

**Appalachian State University** 

Prepared 2022-09-23



#### **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**

#### **Appalachian State University**

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	its		Seniors									
Response rate <sup>a</sup>	Sampling error <sup>b</sup>	Total respondents <sup>c</sup>	Full completions	Partial completions	Response rate <sup>a</sup>	Sampling error <sup>b</sup>	Total respondents <sup>c</sup>	Full completions	Partial completions					
14%	+/- 4.4%	424	327	97	16%	+/- 4.6%	388	287	101					
28%	+/- 2.4%	1,169	952	217	25%	+/- 2.5%	1,188	987	201					
23%	+/- 2.8%	961	681	280	24%	+/- 2.8%	947	755	192					
	28%	Response rate <sup>a</sup> Sampling error <sup>b</sup> 14% +/- 4.4%  28% +/- 2.4%	Response rate <sup>a</sup> Sampling error <sup>b</sup> Total respondents <sup>c</sup> 14%         +/- 4.4%         424           28%         +/- 2.4%         1,169	Total Full completions  14% +/- 4.4% 424 327  28% +/- 2.4% 1,169 952	Total Full Partial completions  14% +/- 4.4% 424 327 97  28% +/- 2.4% 1,169 952 217	Total Full Partial completions completions  14% +/- 4.4% 424 327 97 16%  28% +/- 2.4% 1,169 952 217 25%	Total Full Partial completions Completions Response rate Sampling error Sampling error Partial completions Partial completions Partial Response rate Sampling error Partial Response rate Partial Resp	Response rate <sup>a</sup> Sampling error <sup>b</sup> respondents <sup>c</sup> completions completions completions Response rate <sup>a</sup> Sampling error <sup>b</sup> respondents <sup>c</sup> 14% +/- 4.4% 424 327 97 16% +/- 4.6% 388  28% +/- 2.4% 1,169 952 217 25% +/- 2.5% 1,188	Total Full completions Response rate Sampling error Sampling error A44% A24 327 97 16% +/- 4.6% 388 287  28% +/- 2.4% 1,169 952 217 25% +/- 2.5% 1,188 987					

#### **Administration Details by Participation Year**

			Incentives		Report Sample		
Year	Recruitment method	Sample type	offered	Additional question sets	identified <sup>d</sup>	BCSSE	FSSE
2013							
2014							
2015	Email	Census	No	Global Perspectives, Sustainability Education Consortium	No	No	No
2016							
2017							
2018	Email	Census	Yes	Academic Advising, Global Learning	No	No	No
2019							
2020							
2021							
2022	Email	Census	Yes	Online Learning, HIP Quality	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.

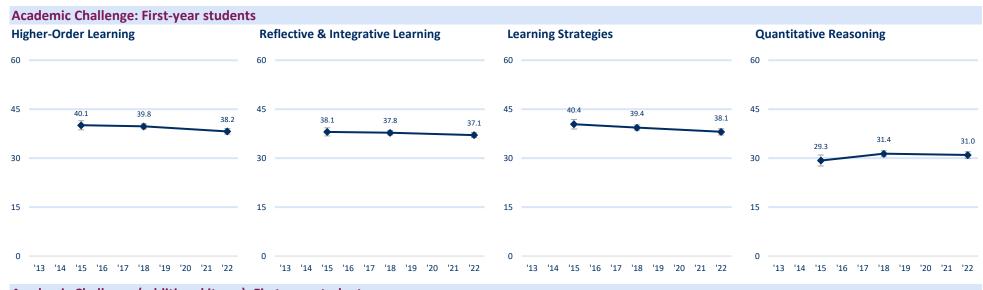
d. Starting in 2017, institutions had the option to flag a subset of students for exclusion from reports. Refer to your Administration Summary reports.

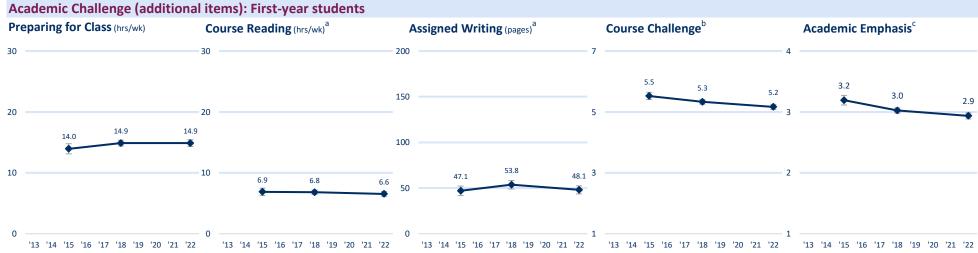


#### **Engagement Results by Theme**

### **Appalachian State University**

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.





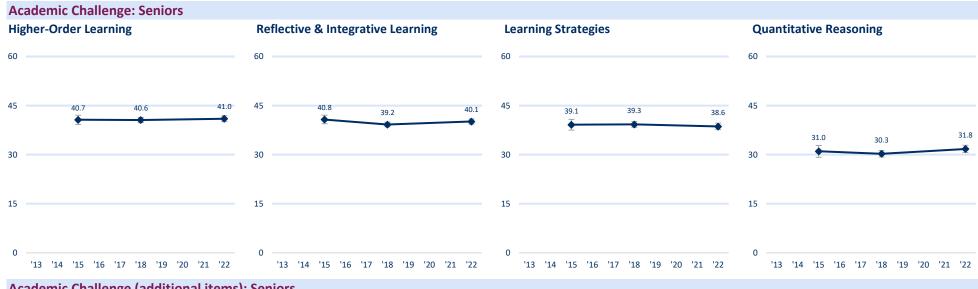
- a. Values for Course Reading and Assigned Writing are estimates calculated from two or more survey questions.
- b. Extent to which courses challenged students to do their best work (1 = "Not at all" to 7 = "Very much").
- c. How much students said the institution emphasizes spending significant time studying and on academic work (1 = "Very little," 2 = "Some," 3 = "Quite a bit," and 4 = "Very much").

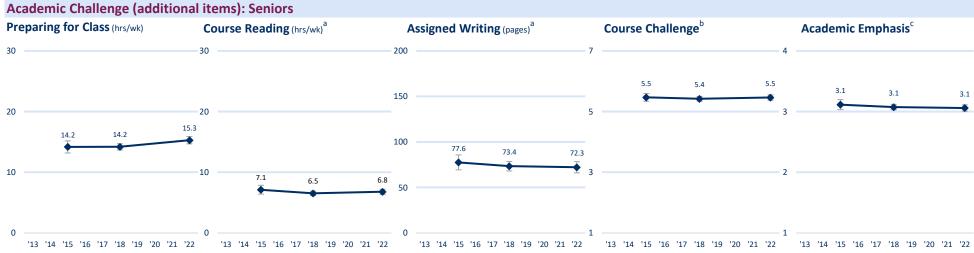


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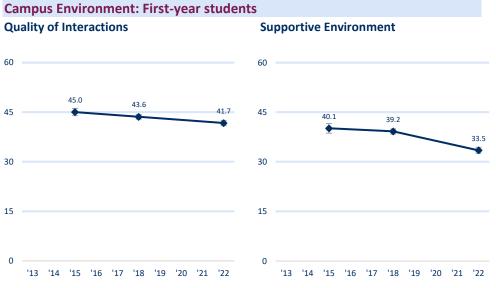


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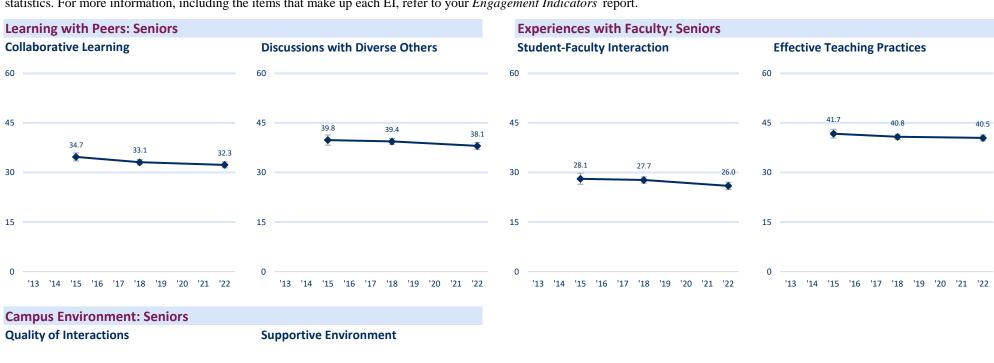


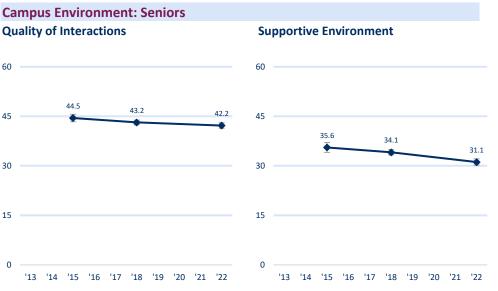


**Engagement Results by Theme** 

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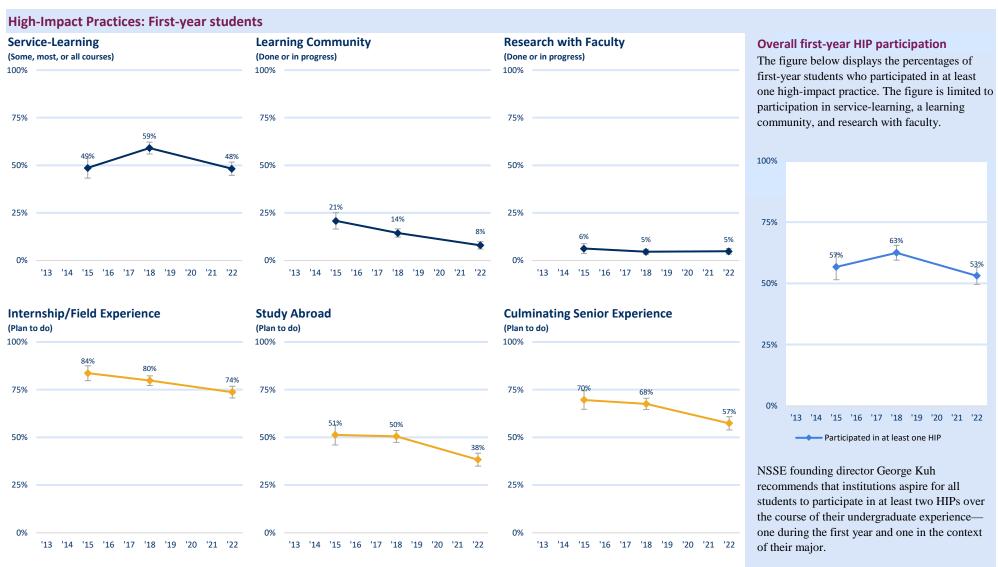




#### **High-Impact Practices**

### **Appalachian State University**

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.

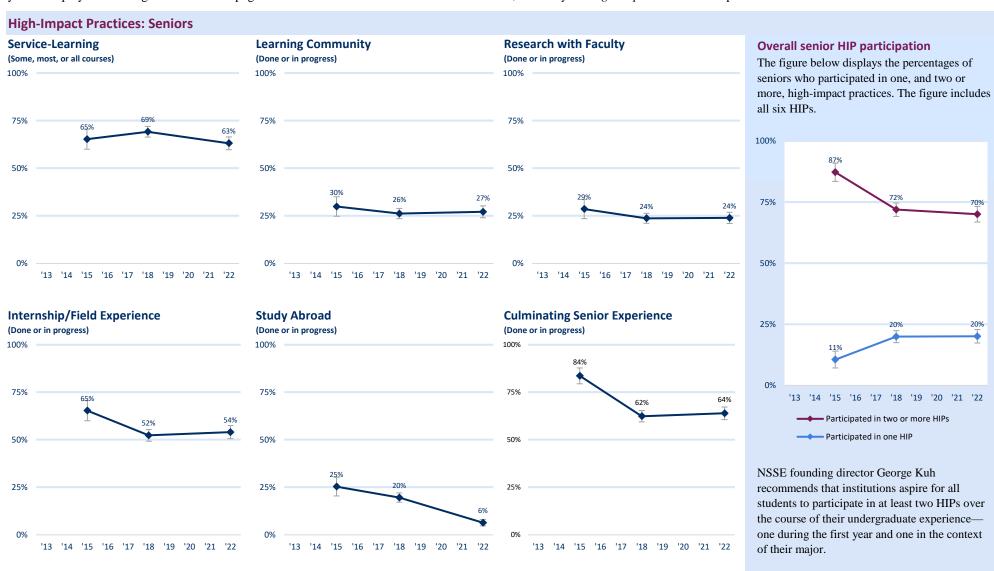




**High-Impact Practices** 

### **Appalachian State University**

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#### **Detailed Statistics: Engagement Indicators and Additional Items**

### **Appalachian State University**

Academic Challenge Higher-Order Learning	Mean n SD	'13		'15	'16	'17 '18	'19	'20	124		1	14.4								
Higher-Order	n		,					20	'21	'22	'13	'14	'15	'16	'17	'18	'19	'20	'21	'22
•	n		,																	
Learning			-	40.1		39.8				38.2			40.7			40.6				41.0
8	SD			354		1,017				832			325			1,056				836
			1	13.3		12.4				12.6			12.9			13.2				13.3
	SE			.70		.39				.44			.72			.41				.46
	CI upper bound		4	41.5		40.5				39.0			42.1			41.4				41.9
	CI lower bound		3	38.7		39.0				37.3			39.2			39.8				40.1
Reflective &	Mean			38.1		37.8				37.1			40.8			39.2				40.1
Integrative	n			375		1,086				885			338			1,112				883
Learning	SD			12.2		11.6				11.5			12.2			11.9				12.2
Learning	SE			.63		.35				.39			.66			.36				.41
	CI upper bound		3	39.3		38.5				37.8			42.1			39.9				41.0
	CI lower bound			36.8		37.1				36.3			39.5			38.5				39.3
<b>Learning Strategies</b>	Mean		4	40.4		39.4				38.1			39.1			39.3				38.6
	n			344		983				790			301			1,019				803
	SD		1	13.8		13.3				13.5			14.5			13.9				14.3
	SE			.74		.43				.48			.84			.44				.50
	CI upper bound		4	41.8		40.2				39.0			40.8			40.1				39.6
	CI lower bound			38.9		38.5				37.1			37.5			38.4				37.7
Quantitative	Mean		2	29.3		31.4				31.0			31.0			30.3				31.8
Reasoning	n			363		997				796			330			1,022				808
	SD		1	16.5		14.7				14.8			16.7			16.1				16.0
	SE			.86		.47				.53			.92			.50				.56
	CI upper bound		3	31.0		32.3				32.0			32.8			31.3				32.9
	CI lower bound		2	27.6		30.4				29.9			29.2			29.3				30.6
Academic Challenge (ad	ditional items	s)																		
<b>Preparing for Class</b>	Mean		1	14.0		14.9				14.9			14.2			14.2				15.3
(hours/week)	n			323		973				767			290			1,001				792
(,	SD			7.6		7.6				7.7			8.7			8.4				8.7
	SE			.42		.24				.28			.51			.27				.31
	CI upper bound		1	14.8		15.4				15.4			15.2			14.7				15.9
	CI lower bound		1	13.1		14.4				14.4			13.2			13.7				14.7
Course Reading	Mean			6.9		6.8				6.6			7.1			6.5				6.8
Est. hrs per week	n			321		968				764			288			992				784
calculated from two	SD			5.6		5.5				5.5			6.3			5.9				6.0
items.	SE			.31		.18				.20			.37			.19				.22
	CI upper bound			7.5		7.2				6.9			7.9			6.9				7.2
	CI lower bound			6.3		6.5				6.2			6.4			6.2				6.4

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: Engagement Indicators and Additional Items**

**Appalachian State University** 

					Firs	t-yea	r studen	ts		-	Seniors										
		'13	'14	'15	'16	'1	7 '18	'19	'20	'21	'22	'13	'14	'15	'16	'17	'18	'19	'20	'21	'22
Academic Challenge (a	dditional items	, continu	ied)																		
Assigned Writing	Mean			47.1			53.8				48.1			77.6			73.4				72.3
Estimated number of	n			321			998				797			294			1,025				805
pages calculated from	SD			46.9			74.0				63.7			71.0			84.2				89.8
three survey questions.	SE			2.61			2.34				2.26			4.14			2.63				3.16
	CI upper bound			52.2			58.4				52.5			85.7			78.5				78.5
	CI lower bound			42.0			49.2				43.7			69.5			68.2				66.1
Course Challenge	Mean			5.5			5.3				5.2			5.5			5.4				5.5
Extent to which courses	n			344			984				788			308			1,016				806
challenged students to	SD			1.1			1.2				1.2			1.2			1.2				1.2
do best work (1="Not	SE			.06			.04				.04			.07			.04				.04
at all" to 7="Very	CI upper bound			5.6			5.4				5.3			5.6			5.5				5.5
much").	CI lower bound			5.4			5.3				5.1			5.3			5.3				5.4
Academic	Mean			3.2			3.0				2.9			3.1			3.1				3.1
Emphasis	n			329			981				778			293			1,015				795
Perceived inst'l emphasis	SD			0.7			0.7				0.7			0.7			0.7				0.8
on spending significant	SE			.04			.02				.03			.04			.02				.03
time studying and on	CI upper bound			3.3			3.1				3.0			3.2			3.1				3.1
academic work (1 = "Very little" to 4 = "Very much").	CI lower bound			3.1			3.0				2.9			3.0			3.0				3.0
Learning with Peers																					
Collaborative	Mean			30.3			31.9				27.5			34.7			33.1				32.3
Learning	n			395			1,125				940			364			1,144				915
2001111116	SD			13.2			13.0				12.6			11.9			14.0				13.9
	SE			.66			.39				.41			.62			.41				.46
	CI upper bound			31.6			32.6				28.3			35.9			33.9				33.2
	CI lower bound			29.0			31.1				26.7			33.5			32.3				31.4
Discussions with	Mean			41.5			41.4				39.6			39.8			39.4				38.1
Diverse Others	n			343			991				799			309			1,020				800
Diverse Officis	SD			14.2			14.4				14.4			13.8			14.6				14.7
	SE			.77			.46				.51			.78			.46				.52
	CI upper bound			43.0			42.3				40.6			41.3			40.3				39.1
	CI lower bound			40.0			40.5				38.6			38.3			38.5				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).



#### **Detailed Statistics: Engagement Indicators and Additional Items**

### **Appalachian State University**

					First-	year s	student	S								Seniors						
		'13	'14	'15	'16	'17	'18	'19	'20	'21	'22	'13	'14	'15	'16	'17	'18	'19	'20	'21	'2	
Experiences with Facu	ulty										_											
Student-Faculty	Mean			21.8			24.1				21.0			28.1			27.7				26	
Interaction	n			369			1,048				862			332			1,084				86	
	SD			14.3			14.2				14.6			15.6			15.9				16	
	SE			.74			.44				.50			.86			.48				.5	
	CI upper bound			23.2			24.9				22.0			29.8			28.7				27	
	CI lower bound			20.3			23.2				20.0			26.4			26.8				24	
Effective Teaching	Mean			41.5			39.6				37.7			41.7			40.8				40	
Practices	n			363			1,022				835			332			1,054				83	
	SD			12.7			12.4				13.2			12.4			12.5				13	
	SE			.66			.39				.46			.68			.38				.4	
	CI upper bound			42.8			40.4				38.6			43.1			41.5				41	
	CI lower bound			40.2			38.9				36.8			40.4			40.0				39	
Campus Environment																						
Quality of	Mean			45.0			43.6				41.7			44.5			43.2				42.	
Interactions	n			338			973				760			302			957				74	
	SD			10.2			11.1				10.9			9.9			11.1				11	
	SE			.55			.35				.39			.57			.36				.4	
	CI upper bound			46.1			44.3				42.5			45.6			43.9				43	
	CI lower bound			44.0			42.9				41.0			43.4			42.5				41	
Supportive	Mean			40.1			39.2				33.5			35.6			34.1				31.	
Environment	n			328			977				770			288			1,009				78	
	SD			13.6			12.4				12.7			13.1			13.1				13	
	SE			.75			.40				.46			.77			.41				.4	
	CI upper bound			41.6			40.0				34.4			37.1			34.9				32	
	CI lower bound			38.7			38.4				32.6			34.1			33.3				30	

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** 

**Appalachian State University** 

3 2101010111 0118									, .L	- 1- 31.61			•	,							
					First-year stude											Seni	ors				
		'13	'14	'15	'16	'17	'18	'19	'20	'21	'22	'13	'14	'15	'16	'17	'18	'19	'20	'21	'22
Service-Learning <sup>a</sup>	%			49			59				48			65			69				63
•	n			340			971				779			308			1,015				795
	SE			2.7			1.6				1.8			2.7			1.5				1.7
	CI upper bound (%)			54			62				52			71			72				66
	CI lower bound (%)			43			56				45			60			66				60
<b>Learning Community</b> <sup>a</sup>	%			21			14				8			30			26				27
	n SE			345 2.2			980 1.1				780 1.0			305 2.6			1,017 1.4				799 1.6
	CI upper bound (%)			2.2 25			1.1 17				1.0			2.6 35			1.4 29				30
	CI lower bound (%)			25 17			17				6			35 25			29				24
Barrier 1916	%			6			5				<u>_</u>			25 <b>29</b>			23 <b>24</b>				24
Research with	n			344			984				780			305			1,017				799
Faculty <sup>a</sup>	SE			1.3			0.7				0.8			2.6			1.3				1.5
	CI upper bound (%)			9			6				6			34			26				27
	CI lower bound (%)			4			3				3			23			21				21
Internship or Field	%			84			80				74	-		65			52				54
	n			346			986				788			307			1,018				803
<b>Experience</b> <sup>b</sup>	SE			2.0			1.3				1.6			2.7			1.6				1.8
	CI upper bound (%)			88			82				77			71			55				57
do)	CI lower bound (%)			80			77				71			60			49				51
Study Abroad <sup>b</sup>	%			51			50				38			25			20				6
	n			346			982				785			304			1,016				802
(First-year results: Plan to	SE			2.7			1.6				1.7			2.5			1.2				0.9
do)	CI upper bound (%)			57			54				42			30			22				8
	CI lower bound (%)			46			47				35			20			17				5
<b>Culminating Senior</b>	%			70			68				57			84			62				64
Experience	n			343			983				784			305			1,016				799
•	SE			2.5			1.5				1.8			2.1			1.5				1.7
(First-year results: Plan to	CI upper bound (%)			74			70				61			88			65				67
do)	CI lower bound (%)			65			65				54			79			59				61
<b>Overall HIP Participation</b>	on <sup>c</sup>																				
Participated in one	%			41			49				46			11			20				20
HIP	n			346			987				785			310			1,022				803
	SE			2.6			1.6				1.8			1.7			1.3				1.4
	CI upper bound (%)			46			52				50			14			22				23
	CI lower bound (%)			36			46				43			7			17				17
Participated in two	%			16			13				7			87			72				70
or more HIPs	n			346			987				785			310			1,022				803
	SE			2.0			1.1				0.9			1.9			1.4				1.6
	CI upper bound (%)			19			15				9			91			75				73
	CI lower bound (%)			12			11				5			83			69				67

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).

IPEDS: 197869

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.