



NSSE 2020
Multi-Year Report
Brenau University

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 number of respondents, standard deviation, and standard error 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 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

Year	First-year students					Seniors				
	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										
2014	42%	+/- 6.1%	150	106	44	48%	+/- 4.5%	245	210	35
2015										
2016	50%	+/- 6.9%	102	85	17	49%	+/- 5.8%	145	124	21
2017										
2018	32%	+/- 9.6%	72	51	21	35%	+/- 7.2%	121	94	27
2019										
2020	47%	+/- 9.0%	63	46	17	34%	+/- 6.6%	144	112	32

Administration Details by Participation Year

Year	Recruitment method	Sample type	Incentives offered	Additional question sets	Report Sample identified ^d	BCSSE	FSSE
2013							
2014	Email	Census	No	Academic Advising, Transferable Skills	No	No	No
2015							
2016	Email	Census	No	Academic Advising, Information Literacy	No	No	No
2017							
2018	Email	Census	No	Transferable Skills, Information Literacy	No	No	No
2019							
2020	Email	Census	Yes	Global Learning, Inclusiv & Cult Div	No	No	Yes

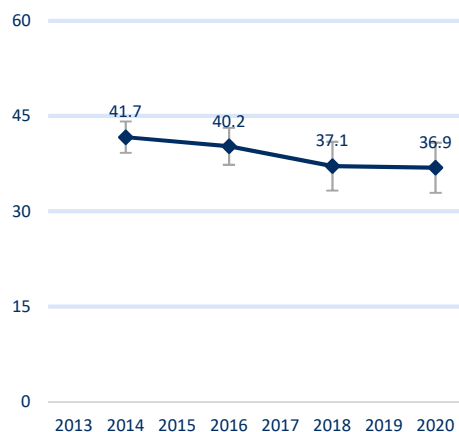
Note: All of your institution's participation years since 2013 (the first year of the updated NSSE) are reported. Years in which your institution did not participate are blank.

- Response rates (number of respondents divided by sample size) are adjusted for ineligibility, nondeliverable addresses, and students who were unavailable during the survey administration.
- Sampling error gauges the precision of results based on a sample survey. It is an estimate (at the 95% confidence level) of how much survey item percentages 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.
- 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.
- Starting in 2017, institutions had the option to flag a subset of students for exclusion from reports. Refer to your *Administration Summary* reports.

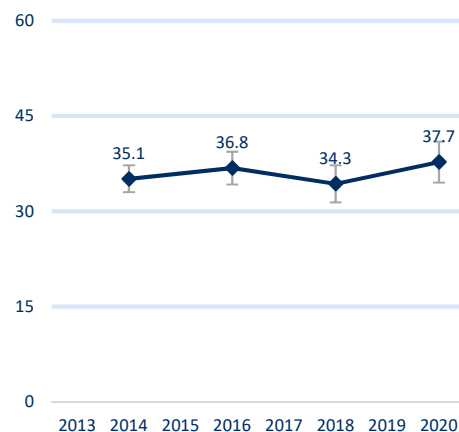
Engagement Indicators (EIs) represent the average student responses to a set of related survey questions. The Academic Challenge theme contains four EIs as well as several important individual items. See pages 10-12 for detailed statistics. For more information, including the items that make up each EI, refer to your *Engagement Indicators* report.

Academic Challenge: First-year students

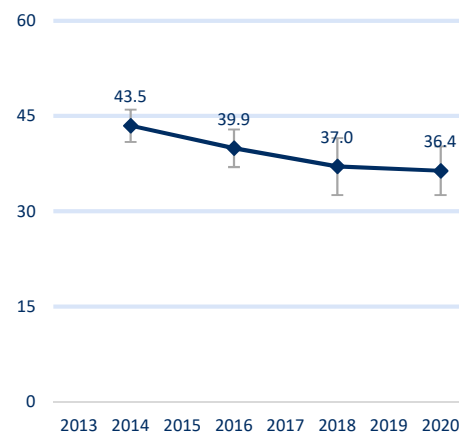
Higher-Order Learning



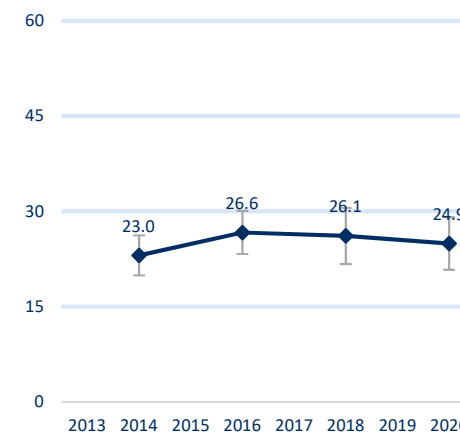
Reflective & Integrative Learning



Learning Strategies

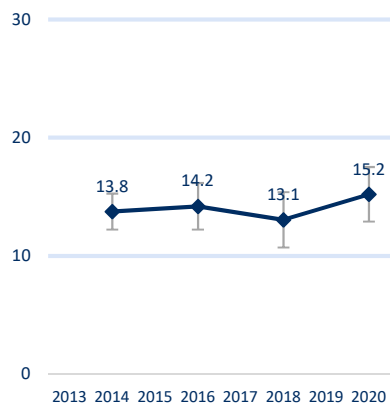


Quantitative Reasoning

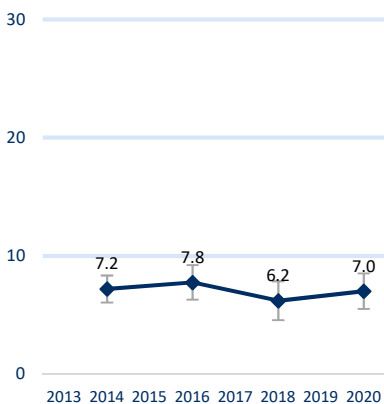


Academic Challenge (additional items): First-year students

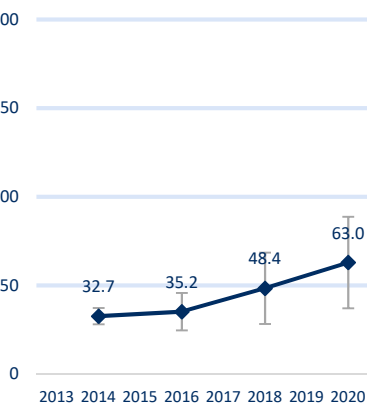
Preparing for Class (hrs/wk)



Course Reading (hrs/wk)^a



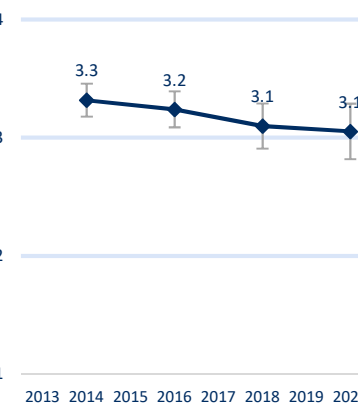
Assigned Writing (pages)^a



Course Challenge^b



Academic Emphasis^c



a. Values for Course Reading and Assigned Writing are estimates calculated from two or more survey questions.

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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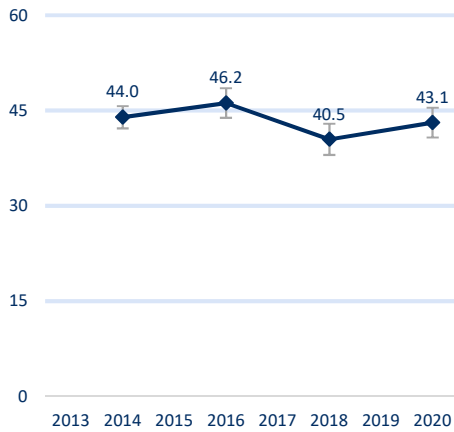
Engagement Results by Theme

Brenau University

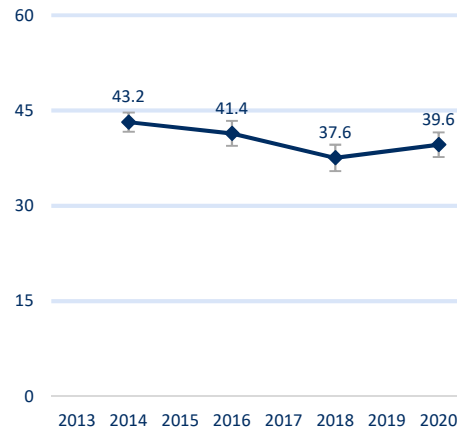
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Academic Challenge: Seniors

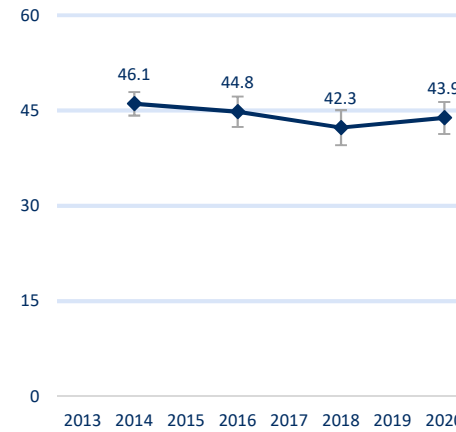
Higher-Order Learning



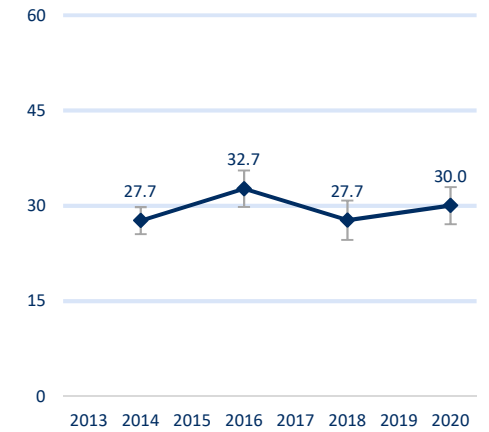
Reflective & Integrative Learning



Learning Strategies

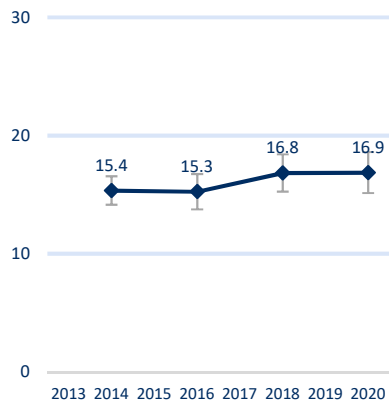


Quantitative Reasoning

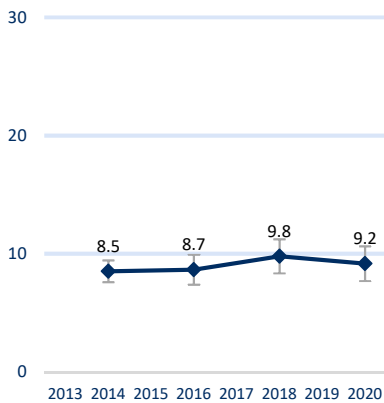


Academic Challenge (additional items): Seniors

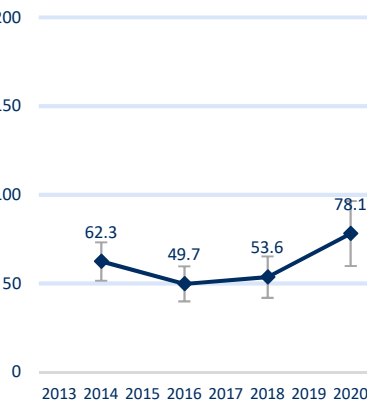
Preparing for Class (hrs/wk)



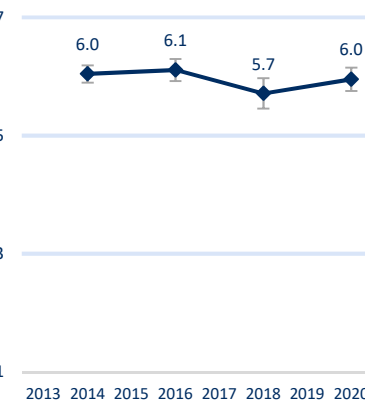
Course Reading (hrs/wk)^a



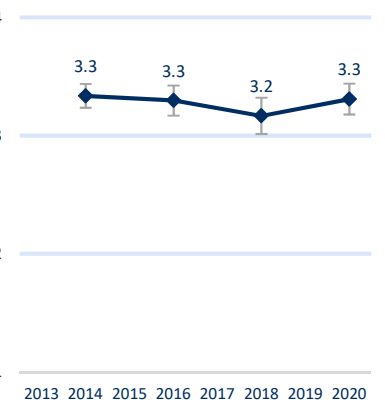
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Course Challenge^b



Academic Emphasis^c



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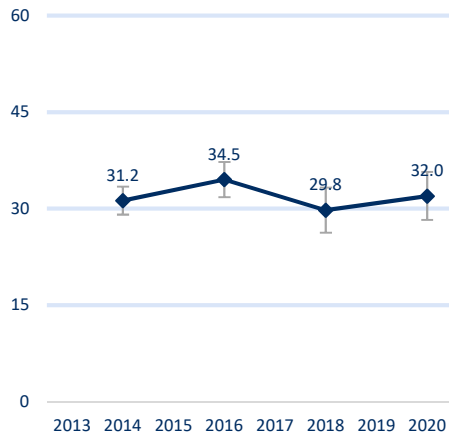
b. Extent to which courses challenged students to do their best work (1 = "Not at all" to 7 = "Very much").

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").

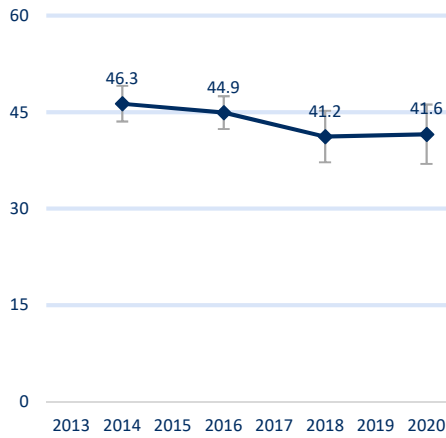
Engagement Indicators (EIs) represent the average student responses to a set of related survey questions. Each theme below is represented by two EIs. See pages 10-12 for detailed statistics. For more information, including the items that make up each EI, refer to your *Engagement Indicators* report.

Learning with Peers: First-year students

Collaborative Learning

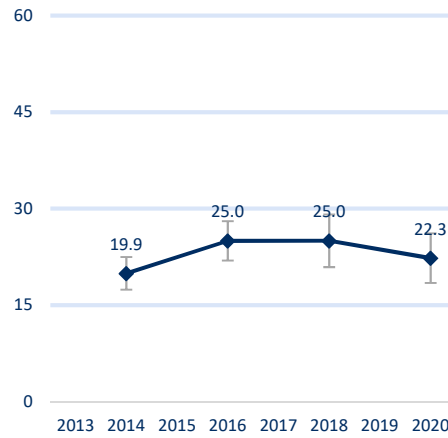


Discussions with Diverse Others

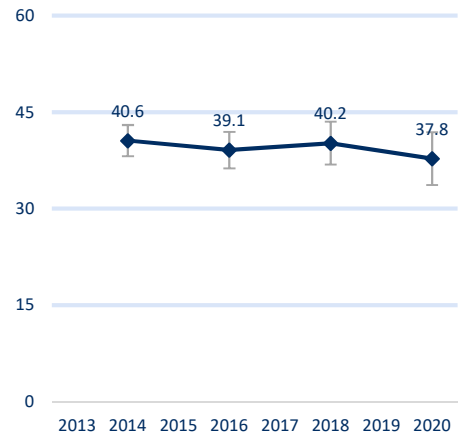


Experiences with Faculty: First-year students

Student-Faculty Interaction

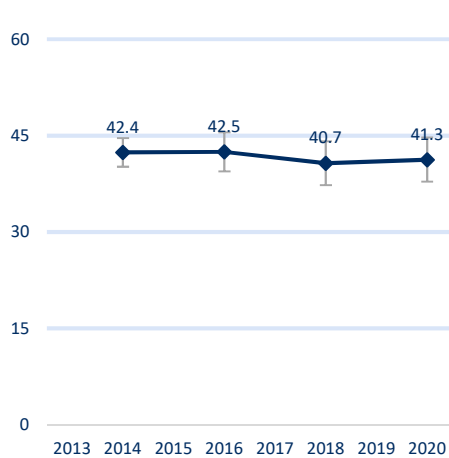


Effective Teaching Practices

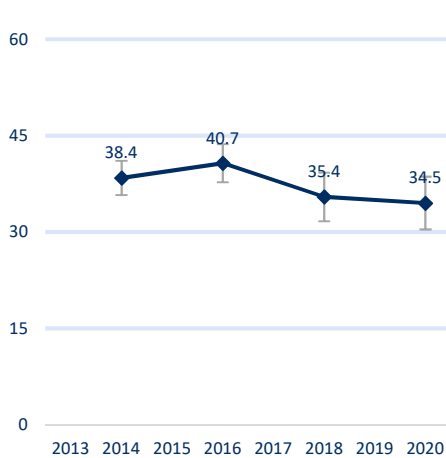


Campus Environment: First-year students

Quality of Interactions



Supportive Environment



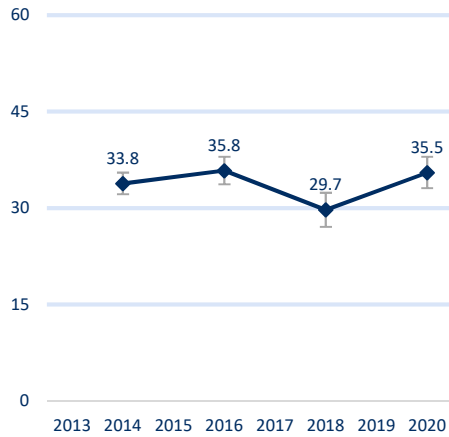
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Engagement Results by Theme Brenau University

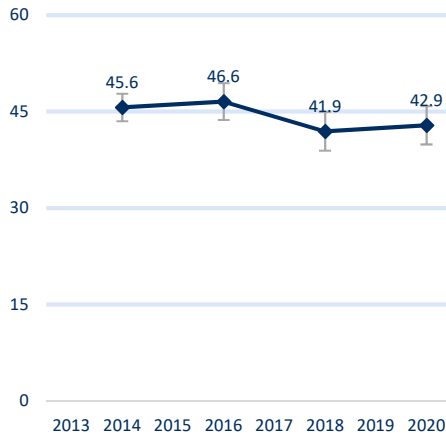
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Learning with Peers: Seniors

Collaborative Learning

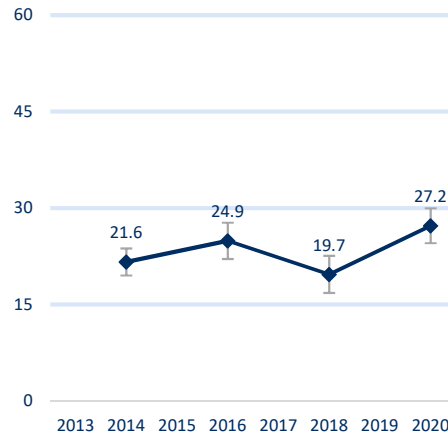


Discussions with Diverse Others

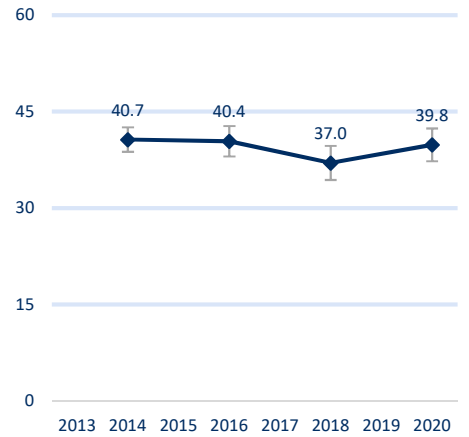


Experiences with Faculty: Seniors

Student-Faculty Interaction

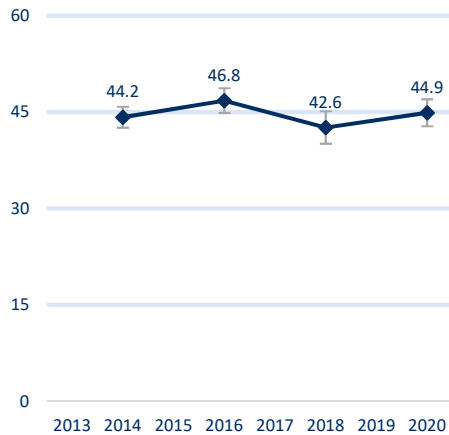


Effective Teaching Practices

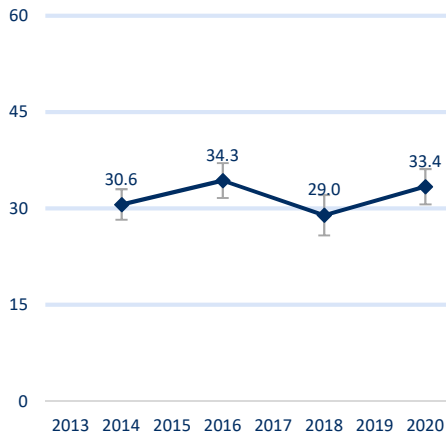


Campus Environment: Seniors

Quality of Interactions



Supportive Environment

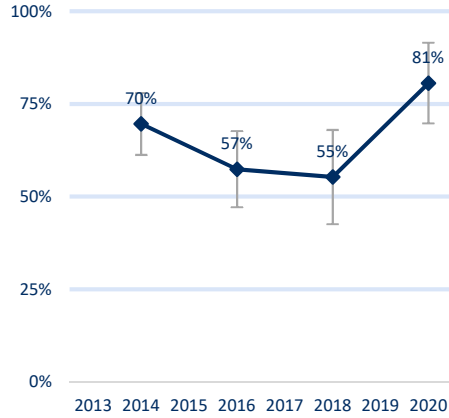


Due to their positive associations with student learning and retention, special undergraduate opportunities are designated "high-impact." The figures below display first-year students' participation, or intent to participate, in High-Impact Practices (HIPs) by year. See page 13 for detailed statistics.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

High-Impact Practices: First-year students

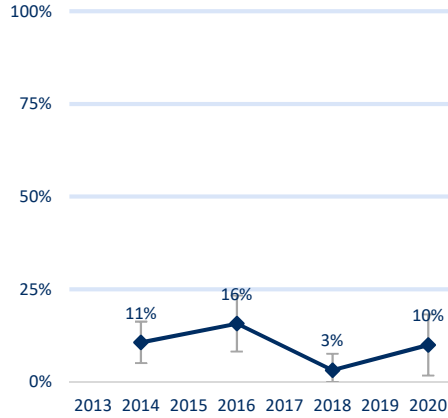
Service-Learning

(Some, most, or all courses)



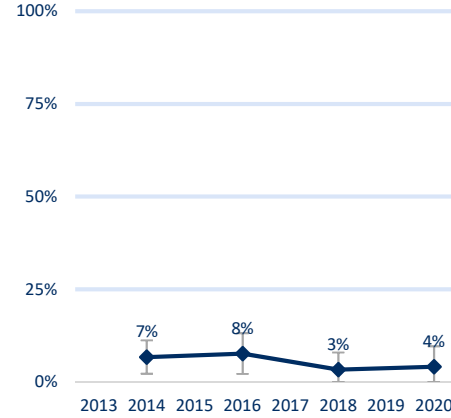
Learning Community

(Done or in progress)



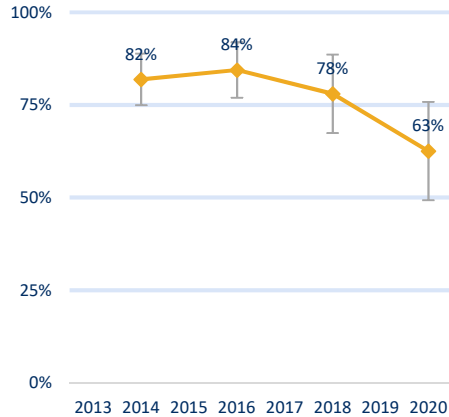
Research with Faculty

(Done or in progress)



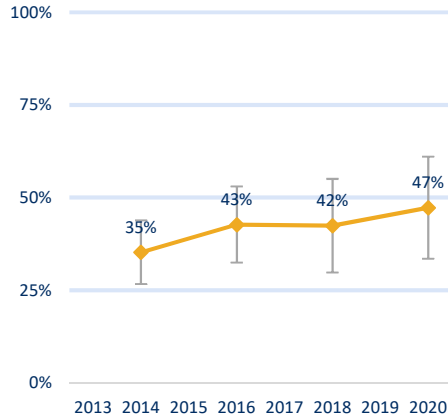
Internship/Field Experience

(Plan to do)



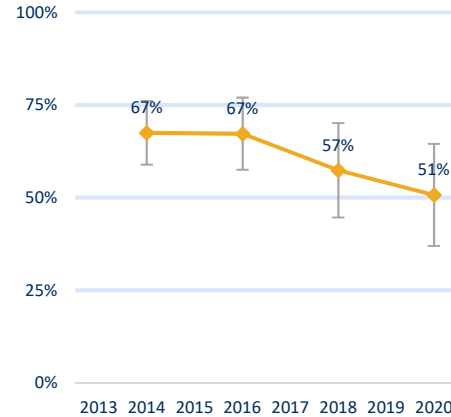
Study Abroad

(Plan to do)



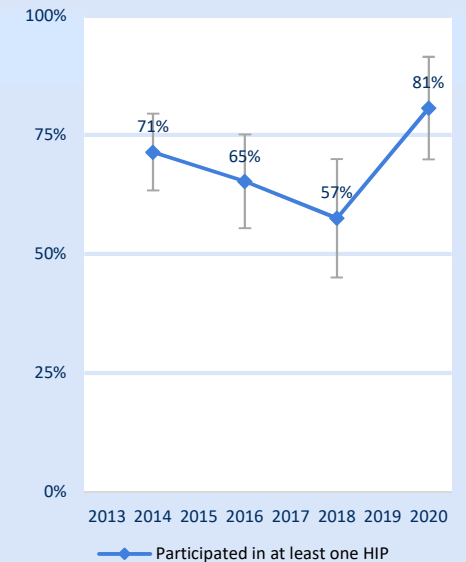
Culminating Senior Experience

(Plan to do)



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.



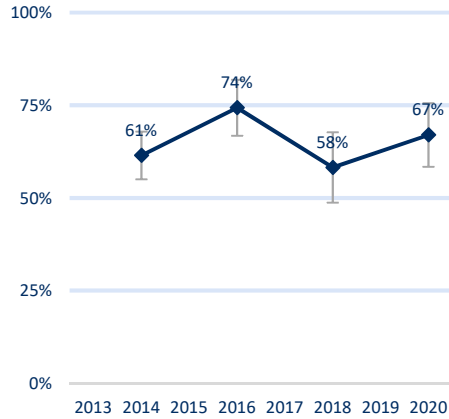
NSSE founding director George Kuh recommends that institutions aspire for all students to participate in at least two HIPs over the course of their undergraduate experience—one during the first year and one in the context of their major.

Due to their positive associations with student learning and retention, special 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.

High-Impact Practices: Seniors

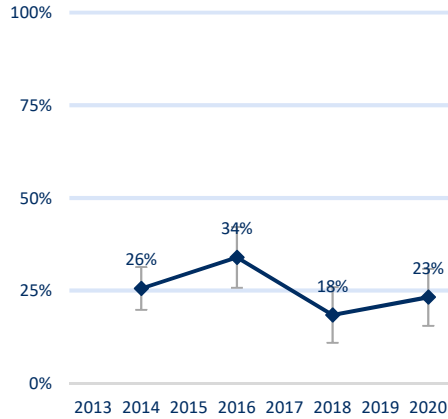
Service-Learning

(Some, most, or all courses)



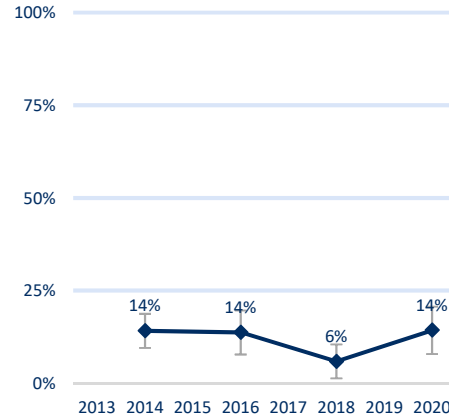
Learning Community

(Done or in progress)



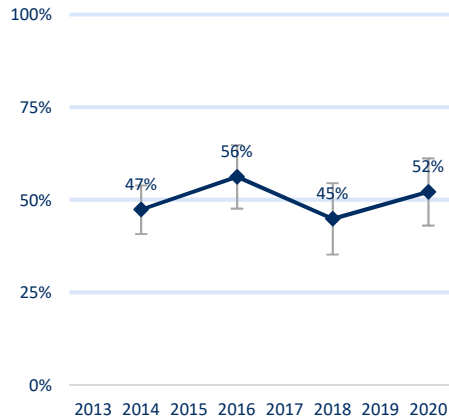
Research with Faculty

(Done or in progress)



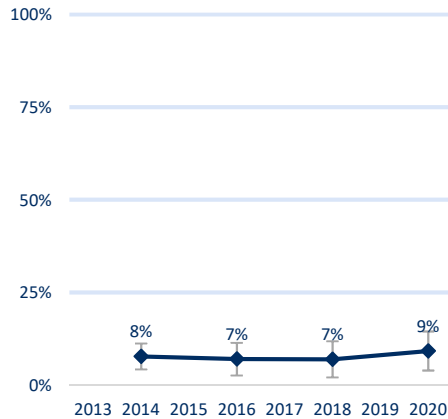
Internship/Field Experience

(Done or in progress)



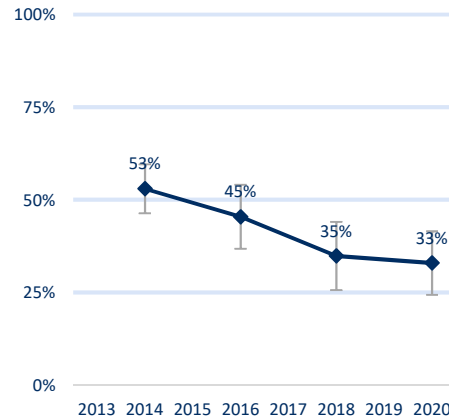
Study Abroad

(Done or in progress)



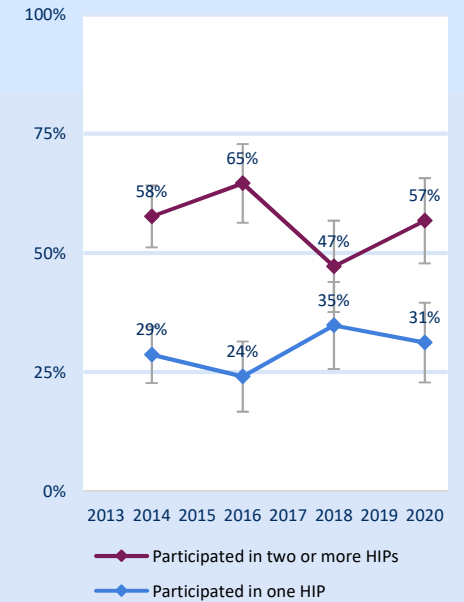
Culminating Senior Experience

(Done or in progress)



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 all six HIPs.



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.

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Detailed Statistics: Engagement Indicators and Additional Items

Brenau University

		First-year students							Seniors								
		2013	2014	2015	2016	2017	2018	2019	2020	2013	2014	2015	2016	2017	2018	2019	2020
<i>Academic Challenge</i>																	
Higher-Order Learning	<i>Mean</i>		41.7		40.2		37.1		36.9		44.0		46.2		40.5		43.1
	<i>n</i>		126		94		61		53		228		129		106		125
	<i>SD</i>		14.1		14.4		15.3		14.6		13.6		13.5		12.9		13.4
	<i>SE</i>		1.25		1.48		1.96		2.01		.90		1.19		1.25		1.20
	<i>CI upper bound</i>		44.1		43.1		40.9		40.8		45.7		48.5		42.9		45.4
	<i>CI lower bound</i>		39.2		37.3		33.3		32.9		42.2		43.9		38.0		40.8
Reflective & Integrative Learning	<i>Mean</i>		35.1		36.8		34.3		37.7		43.2		41.4		37.6		39.6
	<i>n</i>		132		100		65		58		231		137		113		131
	<i>SD</i>		12.4		13.1		12.1		12.5		11.7		11.7		11.2		11.3
	<i>SE</i>		1.08		1.31		1.49		1.65		.77		1.00		1.06		.99
	<i>CI upper bound</i>		37.2		39.4		37.2		41.0		44.7		43.4		39.6		41.6
	<i>CI lower bound</i>		33.0		34.2		31.4		34.5		41.7		39.4		35.5		37.7
Learning Strategies	<i>Mean</i>		43.5		39.9		37.0		36.4		46.1		44.8		42.3		43.9
	<i>n</i>		117		88		59		52		218		121		104		120
	<i>SD</i>		14.0		14.2		17.6		14.1		14.0		13.4		14.3		14.0
	<i>SE</i>		1.30		1.51		2.29		1.95		.95		1.22		1.40		1.28
	<i>CI upper bound</i>		46.0		42.9		41.5		40.2		47.9		47.2		45.1		46.4
	<i>CI lower bound</i>		40.9		37.0		32.6		32.5		44.2		42.4		39.6		41.3
Quantitative Reasoning	<i>Mean</i>		23.0		26.6		26.1		24.9		27.7		32.7		27.7		30.0
	<i>n</i>		126		98		60		54		229		134		103		121
	<i>SD</i>		18.2		17.2		17.4		15.5		16.4		16.9		16.0		16.4
	<i>SE</i>		1.62		1.73		2.25		2.11		1.08		1.46		1.58		1.49
	<i>CI upper bound</i>		26.2		30.0		30.5		29.0		29.8		35.6		30.8		33.0
	<i>CI lower bound</i>		19.9		23.3		21.7		20.8		25.6		29.8		24.6		27.1
<i>Academic Challenge (additional items)</i>																	
Preparing for Class (hours/week)	<i>Mean</i>		13.8		14.2		13.1		15.2		15.4		15.3		16.8		16.9
	<i>n</i>		109		86		58		51		213		125		100		115
	<i>SD</i>		8.1		9.3		9.1		8.4		8.9		8.6		8.0		9.5
	<i>SE</i>		.78		1.00		1.19		1.18		.61		.77		.80		.88
	<i>CI upper bound</i>		15.3		16.2		15.4		17.5		16.6		16.8		18.4		18.6
	<i>CI lower bound</i>		12.2		12.2		10.7		12.9		14.2		13.8		15.3		15.1
Course Reading Estimated hours per week calculated from two survey questions.	<i>Mean</i>		7.2		7.8		6.2		7.0		8.5		8.7		9.8		9.2
	<i>n</i>		108		85		58		51		212		125		98		115
	<i>SD</i>		6.1		6.9		6.4		5.5		6.8		7.2		7.2		8.0
	<i>SE</i>		.58		.74		.84		.77		.47		.65		.73		.75
	<i>CI upper bound</i>		8.3		9.2		7.9		8.5		9.4		9.9		11.2		10.6
	<i>CI lower bound</i>		6.0		6.3		4.6		5.5		7.6		7.4		8.4		7.7

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).

NSSE 2020 Multi-Year Report

Detailed Statistics: Engagement Indicators and Additional Items

Brenau University

		First-year students						Seniors									
		2013	2014	2015	2016	2017	2018	2019	2020	2013	2014	2015	2016	2017	2018	2019	2020
<i>Academic Challenge (additional items, continued)</i>																	
Assigned Writing	<i>Mean</i>		32.7		35.2		48.4		63.0		62.3		49.7		53.6		78.1
Estimated number of pages calculated from three survey questions.	<i>n</i>		109		85		60		54		185		115		103		119
	<i>SD</i>		24.5		49.5		79.4		96.5		75.4		53.9		60.5		102.3
	<i>SE</i>		2.34		5.38		10.26		13.17		5.55		5.03		5.97		9.36
	<i>CI upper bound</i>		37.3		45.8		68.6		88.8		73.2		59.6		65.2		96.5
	<i>CI lower bound</i>		28.1		24.7		28.3		37.2		51.5		39.9		41.9		59.8
Course Challenge	<i>Mean</i>		5.7		5.6		5.8		5.6		6.0		6.1		5.7		6.0
Extent to which courses challenged students to do their best work (1 = "Not at all" to 7 = "Very much").	<i>n</i>		121		91		57		52		221		128		105		119
	<i>SD</i>		1.2		1.3		1.5		1.3		1.1		1.1		1.3		1.1
	<i>SE</i>		.11		.13		.20		.18		.07		.10		.13		.10
	<i>CI upper bound</i>		6.0		5.9		6.2		5.9		6.2		6.3		6.0		6.1
	<i>CI lower bound</i>		5.5		5.3		5.5		5.2		5.9		5.9		5.5		5.8
Academic Emphasis	<i>Mean</i>		3.3		3.2		3.1		3.1		3.3		3.3		3.2		3.3
Perceived institutional emphasis on spending significant time studying and on academic work (1 = "Very little," 2 = "Some," 3 = "Quite a bit," and 4 = "Very much").	<i>n</i>		110		88		56		51		212		126		102		115
	<i>SD</i>		0.7		0.7		0.7		0.9		0.7		0.7		0.8		0.7
	<i>SE</i>		.07		.08		.10		.12		.05		.06		.08		.07
	<i>CI upper bound</i>		3.5		3.4		3.3		3.3		3.4		3.4		3.3		3.4
	<i>CI lower bound</i>		3.2		3.1		2.9		2.8		3.2		3.2		3.0		3.2
<i>Learning with Peers</i>																	
Collaborative Learning	<i>Mean</i>		31.2		34.5		29.8		32.0		33.8		35.8		29.7		35.5
	<i>n</i>		135		98		70		61		230		142		120		137
	<i>SD</i>		13.0		13.9		15.0		14.8		12.9		13.0		14.8		14.5
	<i>SE</i>		1.11		1.40		1.79		1.91		.85		1.09		1.35		1.24
	<i>CI upper bound</i>		33.4		37.3		33.3		35.7		35.5		38.0		32.4		38.0
	<i>CI lower bound</i>		29.1		31.8		26.2		28.2		32.2		33.7		27.1		33.1
Discussions with Diverse Others	<i>Mean</i>		46.3		44.9		41.2		41.6		45.6		46.6		41.9		42.9
	<i>n</i>		121		93		58		53		222		126		105		118
	<i>SD</i>		15.5		12.5		15.6		17.1		16.2		16.3		15.7		16.6
	<i>SE</i>		1.41		1.30		2.05		2.35		1.09		1.46		1.53		1.52
	<i>CI upper bound</i>		49.1		47.5		45.2		46.2		47.8		49.4		44.9		45.9
	<i>CI lower bound</i>		43.5		42.4		37.2		37.0		43.5		43.7		38.9		39.9

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).

NSSE 2020 Multi-Year Report

Detailed Statistics: Engagement Indicators and Additional Items

Brenau University

		First-year students							Seniors								
		2013	2014	2015	2016	2017	2018	2019	2020	2013	2014	2015	2016	2017	2018	2019	2020
<i>Experiences with Faculty</i>																	
Student-Faculty Interaction	<i>Mean</i>		19.9		25.0		25.0		22.3		21.6		24.9		19.7		27.2
	<i>n</i>		130		97		61		58		225		129		109		130
	<i>SD</i>		14.8		15.4		16.3		15.0		16.0		16.3		15.4		15.9
	<i>SE</i>		1.30		1.57		2.09		1.97		1.07		1.44		1.47		1.39
	<i>CI upper bound</i>		22.5		28.1		29.1		26.2		23.7		27.7		22.6		30.0
	<i>CI lower bound</i>		17.4		21.9		20.9		18.4		19.5		22.1		16.8		24.5
Effective Teaching Practices	<i>Mean</i>		40.6		39.1		40.2		37.8		40.7		40.4		37.0		39.8
	<i>n</i>		130		98		62		54		232		134		109		126
	<i>SD</i>		14.0		14.4		13.3		15.4		14.8		14.0		14.1		14.6
	<i>SE</i>		1.23		1.45		1.69		2.10		.97		1.21		1.35		1.30
	<i>CI upper bound</i>		43.0		41.9		43.5		41.9		42.6		42.8		39.7		42.4
	<i>CI lower bound</i>		38.2		36.3		36.9		33.6		38.7		38.0		34.4		37.3
<i>Campus Environment</i>																	
Quality of Interactions	<i>Mean</i>		42.4		42.5		40.7		41.3		44.2		46.8		42.6		44.9
	<i>n</i>		117		88		56		50		216		130		100		112
	<i>SD</i>		12.3		14.6		13.0		12.4		12.3		11.2		12.9		11.3
	<i>SE</i>		1.14		1.55		1.74		1.76		.84		.99		1.29		1.07
	<i>CI upper bound</i>		44.6		45.5		44.1		44.7		45.8		48.7		45.1		47.0
	<i>CI lower bound</i>		40.1		39.4		37.3		37.8		42.6		44.8		40.1		42.8
Supportive Environment	<i>Mean</i>		38.4		40.7		35.4		34.5		30.6		34.3		29.0		33.4
	<i>n</i>		108		87		56		50		210		123		99		115
	<i>SD</i>		14.1		14.1		14.5		14.9		17.6		15.3		16.0		15.1
	<i>SE</i>		1.36		1.52		1.93		2.10		1.21		1.38		1.61		1.41
	<i>CI upper bound</i>		41.1		43.7		39.2		38.6		33.0		37.1		32.1		36.1
	<i>CI lower bound</i>		35.7		37.7		31.7		30.4		28.2		31.6		25.8		30.6

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).

		First-year students							Seniors								
		2013	2014	2015	2016	2017	2018	2019	2020	2013	2014	2015	2016	2017	2018	2019	2020
Service-Learning^a	%		70		57		55		81		61		74		58		67
	<i>n</i>		118		90		60		52		222		130		105		116
	<i>SE</i>		4.3		5.2		6.5		5.6		3.3		3.8		4.8		4.4
	<i>CI upper bound (%)</i>		78		68		68		91		68		82		68		76
	<i>CI lower bound (%)</i>		61		47		43		70		55		67		49		58
Learning Community^a	%		11		16		3		10		26		34		18		23
	<i>n</i>		119		90		60		52		222		130		104		117
	<i>SE</i>		2.8		3.9		2.3		4.2		2.9		4.2		3.8		3.9
	<i>CI upper bound (%)</i>		16		23		8		18		31		42		26		31
	<i>CI lower bound (%)</i>		5		8		0		2		20		26		11		15
Research with Faculty^a	%		7		8		3		4		14		14		6		14
	<i>n</i>		119		90		59		51		221		130		103		117
	<i>SE</i>		2.3		2.8		2.3		2.8		2.3		3.0		2.3		3.3
	<i>CI upper bound (%)</i>		11		13		8		10		19		20		10		21
	<i>CI lower bound (%)</i>		2		2		0		0		10		8		1		8
Internship or Field Experience^b	%		82		84		78		63		47		56		45		52
	<i>n</i>		119		91		60		52		223		130		104		118
	<i>SE</i>		3.5		3.8		5.4		6.8		3.4		4.4		4.9		4.6
	(First-year results: Plan to do) <i>CI upper bound (%)</i>		89		92		89		76		54		65		54		61
	<i>CI lower bound (%)</i>		75		77		67		49		41		48		35		43
Study Abroad^b	%		35		43		42		47		8		7		7		9
	<i>n</i>		120		90		60		52		223		130		104		117
	<i>SE</i>		4.4		5.2		6.4		7.0		1.8		2.2		2.5		2.7
	(First-year results: Plan to do) <i>CI upper bound (%)</i>		44		53		55		61		11		11		12		14
	<i>CI lower bound (%)</i>		27		32		30		34		4		3		2		4
Culminating Senior Experience^b	%		67		67		57		51		53		45		35		33
	<i>n</i>		116		90		59		52		222		129		104		117
	<i>SE</i>		4.4		5.0		6.5		7.0		3.4		4.4		4.7		4.4
	(First-year results: Plan to do) <i>CI upper bound (%)</i>		76		77		70		64		60		54		44		41
	<i>CI lower bound (%)</i>		59		57		45		37		46		37		26		24
Overall HIP Participation^c																	
Participated in one HIP	%		60		52		54		67		29		24		35		31
	<i>n</i>		121		90		61		52		223		130		105		119
	<i>SE</i>		4.5		5.3		6.4		6.6		3.0		3.8		4.7		4.3
	<i>CI upper bound (%)</i>		69		62		67		80		35		31		44		40
	<i>CI lower bound (%)</i>		51		42		42		54		23		17		26		23
Participated in two or more HIPs	%		11		13		3		14		58		65		47		57
	<i>n</i>		121		90		61		52		223		130		105		119
	<i>SE</i>		2.9		3.6		2.3		4.9		3.3		4.2		4.9		4.6
	<i>CI upper bound (%)</i>		17		20		8		23		64		73		57		66
	<i>CI lower bound (%)</i>		6		6		0		4		51		56		38		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 ($p \pm 1.96 * SE$).

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.