	SD	12.8				13.3			11.9			13.9	13.5				14.7			14.5			14.6
	SE	.67				1.40			.82			1.33	.61				1.11			.82			.93
	CI up bnd	39.0				35.5			35.0			34.5	35.9				33.2			32.9			34.0
	CI low bnd	36.4				30.0			31.8			29.3	33.5				28.9			29.7			30.4

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).



Detailed Statistics: High-Impact Practices

University of Central Missouri

		First-year students												Seniors										
		'13	'14	'15	'16	'17	'18	'19	'20	'21	'22	'23	'13	'14	'15	'16	'17	'18	'19	'20	'21	'22	'23	
Service-Learning ^a	%	52				40			46			39	69				65			66			61	
J	n	375				101			216			109	504				185			315			252	
	SE	2.6				4.9			3.4			4.7	2.1				3.5			2.7			3.1	
	CI up bnd	57				50			53			48	73				72			71			67	
	CI low bnd	47 24				30 9			39 10			30	65 32				58 23			61 30			55 28	
Learning	%	24 380							10 216			8 110	32 505				23 184			30 320			28 254	
Community ^a	n SE	2.2				99 2.9			2.0			2.5	2.1				3.1			2.6			2.8	
•	CI up bnd	2.2				15			14			13	36				29			35			33	
	CI low bnd	19				4			6			3	28				17			25			22	
Research with	%	5				6			3			7	22				21			22			16	
	n	380				101			216			109	505				184			316			254	
Faculty ^a	SE	1.1				2.4			1.2			2.4	1.8				3.0			2.3			2.3	
	CI up bnd	8				11			6			12	26				26			27			21	
	CI low bnd	3				1			1			2	18				15			17			11	
Internship or Field	%	79				73			73			56	44				48			50			47	
•	n	383				102			216			110	508				185			323			257	
Experience ^b	SE	2.1				4.4			3.0			4.8	2.2				3.7			2.8			3.1	
(First-year results: Plan to	CI up bnd	83				82			79			65	48				55			55			53	
do)	CI low bnd	75				65			67			47	39				40			45			40	
Study Abroad ^b	%	31				30			28			28	7				10			12			6	
(First-year results: Plan to	n	380				101			216			106	507				185			318			253	
do)	SE	2.4				4.6			3.0			4.4	1.1				2.2			1.8			1.5	
	CI up bnd	35				39			34			36	9				14			15			9	
	CI low bnd	26				21			22			19	4				6			8			3	
Culminating Senior	%	52				43			39			38	40				49			44			36	
Experience ^b	n	381				100			216			109	504				182			320			253	
(First-year results: Plan to	SE	2.6				5.0			3.3			4.7	2.2				3.7			2.8			3.0	
do)	CI up bnd	57				53			46			47	45				56			50			42	
·	CI low bnd	47				34			33			29	36				42			39			30	
Overall HIP Participa	tion [©]																							
Participated in one	%	46				37			43			40	25				23			23			30	
HIP	n	383				102			216			110	508				186			325			257	
	SE	2.6				4.8			3.4			4.7	1.9				3.1			2.3			2.9	
	CI up bnd	51				46			49			49	28				29			28			36	
	CI low bnd	41				27			36			30	21				17			18			25	
Participated in two	%	16				9			8			6	63				64			63			54	
or more HIPs	n	383				102			216			110	508				186			325			257	
	SE	1.9				2.9			1.9			2.3	2.1				3.5			2.7			3.1	
	CI up bnd	20				15			12			11	67				71			68			60	
N. A N	CI low bnd	12				4	. 1) 1)1		4			2	58				57			57			48	

Notes: n = Number of respondents; SE = Standard error of the proportion (sqrt[(p*(1-p))/(n-1)]) where p is the proportion; upper and lower bounds represent the 95% confidence interval (p+/-1.96*SE).

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a. Results are the percentage who had done the activity.

b. First-year results are the percentage who planned to do the activity; Senior results are the percentage who had done the activity.

c. First-year results are limited to participation in a Learning Community, Service-Learning, and Research with Faculty; senior results include all six HIPs.