
Shippensburg University of Pennsylvania

NSSE 2016 Major Field Report, Part II

Comparisons to Other Institutions

Bio, Agric, & Nat Res

*Comparing your students majoring in the fields shown below to those
in the same fields at your comparison group institutions*

The Major Field Report group 'Bio, Agric, & Nat Res' includes the following majors: Biology (general); Agriculture; Biochemistry or biophysics; Biomedical science; Botany; Cell and molecular biology; Environmental science/studies; Marine science; Microbiology or bacteriology; Natural resources and conservation; Natural science; Neuroscience; Physiology and developmental biology; Zoology; Other agriculture and natural resources; Other biological sciences.

Note:

The Major Field Report was formatted for printing. When viewing on screen in Excel, some content may appear truncated or oddly formatted. This is normal. Increasing the zoom level or viewing the report in Print Preview will improve on-screen display.

About Your Major Field Report, Part II

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 subpopulations such as major. This report displays selected results for students at your institution and at your selected comparison institutions in the major category: Bio, Agric, & Nat Res.

NSSE results included in MFR, Part II

- Engagement Indicators
- High-Impact Practices
- Frequencies and Statistical Comparisons
- Respondent Profile

Related-Major Groups

Self-reported majors (first major given if two were reported) were identified from the survey. Your institution had the option to customize how these were grouped, using up to ten related-major groups. Institutions choosing not to customize their related-major groups receive NSSE's ten default groups. The majors used in this report are listed on the cover page of this report.

Sample

This report is based on information from all randomly selected or census-administered students in the indicated group of majors for both your institution and your comparison institutions. Targeted and locally administered oversamples and other non-randomly selected students are not included.

Class

Results are presented separately by institution-reported class level. Keep in mind that majors are student-reported. First-year students may report *intended* majors that have not yet been *declared*. Also, much of the first-year experience may take place outside of the major field. For these reasons, first-year results should be interpreted with caution.

Technical Requirements

Related-major groups with fewer than 20 respondents in a given class are not reported (columns are blank). Comparison groups must also contain at least 20 respondents in the major category, or they remain blank. Although 20 is a minimum requirement, keep in mind that any statistical result requires a sufficient number of respondents per group to produce a reliable estimate. Due to the disaggregation of results by student-reported major, the Major Field Report results are unweighted.

Report Sections

Engagement Indicators (pp. 3-7)	Results on NSSE's ten Engagement Indicators (EIs) organized into four themes. See your <i>Engagement Indicators</i> report for more details.
High-Impact Practices (p. 8)	Results on student participation in six High-Impact Practices (HIPs). See your <i>High-Impact Practices</i> report for more details.
Frequencies and Statistical Comparisons (pp. 9-44)	Response frequencies and statistical comparisons (including tests of significance and effect sizes) for all survey items except the demographics for your institution and your three core comparison groups.
Respondent Profile (pp. 45-51)	Response frequencies for all demographic questions for your institution and your three core comparison groups.

Engagement Indicators: Overview

Engagement Indicators are summary measures based on sets of NSSE questions examining key dimensions of student engagement. The ten indicators are organized within four themes: Academic Challenge, Learning with Peers, Experiences with Faculty, and Campus Environment. The tables below compare average scores^a for your students in this related-major category with students in your comparison groups within the same category.

Use the following key:

- ▲ **Your students' average** was significantly higher ($p < .05$) with an effect size at least .3 in magnitude.
- △ **Your students' average** was significantly higher ($p < .05$) with an effect size less than .3 in magnitude.
- No significant difference.
- ▼ **Your students' average** was significantly lower ($p < .05$) with an effect size less than .3 in magnitude.
- ▽ **Your students' average** was significantly lower ($p < .05$) with an effect size at least .3 in magnitude.

Theme	Engagement Indicator	First-Year Students in Bio, Agric, & Nat Res			Seniors in Bio, Agric, & Nat Res		
		Your first-year students compared with PASSHE	Your first-year students compared with Carnegie Class	Your first-year students compared with NSSE 2015 & 2016	Your seniors compared with PASSHE	Your seniors compared with Carnegie Class	Your seniors compared with NSSE 2015 & 2016
Academic Challenge	Higher-Order Learning	--	--	--			
	Reflective & Integrative Learning	--	--	--			
	Learning Strategies	▽	▽	▽			
	Quantitative Reasoning	--	--	--			
Learning with Peers	Collaborative Learning	▲	--	--			
	Discussions with Diverse Others	--	--	--			
Experiences with Faculty	Student-Faculty Interaction	--	--	--			
	Effective Teaching Practices	--	▽	--			
Campus Environment	Quality of Interactions	--	--	--			
	Supportive Environment	--	--	--			

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Engagement Indicators: Bio, Agric, & Nat Res

Shippensburg University of Pennsylvania

First-year students^a in Bio, Agric, & Nat Res

	Mean statistics			Percentile ^d scores					Comparison results			
	Mean	SD ^b	SEM ^c	5th	25th	50th	75th	95th	Deg. of freedom ^e	Mean diff.	Sig. ^f	Effect size ^g
Academic Challenge												
Higher-Order Learning												
SHIP (N = 24)	39.0	14.9	3.04	10	35	40	50	60				
PASSHE	39.8	14.0	.83	15	30	40	50	60	307	-.9		-.062
Carnegie Class	40.5	13.6	.21	20	30	40	50	60	4,109	-1.6		-.115
NSSE 2015 & 2016	40.5	13.4	.10	20	30	40	50	60	17,846	-1.5		-.111
Reflective & Integrative Learning												
SHIP (N = 24)	36.3	13.8	2.82	17	27	39	46	54				
PASSHE	34.4	12.5	.73	14	26	34	43	57	316	1.9		.149
Carnegie Class	35.6	12.3	.19	17	26	34	43	60	4,190	.7		.054
NSSE 2015 & 2016	35.8	12.1	.09	17	29	34	43	60	18,252	.5		.041
Learning Strategies												
SHIP (N = 24)	32.8	15.8	3.23	13	20	27	43	60				
PASSHE	40.6	13.9	.82	20	33	40	53	60	310	-7.8	**	-.558
Carnegie Class	40.9	13.6	.21	20	33	40	53	60	4,121	-8.2	**	-.598
NSSE 2015 & 2016	40.8	13.7	.10	20	33	40	53	60	17,995	-8.0	**	-.581
Quantitative Reasoning												
SHIP (N = 24)	30.6	15.3	3.13	7	20	27	40	60				
PASSHE	28.9	16.0	.93	0	20	27	40	60	317	1.6		.101
Carnegie Class	30.3	15.6	.24	7	20	27	40	60	4,171	.2		.015
NSSE 2015 & 2016	30.7	15.4	.11	7	20	27	40	60	18,150	-.1		-.009
Learning with Peers												
Collaborative Learning												
SHIP (N = 24)	40.6	16.7	3.41	5	30	45	55	60				
PASSHE	34.4	14.5	.85	15	25	35	45	60	314	6.2	*	.425
Carnegie Class	35.3	14.0	.22	15	25	35	45	60	4,131	5.3		.377
NSSE 2015 & 2016	36.1	13.9	.10	15	25	35	45	60	17,997	4.6		.329
Discussions with Diverse Others												
SHIP (N = 24)	39.0	19.9	4.06	0	30	43	55	60				
PASSHE	40.4	16.3	.95	10	30	40	55	60	314	-1.4		-.084
Carnegie Class	40.8	15.6	.24	15	30	40	55	60	4,153	-1.9		-.120
NSSE 2015 & 2016	41.5	15.3	.11	15	30	40	55	60	18,102	-2.6		-.169

NSSE 2016 Major Field Report, Part II: Comparisons to Other Institutions

Engagement Indicators: Bio, Agric, & Nat Res

Shippensburg University of Pennsylvania

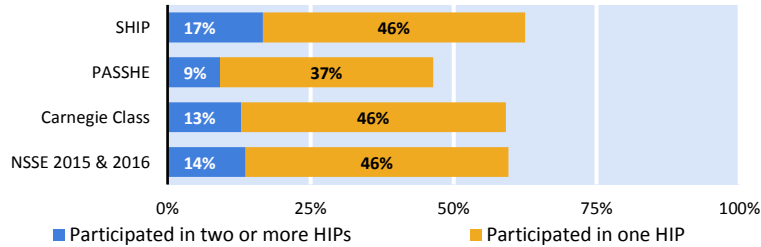
First-year students^a in Bio, Agric, & Nat Res

	Mean statistics			Percentile ^d scores					Comparison results			
	Mean	SD ^b	SEM ^c	5th	25th	50th	75th	95th	Deg. of freedom ^e	Mean diff.	Sig. ^f	Effect size ^g
Experiences with Faculty												
Student-Faculty Interaction												
SHIP (N = 24)	16.5	13.1	2.67	0	5	18	30	35				
PASSHE	21.8	14.6	.86	0	10	20	30	50	312	-5.3		-.365
Carnegie Class	22.2	14.7	.23	0	10	20	30	50	4,149	-5.7		-.390
NSSE 2015 & 2016	22.0	14.7	.11	0	10	20	30	50	18,048	-5.5		-.377
Effective Teaching Practices												
SHIP (N = 24)	33.0	16.4	3.34	8	20	32	44	60				
PASSHE	38.4	12.7	.74	20	32	40	48	60	25	-5.4		-.413
Carnegie Class	40.5	12.8	.20	20	32	40	52	60	4,203	-7.5	**	-.584
NSSE 2015 & 2016	39.8	12.8	.09	20	32	40	48	60	23	-6.8		-.531
Campus Environment												
Quality of Interactions												
SHIP (N = 23)	37.6	15.9	3.32	8	28	40	50	58				
PASSHE	40.7	12.2	.73	18	33	44	50	60	304	-3.1		-.251
Carnegie Class	42.0	12.4	.20	20	34	44	50	60	4,064	-4.4		-.354
NSSE 2015 & 2016	42.0	11.9	.09	20	35	44	50	60	22	-4.5		-.373
Supportive Environment												
SHIP (N = 24)	36.1	16.3	3.32	15	21	38	49	60				
PASSHE	34.4	13.5	.79	13	25	35	45	60	316	1.8		.130
Carnegie Class	37.8	13.7	.21	15	28	38	48	60	4,177	-1.6		-.118
NSSE 2015 & 2016	38.2	13.5	.10	15	29	40	48	60	18,128	-2.1		-.152

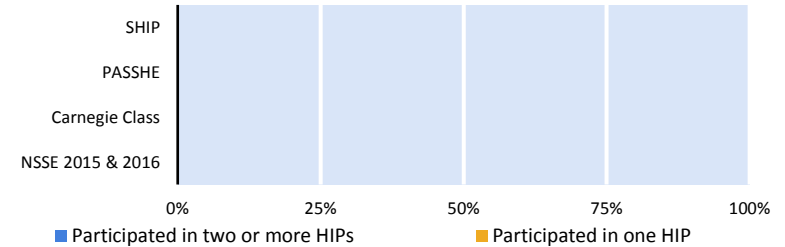
Overall HIP Participation^a

The figures below display the percentage^h of students who participated in High-Impact Practices. Both figures include participation in a learning community, service-learning, and research with faculty. The Senior figure also includes participation in an internship or field experience, study abroad, and culminating senior experience. The first segment in each bar shows the percentage of students who participated in at least two HIPs, and the full bar (both colors) represents the percentage who participated in at least one.

First-Year Students in Bio, Agric, & Nat Res



Seniors in Bio, Agric, & Nat Res



Statistical Comparisons^a

The table below compares the percentage^h of your students who participated in a High-Impact Practice, including the percentage who participated overall (at least one, two or more), with those at institutions in your comparison groups.

	SHIP		PASSHE		Carnegie Class		NSSE 2015 & 2016	
	%	Effect size ^j	% ⁱ	Effect size ^j	% ⁱ	Effect size ^j	% ⁱ	Effect size ^j
<i>First-Year Students in Bio, Agric, & Nat Res</i>								
11c. Learning community	33	.46	14 *	.46	16 *	.42	17 *	.39
12. Service-learning	46	.20	36	.20	51	-.11	50	-.09
11e. Research with faculty	4	-.09	6	-.09	7	-.11	8	-.16
Participated in at least one	63	.32	46	.32	59	.07	60	.06
Participated in two or more	17	.23	9	.23	13	.11	14	.09
<i>Seniors in Bio, Agric, & Nat Res</i>								
11c. Learning community								
12. Service-learning								
11e. Research with faculty								
11a. Internship or field exp.								
11d. Study abroad								
11f. Culminating senior exp.								
Participated in at least one								
Participated in two or more								

NSSE 2016 Major Field Report, Part II: Comparisons to Other Institutions

Frequencies and Statistical Comparisons: Bio, Agric, & Nat Res

Shippensburg University of Pennsylvania

First-Year Students^a in Bio, Agric, & Nat Res

				Frequency Distributions								Statistical Comparisons ^k							
				SHIP		PASSHE		Carnegie Class		NSSE 2015 & 2016		SHIP		Your first-year students compared with					
Item wording or description	Variable name ^l	Values ^m	Response options	Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size ⁿ		Mean	Effect size ⁿ		
														Mean	Effect size ⁿ		Mean	Effect size ⁿ	
1. During the current school year, about how often have you done the following?																			
a. Asked questions or contributed to course discussions in other ways	askquest	1	Never	3	13	6	2	119	3	540	3	2.7	2.8	-.14	2.9	-.26	2.9	-.25	
		2	Sometimes	8	33	121	41	1,392	33	6,224	34								
		3	Often	7	29	97	33	1,516	36	6,514	36								
		4	Very often	6	25	69	24	1,155	28	5,011	27								
		Total		24	100	293	100	4,182	100	18,289	100								
b. Prepared two or more drafts of a paper or assignment before turning it in	drafts	1	Never	9	39	51	17	602	14	2,864	16	2.3	2.5	-.13	2.6	-.24	2.5	-.19	
		2	Sometimes	2	9	103	35	1,400	34	6,312	35								
		3	Often	7	30	91	31	1,323	32	5,534	30								
		4	Very often	5	22	50	17	849	20	3,506	19								
		Total		23	100	295	100	4,174	100	18,216	100								
c. Come to class without completing readings or assignments	unpreparedr <i>(Reverse-coded version of unprepared created by NSSE.)</i>	1	Very often	3	13	13	4	175	4	813	4	2.9	3.2	-.38	3.1	-.36	3.1	-.26	
		2	Often	2	8	27	9	389	9	2,061	11								
		3	Sometimes	14	58	152	52	2,283	55	10,344	57								
		4	Never	5	21	103	35	1,332	32	5,005	27								
		Total		24	100	295	100	4,179	100	18,223	100								
d. Attended an art exhibit, play or other arts performance (dance, music, etc.)	attendart	1	Never	10	42	123	42	1,510	36	6,164	34	1.8	1.8	-.09	1.9	-.20	2.0	-.25	
		2	Sometimes	11	46	116	39	1,736	42	7,681	42								
		3	Often	2	8	37	13	641	15	3,030	17								
		4	Very often	1	4	18	6	284	7	1,339	7								
		Total		24	100	294	100	4,171	100	18,214	100								
e. Asked another student to help you understand course material	CLaskhelp	1	Never	2	8	18	6	228	5	905	5	3.1	2.7 *	.44	2.8	.36	2.8	.33	
		2	Sometimes	2	8	114	39	1,470	35	6,221	34								
		3	Often	12	50	102	35	1,507	36	6,680	37								
		4	Very often	8	33	61	21	967	23	4,431	24								
		Total		24	100	295	100	4,172	100	18,237	100								
f. Explained course material to one or more students	CLexplain	1	Never	3	13	8	3	134	3	470	3	2.9	2.8	.11	2.9	.06	2.9	.02	
		2	Sometimes	3	13	100	34	1,322	32	5,587	31								
		3	Often	11	46	121	41	1,699	41	7,471	41								
		4	Very often	7	29	66	22	1,027	25	4,703	26								
		Total		24	100	295	100	4,182	100	18,231	100								

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Frequencies and Statistical Comparisons: Bio, Agric, & Nat Res

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First-Year Students^a in Bio, Agric, & Nat Res

				Frequency Distributions								Statistical Comparisons ^k							
				SHIP		PASSHE		Carnegie Class		NSSE 2015 & 2016		SHIP		Your first-year students compared with					
Item wording or description	Variable name ^l	Values ^m	Response options	Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size ⁿ	Mean	Effect size ⁿ	Mean	Effect size ⁿ	
																			Mean
g. Prepared for exams by discussing or working through course material with other students	CLstudy	1	Never	3	13	33	11	445	11	1,739	10	3.0	2.7	.35	2.7	.30	2.8	.25	
		2	Sometimes	5	21	111	38	1,371	33	5,829	32								
		3	Often	5	21	77	26	1,292	31	5,777	32								
		4	Very often	11	46	75	25	1,067	26	4,916	27								
		Total		24	100	296	100	4,175	100	18,261	100								
h. Worked with other students on course projects or assignments	CLproject	1	Never	1	4	21	7	247	6	962	5	3.1	2.7 *	.49	2.7 *	.46	2.8 *	.43	
		2	Sometimes	3	13	106	36	1,531	37	6,604	36								
		3	Often	12	50	107	36	1,494	36	6,642	36								
		4	Very often	8	33	60	20	898	22	4,032	22								
		Total		24	100	294	100	4,170	100	18,240	100								
i. Given a course presentation	present	1	Never	1	4	61	21	727	17	3,418	19	2.7	2.2 **	.59	2.3 *	.50	2.3 *	.52	
		2	Sometimes	8	33	141	48	1,994	48	8,603	47								
		3	Often	12	50	66	22	1,018	24	4,386	24								
		4	Very often	3	13	27	9	433	10	1,822	10								
		Total		24	100	295	100	4,172	100	18,229	100								
2. During the current school year, about how often have you done the following?																			
a. Combined ideas from different courses when completing assignments	RIintegrate	1	Never	3	13	20	7	286	7	1,115	6	2.6	2.7	-.05	2.6	-.03	2.7	-.05	
		2	Sometimes	8	33	114	39	1,612	39	7,046	39								
		3	Often	8	33	105	36	1,552	37	6,918	38								
		4	Very often	5	21	56	19	722	17	3,170	17								
		Total		24	100	295	100	4,172	100	18,249	100								
b. Connected your learning to societal problems or issues	RIsocietal	1	Never	3	13	36	12	354	9	1,441	8	2.6	2.5	.11	2.6	-.02	2.6	-.03	
		2	Sometimes	8	33	113	39	1,607	39	7,146	39								
		3	Often	9	38	108	37	1,534	37	6,623	36								
		4	Very often	4	17	36	12	666	16	2,985	16								
		Total		24	100	293	100	4,161	100	18,195	100								
c. Included diverse perspectives (political, religious, racial/ethnic, gender, etc.) in course discussions or assignments	RIDiverse	1	Never	6	25	58	20	433	10	1,724	9	2.6	2.4	.22	2.6	.03	2.6	.01	
		2	Sometimes	4	17	111	38	1,644	40	7,264	40								
		3	Often	8	33	84	29	1,395	34	6,224	34								
		4	Very often	6	25	41	14	683	16	2,973	16								
		Total		24	100	294	100	4,155	100	18,185	100								

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First-Year Students^a in Bio, Agric, & Nat Res

				Frequency Distributions								Statistical Comparisons ^k							
				SHIP		PASSHE		Carnegie Class		NSSE 2015 & 2016		SHIP		PASSHE		Carnegie Class		NSSE 2015 & 2016	
												Your first-year students compared with							
Item wording or description	Variable name ^l	Values ^m	Response options	Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size ⁿ	Mean	Effect size ⁿ	Mean	Effect size ⁿ	
d. Examined the strengths and weaknesses of your own views on a topic or issue	RIownview	1	Never	2	8	23	8	194	5	866	5	2.7	2.7	-.03	2.8	-.13	2.8	-.13	
		2	Sometimes	8	33	104	35	1,391	33	5,952	33								
		3	Often	10	42	106	36	1,729	42	7,786	43								
		4	Very often	4	17	60	20	844	20	3,580	20								
		Total		24	100	293	100	4,158	100	18,184	100								
e. Tried to better understand someone else's views by imagining how an issue looks from his or her perspective	RIperspect	1	Never	1	4	13	4	129	3	573	3	3.0	2.8	.23	2.9	.17	2.9	.17	
		2	Sometimes	4	17	90	31	1,198	29	5,145	28								
		3	Often	12	50	120	41	1,777	43	7,919	44								
		4	Very often	7	29	71	24	1,059	25	4,542	25								
		Total		24	100	294	100	4,163	100	18,179	100								
f. Learned something that changed the way you understand an issue or concept	RInewview	1	Never	2	8	7	2	125	3	519	3	3.0	2.8	.24	2.9	.21	2.9	.19	
		2	Sometimes	2	8	104	35	1,255	30	5,350	29								
		3	Often	13	54	110	38	1,797	43	7,916	44								
		4	Very often	7	29	72	25	983	24	4,389	24								
		Total		24	100	293	100	4,160	100	18,174	100								
g. Connected ideas from your courses to your prior experiences and knowledge	RIconnect	1	Never	1	4	4	1	48	1	207	1	3.2	3.1	.03	3.1	.08	3.1	.07	
		2	Sometimes	3	13	61	21	779	19	3,469	19								
		3	Often	11	46	118	40	2,010	48	8,560	47								
		4	Very often	9	38	110	38	1,316	32	5,915	33								
		Total		24	100	293	100	4,153	100	18,151	100								
3. During the current school year, about how often have you done the following?																			
a. Talked about career plans with a faculty member	SFcareer	1	Never	9	38	51	17	698	17	3,096	17	1.9	2.3 *	-0.46	2.3 *	-0.47	2.3 *	-0.46	
		2	Sometimes	10	42	128	44	1,893	45	8,378	46								
		3	Often	3	13	84	29	1,018	24	4,401	24								
		4	Very often	2	8	31	11	558	13	2,335	13								
		Total		24	100	294	100	4,167	100	18,210	100								
b. Worked with a faculty member on activities other than coursework (committees, student groups, etc.)	SFotherwork	1	Never	13	54	149	51	2,020	49	8,524	47	1.6	1.8	-.21	1.8	-.22	1.8	-.25	
		2	Sometimes	8	33	82	28	1,277	31	5,849	32								
		3	Often	3	13	40	14	583	14	2,492	14								
		4	Very often	0	0	22	8	279	7	1,307	7								
		Total		24	100	293	100	4,159	100	18,172	100								

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Frequencies and Statistical Comparisons: Bio, Agric, & Nat Res

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First-Year Students^a in Bio, Agric, & Nat Res

				Frequency Distributions								Statistical Comparisons ^k							
				SHIP		PASSHE		Carnegie Class		NSSE 2015 & 2016		SHIP		PASSHE		Carnegie Class		NSSE 2015 & 2016	
												Your first-year students compared with							
Item wording or description	Variable name ^l	Values ^m	Response options	Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size ⁿ	Mean	Effect size ⁿ	Mean	Effect size ⁿ	
e. Forming a new idea or understanding from various pieces of information	HOform	1	Very little	1	4	19	7	170	4	783	4	2.8	2.9	-.12	3.0	-.21	2.9	-.19	
		2	Some	8	33	70	24	1,007	24	4,487	25								
		3	Quite a bit	10	42	124	43	1,762	42	7,771	43								
		4	Very much	5	21	78	27	1,212	29	5,085	28								
		Total		24	100	291	100	4,151	100	18,126	100								
5. During the current school year, to what extent have your instructors done the following?																			
a. Clearly explained course goals and requirements	ETgoals	1	Very little	3	13	7	2	70	2	332	2	2.8	3.1	-.42	3.1	-.53	3.1	-.50	
		2	Some	7	29	55	19	703	17	3,185	17								
		3	Quite a bit	7	29	140	47	1,942	46	8,531	47								
		4	Very much	7	29	93	32	1,469	35	6,222	34								
		Total		24	100	295	100	4,184	100	18,270	100								
b. Taught course sessions in an organized way	ETorganize	1	Very little	2	8	7	2	107	3	484	3	2.8	3.0	-.30	3.1	-.39	3.1	-.37	
		2	Some	8	33	67	23	777	19	3,410	19								
		3	Quite a bit	7	29	130	44	1,898	45	8,464	46								
		4	Very much	7	29	91	31	1,392	33	5,878	32								
		Total		24	100	295	100	4,174	100	18,236	100								
c. Used examples or illustrations to explain difficult points	ETexample	1	Very little	3	13	9	3	101	2	457	3	2.8	3.1	-.29	3.2	-.40	3.1	-.39	
		2	Some	6	25	67	23	763	18	3,296	18								
		3	Quite a bit	7	29	107	36	1,693	41	7,620	42								
		4	Very much	8	33	111	38	1,608	39	6,831	38								
		Total		24	100	294	100	4,165	100	18,204	100								
d. Provided feedback on a draft or work in progress	ETdraftfb	1	Very little	5	21	27	9	266	6	1,375	8	2.5	2.8	-.33	2.9 *	-.49	2.8 *	-.41	
		2	Some	8	33	78	27	1,112	27	5,230	29								
		3	Quite a bit	6	25	128	44	1,555	37	6,645	36								
		4	Very much	5	21	60	20	1,235	30	4,961	27								
		Total		24	100	293	100	4,168	100	18,211	100								
e. Provided prompt and detailed feedback on tests or completed assignments	ETfeedback	1	Very little	4	17	38	13	290	7	1,500	8	2.4	2.6	-.22	2.8 *	-.46	2.8	-.38	
		2	Some	10	42	97	33	1,232	30	5,658	31								
		3	Quite a bit	6	25	95	32	1,545	37	6,755	37								
		4	Very much	4	17	63	22	1,088	26	4,265	23								
		Total		24	100	293	100	4,155	100	18,178	100								

NSSE 2016 Major Field Report, Part II: Comparisons to Other Institutions

Frequencies and Statistical Comparisons: Bio, Agric, & Nat Res

Shippensburg University of Pennsylvania

First-Year Students^a in Bio, Agric, & Nat Res

			Frequency Distributions								Statistical Comparisons ^k						
			SHIP		PASSHE		Carnegie Class		NSSE 2015 & 2016		SHIP		Your first-year students compared with				
Item wording or description	Variable name ^l	Values ^m	Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size ⁿ	Mean	Effect size ⁿ	Mean	Effect size ⁿ
b. Hold a formal leadership role in a student organization or group	leader <i>(Means indicate the percentage who responded "Done or in progress.")</i>	Have not decided	3	13	82	28	1,150	28	4,617	25	13%	9%	.11	11%	.05	13%	.00
		Do not plan to do	10	42	51	17	867	21	3,391	19							
		Plan to do	8	33	135	46	1,712	41	7,918	43							
		Done or in progress	3	13	27	9	449	11	2,302	13							
		Total	24	100	295	100	4,178	100	18,228	100							
c. Participate in a learning community or some other formal program where groups of students take two or more classes together	learncom <i>(Means indicate the percentage who responded "Done or in progress.")</i>	Have not decided	4	17	92	31	1,402	34	5,504	30	33%	14% *	.46	16% *	.42	17% *	.39
		Do not plan to do	11	46	80	27	947	23	4,514	25							
		Plan to do	1	4	80	27	1,177	28	5,128	28							
		Done or in progress	8	33	41	14	648	16	3,064	17							
		Total	24	100	293	100	4,174	100	18,210	100							
d. Participate in a study abroad program	abroad <i>(Means indicate the percentage who responded "Done or in progress.")</i>	Have not decided	5	21	86	29	1,175	28	4,769	26	4%	3%	.04	3%	.06	3%	.04
		Do not plan to do	9	38	68	23	948	23	3,835	21							
		Plan to do	9	38	129	44	1,926	46	8,991	49							
		Done or in progress	1	4	10	3	127	3	620	3							
		Total	24	100	293	100	4,176	100	18,215	100							
e. Work with a faculty member on a research project	research <i>(Means indicate the percentage who responded "Done or in progress.")</i>	Have not decided	5	22	80	27	1,184	29	4,759	26	4%	6%	-.09	7%	-.11	8%	-.16
		Do not plan to do	6	26	38	13	470	11	1,824	10							
		Plan to do	11	48	156	53	2,206	53	10,085	56							
		Done or in progress	1	4	19	6	290	7	1,503	8							
		Total	23	100	293	100	4,150	100	18,171	100							
f. Complete a culminating senior experience (capstone course, senior project or thesis, comprehensive exam, portfolio, etc.)	capstone <i>(Means indicate the percentage who responded "Done or in progress.")</i>	Have not decided	8	33	91	31	1,222	29	4,965	27	0%	2%	-.31	2%	-.30	2%	-.30
		Do not plan to do	1	4	19	7	275	7	1,255	7							
		Plan to do	15	63	174	60	2,571	62	11,538	64							
		Done or in progress	0	0	7	2	96	2	409	2							
		Total	24	100	291	100	4,164	100	18,167	100							

12. About how many of your courses at this institution have included a community-based project (service-learning)?

servcourse	Count	%	Count	%	Count	%	Count	%	Mean	Effect size ⁿ	Mean	Effect size ⁿ
1 None	13	54	187	64	2,021	49	8,991	50	1.6	1.4	.22	1.6
2 Some	9	38	86	29	1,832	44	7,871	43				
3 Most	1	4	18	6	268	6	1,100	6				
4 All	1	4	2	1	46	1	191	1				
Total	24	100	293	100	4,167	100	18,153	100				

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Shippensburg University of Pennsylvania

First-Year Students^a in Bio, Agric, & Nat Res

				Frequency Distributions								Statistical Comparisons ^k							
				SHIP		PASSHE		Carnegie Class		NSSE 2015 & 2016		SHIP		Your first-year students compared with					
Item wording or description	Variable name ^l	Values ^m	Response options	Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size ⁿ	Mean	Effect size ⁿ	Mean	Effect size ⁿ	
d. Student services staff (career services, student activities, housing, etc.)	QIstaff	1	Poor	4	17	18	6	186	4	731	4	4.2	4.9	-.38	5.0 *	-.50	5.0 *	-.51	
		2		0	0	19	6	189	5	786	4								
		3		2	8	18	6	299	7	1,323	7								
		4		2	8	41	14	552	13	2,554	14								
		5		7	29	48	16	810	19	3,822	21								
		6		4	17	66	23	869	21	3,975	22								
		7	Excellent	1	4	55	19	875	21	3,579	20								
		—	Not applicable	4	17	28	10	386	9	1,420	8								
Total				24	100	293	100	4,166	100	18,190	100								
e. Other administrative staff and offices (registrar, financial aid, etc.)	QIadmin	1	Poor	4	17	16	5	194	5	813	4	4.3	4.8	-.29	5.0	-.41	4.9	-.40	
		2		1	4	22	8	219	5	949	5								
		3		2	8	24	8	339	8	1,454	8								
		4		4	17	39	13	591	14	2,688	15								
		5		4	17	54	18	877	21	3,991	22								
		6		3	13	59	20	863	21	3,781	21								
		7	Excellent	4	17	52	18	854	20	3,369	18								
		—	Not applicable	2	8	27	9	243	6	1,205	7								
Total				24	100	293	100	4,180	100	18,250	100								
14. How much does your institution emphasize the following?																			
a. Spending significant amounts of time studying and on academic work	empstudy	1	Very little	2	8	5	2	43	1	210	1	3.2	3.3	-.14	3.3	-.16	3.3	-.19	
		2	Some	2	8	37	13	533	13	2,235	12								
		3	Quite a bit	10	42	126	43	1,794	43	7,490	41								
		4	Very much	10	42	127	43	1,791	43	8,230	45								
		Total				24	100	295	100	4,161	100								18,165
b. Providing support to help students succeed academically	SEacademic	1	Very little	2	8	7	2	106	3	481	3	3.0	3.1	-.10	3.2	-.17	3.2	-.18	
		2	Some	4	17	57	19	683	17	2,989	17								
		3	Quite a bit	9	38	123	42	1,721	42	7,297	40								
		4	Very much	9	38	107	36	1,629	39	7,286	40								
		Total				24	100	294	100	4,139	100								18,053
c. Using learning support services (tutoring services, writing center, etc.)	SElearnsup	1	Very little	1	4	15	5	145	3	656	4	3.2	3.1	.09	3.2	-.08	3.2	-.08	
		2	Some	4	17	49	17	628	15	2,699	15								
		3	Quite a bit	9	38	124	42	1,478	36	6,483	36								
		4	Very much	10	42	106	36	1,903	46	8,263	46								
		Total				24	100	294	100	4,154	100								18,101

NSSE 2016 Major Field Report, Part II: Comparisons to Other Institutions

Frequencies and Statistical Comparisons: Bio, Agric, & Nat Res

Shippensburg University of Pennsylvania

First-Year Students^a in Bio, Agric, & Nat Res

				Frequency Distributions								Statistical Comparisons ^k						
				SHIP		PASSHE		Carnegie Class		NSSE 2015 & 2016		SHIP		Your first-year students compared with				
Item wording or description	Variable name ^l	Values ^m	Response options	Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size ⁿ	Mean	Effect size ⁿ	Mean	Effect size ⁿ
d. Encouraging contact among students from different backgrounds (social, racial/ethnic, religious, etc.)	SEdiverse	1	Very little	9	38	56	19	450	11	2,002	11	2.4	2.5	-.15	2.8	-.42	2.8	-.41
		2	Some	3	13	89	30	1,164	28	5,091	28							
		3	Quite a bit	6	25	85	29	1,372	33	5,958	33							
		4	Very much	6	25	63	22	1,169	28	5,074	28							
		Total		24	100	293	100	4,155	100	18,125	100							
e. Providing opportunities to be involved socially	SEsocial	1	Very little	2	8	18	6	238	6	871	5	3.1	2.9	.16	3.0	.06	3.1	.03
		2	Some	4	17	73	25	896	22	3,710	20							
		3	Quite a bit	8	33	112	38	1,536	37	7,006	39							
		4	Very much	10	42	92	31	1,482	36	6,530	36							
		Total		24	100	295	100	4,152	100	18,117	100							
f. Providing support for your overall well-being (recreation, health care, counseling, etc.)	SEwellness	1	Very little	2	8	25	9	255	6	1,033	6	3.0	2.9	.07	3.0	-.04	3.0	-.08
		2	Some	5	21	65	22	912	22	3,753	21							
		3	Quite a bit	9	38	121	41	1,573	38	6,956	38							
		4	Very much	8	33	83	28	1,407	34	6,335	35							
		Total		24	100	294	100	4,147	100	18,077	100							
g. Helping you manage your non-academic responsibilities (work, family, etc.)	SEnonacad	1	Very little	9	38	89	30	888	21	3,754	21	2.2	2.1	.08	2.4	-.18	2.4	-.19
		2	Some	4	17	106	36	1,458	35	6,343	35							
		3	Quite a bit	8	33	72	24	1,102	27	5,020	28							
		4	Very much	3	13	28	9	704	17	2,981	16							
		Total		24	100	295	100	4,152	100	18,098	100							
h. Attending campus activities and events (performing arts, athletic events, etc.)	SEactivities	1	Very little	3	13	31	11	337	8	1,171	6	2.8	2.7	.16	2.9	-.05	2.9	-.13
		2	Some	5	21	88	30	1,036	25	4,294	24							
		3	Quite a bit	9	38	116	39	1,560	38	6,907	38							
		4	Very much	7	29	59	20	1,206	29	5,687	31							
		Total		24	100	294	100	4,139	100	18,059	100							
i. Attending events that address important social, economic, or political issues	SEevents	1	Very little	4	17	63	22	570	14	2,292	13	2.8	2.4 *	.45	2.6	.19	2.6	.15
		2	Some	6	25	101	35	1,329	32	5,746	32							
		3	Quite a bit	5	21	90	31	1,391	34	6,067	34							
		4	Very much	9	38	38	13	853	21	3,934	22							
		Total		24	100	292	100	4,143	100	18,039	100							

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Shippensburg University of Pennsylvania

First-Year Students^a in Bio, Agric, & Nat Res

				Frequency Distributions								Statistical Comparisons ^k							
				SHIP		PASSHE		Carnegie Class		NSSE 2015 & 2016		SHIP		Your first-year students compared with					
Item wording or description	Variable name ^l	Values ^m	Response options	Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size ⁿ	Mean	Effect size ⁿ	Mean	Effect size ⁿ	
g. Providing care for dependents (children, parents, etc.)	tmcarehrs	0	0 hrs	21	88	244	83	3,160	76	14,489	80	1.0	1.3	-.08	2.2	-.21	1.8	-.16	
	(Recoded version of tmcare created by NSSE. Values are estimated number of hours per week.)	3	1-5 hrs	2	8	24	8	495	12	1,817	10								
	8	6-10 hrs	0	0	14	5	203	5	719	4									
	13	11-15 hrs	0	0	6	2	110	3	403	2									
	18	16-20 hrs	1	4	3	1	73	2	268	1									
	23	21-25 hrs	0	0	2	1	39	1	146	1									
	28	26-30 hrs	0	0	1	0	16	0	53	0									
	33	More than 30 hrs	0	0	0	0	55	1	213	1									
	Total		24	100	294	100	4,151	100	18,108	100									
h. Commuting to campus (driving, walking, etc.)	tmcommutehrs	0	0 hrs	15	63	152	52	1,812	43	8,050	44	3.0	2.7	.07	3.6	-.11	3.4	-.08	
	(Recoded version of tmcommute created by NSSE. Values are estimated number of hours per week.)	3	1-5 hrs	5	21	103	35	1,456	35	6,578	36								
	8	6-10 hrs	2	8	22	7	529	13	2,057	11									
	13	11-15 hrs	0	0	9	3	209	5	782	4									
	18	16-20 hrs	1	4	5	2	81	2	353	2									
	23	21-25 hrs	1	4	3	1	36	1	151	1									
	28	26-30 hrs	0	0	0	0	11	0	60	0									
	33	More than 30 hrs	0	0	1	0	33	1	138	1									
Total		24	100	295	100	4,167	100	18,169	100										
16. Of the time you spend preparing for class in a typical 7-day week, about how much is on assigned reading?																			
reading	1	Very little	2	8	39	13	499	12	2,068	11	2.9	2.5	.35	2.7	.15	2.7	.13		
	(Revised for 2014. Comparison data are limited to NSSE 2014 participating institutions.)	2	Some	7	29	117	40	1,401	34	6,232								34	
	3	About half	8	33	95	32	1,275	31	5,388	30									
	4	Most	6	25	28	10	740	18	3,331	18									
	5	Almost all	1	4	14	5	237	6	1,118	6									
Total		24	100	293	100	4,152	100	18,137	100										
tmreadinghrs	(Continuous variable created by NSSE. Calculated as a proportion of tmprephrs based on reading, where Very little=.10; Some=.25; About half=.50; Most=.75; Almost all=.90)																		
												7.5	6.0	.27	7.0	.09	7.4	.01	

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Item wording or description	Variable name ^l	Values ^m	Response options	Frequency Distributions								Statistical Comparisons ^k					
				SHIP		PASSHE		Carnegie Class		NSSE 2015 & 2016		SHIP	PASSHE	Carnegie Class	NSSE 2015 & 2016		
				Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size ⁿ	Mean	Effect size ⁿ	
	tmreadinghrscol	1	0 hrs	0	0	2	1	9	0	54	0						
	(Collapsed version of tmreadinghrs created by NSSE.)	2	More than zero, up to 5 hrs	11	46	158	54	2,005	48	8,202	45						
		3	More than 5, up to 10 hrs	7	29	85	29	1,207	29	5,417	30						
		4	More than 10, up to 15 hrs	4	17	29	10	467	11	2,187	12						
		5	More than 15, up to 20 hrs	0	0	7	2	235	6	1,116	6						
		6	More than 20, up to 25 hrs	2	8	10	3	163	4	786	4						
		7	More than 25 hrs	0	0	2	1	51	1	293	2						
			Total	24	100	293	100	4,137	100	18,055	100						

17. How much has your experience at this institution contributed to your knowledge, skills, and personal development in the following areas?

a. Writing clearly and effectively	pgwrite	1	Very little	4	17	20	7	312	7	1,495	8	2.8	2.8	-.04	2.8	-.06	2.8	-.01
		2	Some	6	25	80	27	1,087	26	4,954	27							
		3	Quite a bit	5	21	128	43	1,716	41	7,393	41							
		4	Very much	9	38	68	23	1,066	25	4,372	24							
			Total	24	100	296	100	4,181	100	18,214	100							
b. Speaking clearly and effectively	pgspeak	1	Very little	3	13	43	15	487	12	2,351	13	2.8	2.6	.16	2.7	.09	2.6	.15
		2	Some	6	25	93	32	1,333	32	5,875	32							
		3	Quite a bit	9	38	99	34	1,441	35	6,405	35							
		4	Very much	6	25	60	20	904	22	3,537	19							
			Total	24	100	295	100	4,165	100	18,168	100							
c. Thinking critically and analytically	pgthink	1	Very little	2	8	9	3	125	3	568	3	3.0	3.1	-.15	3.1	-.20	3.1	-.21
		2	Some	5	21	59	20	763	18	3,201	18							
		3	Quite a bit	9	38	126	43	1,768	42	7,819	43							
		4	Very much	8	33	102	34	1,510	36	6,588	36							
			Total	24	100	296	100	4,166	100	18,176	100							
d. Analyzing numerical and statistical information	pganalyze	1	Very little	3	13	25	8	354	8	1,472	8	2.8	2.8	-.05	2.8	-.01	2.8	-.02
		2	Some	6	25	76	26	1,185	28	5,098	28							
		3	Quite a bit	8	33	118	40	1,577	38	7,017	39							
		4	Very much	7	29	77	26	1,051	25	4,595	25							
			Total	24	100	296	100	4,167	100	18,182	100							

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				Frequency Distributions								Statistical Comparisons ^k						
				SHIP		PASSHE		Carnegie Class		NSSE 2015 & 2016		SHIP		Your first-year students compared with				
Item wording or description	Variable name ^l	Values ^m	Response options	Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size ⁿ	Mean	Effect size ⁿ	Mean	Effect size ⁿ
e. Acquiring job- or work-related knowledge and skills	pgwork	1	Very little	5	21	61	21	698	17	2,910	16	2.4	2.4	-.07	2.5	-.11	2.5	-.15
		2	Some	10	42	99	33	1,485	36	6,282	35							
		3	Quite a bit	4	17	78	26	1,258	30	5,667	31							
		4	Very much	5	21	58	20	722	17	3,305	18							
		Total		24	100	296	100	4,163	100	18,164	100							
f. Working effectively with others	pgothers	1	Very little	3	13	29	10	284	7	1,253	7	2.8	2.8	.04	2.8	-.02	2.8	-.01
		2	Some	5	22	83	28	1,164	28	5,058	28							
		3	Quite a bit	8	35	105	35	1,647	40	7,245	40							
		4	Very much	7	30	79	27	1,068	26	4,629	25							
		Total		23	100	296	100	4,163	100	18,185	100							
g. Developing or clarifying a personal code of values and ethics	pgvalues	1	Very little	5	21	48	16	549	13	2,320	13	2.6	2.5	.09	2.7	-.06	2.7	-.07
		2	Some	7	29	102	34	1,197	29	5,262	29							
		3	Quite a bit	4	17	87	29	1,456	35	6,345	35							
		4	Very much	8	33	59	20	975	23	4,249	23							
		Total		24	100	296	100	4,177	100	18,176	100							
h. Understanding people of other backgrounds (economic, racial/ethnic, political, religious, nationality, etc.)	pgdiverse	1	Very little	3	13	67	23	519	12	2,099	12	2.7	2.5	.18	2.7	-.05	2.7	-.07
		2	Some	9	38	86	29	1,206	29	5,290	29							
		3	Quite a bit	5	21	78	26	1,373	33	6,198	34							
		4	Very much	7	29	65	22	1,070	26	4,597	25							
		Total		24	100	296	100	4,168	100	18,184	100							
i. Solving complex real-world problems	pgprobsolve	1	Very little	4	17	48	16	549	13	2,280	13	2.5	2.5	.07	2.6	-.04	2.6	-.07
		2	Some	10	42	117	40	1,430	34	6,147	34							
		3	Quite a bit	3	13	73	25	1,395	34	6,187	34							
		4	Very much	7	29	57	19	790	19	3,570	20							
		Total		24	100	295	100	4,164	100	18,184	100							
j. Being an informed and active citizen	pgcitizen	1	Very little	7	29	65	22	590	14	2,526	14	2.3	2.3	.00	2.6	-.26	2.6	-.28
		2	Some	8	33	107	36	1,379	33	5,890	32							
		3	Quite a bit	3	13	81	28	1,365	33	6,014	33							
		4	Very much	6	25	41	14	820	20	3,700	20							
		Total		24	100	294	100	4,154	100	18,130	100							

NSSE 2016 Major Field Report, Part II: Comparisons to Other Institutions

Frequencies and Statistical Comparisons: Bio, Agric, & Nat Res

Shippensburg University of Pennsylvania

First-Year Students^a in Bio, Agric, & Nat Res

Item wording or description	Variable name ^l	Values ^m	Response options	Frequency Distributions								Statistical Comparisons ^k						
				SHIP		PASSHE		Carnegie Class		NSSE 2015 & 2016		SHIP		Your first-year students compared with				
				Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size ⁿ	Mean	Effect size ⁿ	Mean	Effect size ⁿ
18. How would you evaluate your entire educational experience at this institution?																		
	evalexp	1	Poor	1	4	6	2	69	2	301	2	3.0	3.1	-.14	3.2	-.32	3.2	-.37
		2	Fair	6	25	43	15	525	13	2,162	12							
		3	Good	10	42	174	59	2,143	51	9,047	49							
		4	Excellent	7	29	72	24	1,452	35	6,786	37							
		Total		24	100	295	100	4,189	100	18,296	100							
19. If you could start over again, would you go to the same institution you are now attending?																		
	sameinst	1	Definitely no	4	17	13	4	185	4	719	4	2.8	3.0	-.31	3.2	-.49	3.2	-.55
		2	Probably no	5	21	60	20	584	14	2,336	13							
		3	Probably yes	8	33	131	44	1,830	44	7,887	43							
		4	Definitely yes	7	29	91	31	1,596	38	7,372	40							
		Total		24	100	295	100	4,195	100	18,314	100							

NSSE 2016 Major Field Report, Part II: Comparisons to Other Institutions

Respondent Profile: Bio, Agric, & Nat Res Shippensburg University of Pennsylvania

Bio, Agric, & Nat Res

			First-Year Students ^a								Seniors ^a							
			SHIP		PASSHE		Carnegie Class		NSSE 2015 & 2016		SHIP		PASSHE		Carnegie Class		NSSE 2015 & 2016	
Item wording or description	Variable name	Response options	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%
20a. How many majors do you plan to complete? (Do not count minors.)	MAJnum	One	22	92	259	88	3,737	89	15,788	86								
		More than one	2	8	37	13	468	11	2,574	14								
		Total	24	100	296	100	4,205	100	18,362	100								
First major or expected first major, in NSSE's default related-major categories. <i>(Does not reflect any customization made for the Major Field Report)</i>	MAJfirstcol <i>(Recoded from MAJfirst.)</i>	Arts & Humanities	0	0	0	0	0	0	0	0								
		Biological Sci., Agriculture, & Natural Resources	24	100	296	100	4,205	100	18,362	100								
		Physical Sci., Mathematics, & Computer Science	0	0	0	0	0	0	0	0								
		Social Sciences	0	0	0	0	0	0	0	0								
		Business	0	0	0	0	0	0	0	0								
		Communications, Media, & Public Relations	0	0	0	0	0	0	0	0								
		Education	0	0	0	0	0	0	0	0								
		Engineering	0	0	0	0	0	0	0	0								
		Health Professions	0	0	0	0	0	0	0	0								
		Social Service Professions	0	0	0	0	0	0	0	0								
		All Other	0	0	0	0	0	0	0	0								
		Undecided, Undeclared	0	0	0	0	0	0	0	0								
		Total	24	100	296	100	4,205	100	18,362	100								
Second major or expected second major, in NSSE's default related-major categories. <i>(Does not reflect any customization made for the Major Field Report)</i>	MAJsecondcol <i>(Recoded from MAJsecond.)</i>	Arts & Humanities	1	50	5	14	82	18	525	20								
		Biological Sci., Agriculture, & Natural Resources	0	0	8	22	63	13	473	18								
		Physical Sci., Mathematics, & Computer Science	0	0	5	14	65	14	387	15								
		Social Sciences	0	0	6	16	99	21	510	20								
		Business	0	0	1	3	25	5	118	5								
		Communications, Media, & Public Relations	0	0	0	0	1	0	17	1								
		Education	1	50	2	5	19	4	69	3								
		Engineering	0	0	0	0	3	1	23	1								
		Health Professions	0	0	8	22	80	17	300	12								
		Social Service Professions	0	0	0	0	13	3	64	2								
		All Other	0	0	1	3	12	3	53	2								
		Undecided, Undeclared	0	0	1	3	6	1	27	1								
		Total	2	100	37	100	468	100	2,566	100								

NSSE 2016 Major Field Report, Part II: Comparisons to Other Institutions

Respondent Profile: Bio, Agric, & Nat Res Shippensburg University of Pennsylvania

Bio, Agric, & Nat Res

First-Year Students^a

Seniors^a

Item wording or description	Variable name	Response options	SHIP		PASSHE		Carnegie Class		NSSE 2015 & 2016		SHIP		PASSHE		Carnegie Class		NSSE 2015 & 2016	
			Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%
21. What is your class level?	class	Freshman/First-year	23	96	263	89	3,765	90	16,538	91								
		Sophomore	1	4	23	8	337	8	1,378	8								
		Junior	0	0	5	2	43	1	217	1								
		Senior	0	0	2	1	11	0	40	0								
		Unclassified	0	0	1	0	18	0	55	0								
		Total			24	100	294	100	4,174	100	18,228	100						
22. Thinking about this current academic term, are you a full-time student?	fulltime	No	0	0	4	1	72	2	301	2								
		Yes	24	100	287	99	4,087	98	17,840	98								
		Total	24	100	291	100	4,159	100	18,141	100								
23a. How many courses are you taking for credit this current academic term?	coursenum	0	0	0	0	8	0	34	0									
		1	0	0	0	9	0	53	0									
		2	0	0	1	0	27	1	99	1								
		3	0	0	5	2	167	4	610	3								
		4	5	21	88	30	1,184	28	5,461	30								
		5	17	71	129	44	1,456	35	6,116	34								
		6	2	8	48	16	744	18	3,353	18								
		Total	24	100	294	100	4,175	100	18,222	100								
b. Of these, how many are entirely online?	onlinenum	0	24	100	266	91	3,624	87	15,924	88								
		1	0	0	22	8	401	10	1,642	9								
		2	0	0	4	1	74	2	343	2								
		3	0	0	0	0	20	0	105	1								
		4	0	0	0	0	9	0	50	0								
		5	0	0	0	0	13	0	33	0								
		6	0	0	0	0	3	0	17	0								
		Total	24	100	293	100	4,152	100	18,139	100								
Collapsed recode of courses taken online (Based on responses to coursenum and onlinenum)	onlinecscol	No courses taken online	24	100	266	91	3,624	87	15,923	88								
		Some courses taken online	0	0	26	9	484	12	2,062	11								
		All courses taken online	0	0	1	0	44	1	153	1								
		Total	24	100	293	100	4,152	100	18,138	100								

NSSE 2016 Major Field Report, Part II: Comparisons to Other Institutions

Respondent Profile: Bio, Agric, & Nat Res Shippensburg University of Pennsylvania

Bio, Agric, & Nat Res

First-Year Students^a

Seniors^a

Item wording or description	Variable name	Response options	SHIP		PASSHE		Carnegie Class		NSSE 2015 & 2016		SHIP		PASSHE		Carnegie Class		NSSE 2015 & 2016	
			Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%
			Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%
24. What have most of your grades been up to now at this institution?	grades	C- or lower	2	8	3	1	73	2	287	2								
		C	1	4	11	4	131	3	498	3								
		C+	0	0	20	7	169	4	795	4								
		B-	2	8	29	10	301	7	1,175	6								
		B	5	21	62	21	784	19	3,317	18								
		B+	6	25	67	23	772	19	3,377	19								
		A-	2	8	46	16	815	20	3,667	20								
		A	6	25	55	19	1,123	27	5,082	28								
Total	24	100	293	100	4,168	100	18,198	100										
25. Did you begin college at this institution or elsewhere?	begincol	Started here	24	100	273	93	3,866	93	16,948	93								
		Started elsewhere	0	0	19	7	297	7	1,234	7								
		Total	24	100	292	100	4,163	100	18,182	100								
26. Since graduating from high school, which of the following types of schools have you attended <i>other than</i> the one you are now attending? (Select all that apply.)	attend_voc	Vocational or technical school	1	4	9	3	113	3	375	2								
	attend_com	Community or junior college	0	0	18	6	279	7	1,312	7								
	attend_col	4-year college or university other than this one	1	4	26	9	298	7	1,259	7								
	attend_none	None	20	87	240	82	3,437	83	15,040	83								
	attend_other	Other	1	4	10	3	103	2	451	2								
27. What is the highest level of education you ever expect to complete?	edaspire	Some college but less than a bachelor's degree	0	0	11	4	164	4	683	4								
		Bachelor's degree (B.A., B.S., etc.)	4	17	61	21	599	14	2,549	14								
		Master's degree (M.A., M.S., etc.)	9	38	79	27	911	22	3,654	20								
		Doctoral or professional degree (Ph.D., J.D., M.D., etc.)	11	46	141	48	2,479	60	11,244	62								
		Total	24	100	292	100	4,153	100	18,130	100								

NSSE 2016 Major Field Report, Part II: Comparisons to Other Institutions

Respondent Profile: Bio, Agric, & Nat Res Shippensburg University of Pennsylvania

Bio, Agric, & Nat Res

			First-Year Students ^a								Seniors ^a							
			SHIP		PASSHE		Carnegie Class		NSSE 2015 & 2016		SHIP		PASSHE		Carnegie Class		NSSE 2015 & 2016	
Item wording or description	Variable name	Response options	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%
28. What is the highest level of education completed by either of your parents (or those who raised you)?	parented	Did not finish high school	0	0	7	2	269	6	837	5								
		High school diploma or G.E.D.	5	21	57	19	728	18	2,639	15								
		Attended college, but did not complete degree	2	8	34	12	479	12	1,779	10								
		Associate's degree (A.A., A.S., etc.)	4	17	40	14	461	11	1,753	10								
		Bachelor's degree (B.A., B.S., etc.)	7	29	82	28	1,103	27	5,128	28								
		Master's degree (M.A., M.S., etc.)	5	21	58	20	769	19	3,916	22								
		Doctoral or professional degree (Ph.D., J.D., M.D., etc.)	1	4	16	5	341	8	2,087	12								
		Total	24	100	294	100	4,150	100	18,139	100								
First-generation status (No parent holds a bachelor's degree)	firstgen <i>(Recoded from parented)</i>	Not first-generation	13	54	156	53	2,213	53	11,131	61								
		First-generation	11	46	138	47	1,937	47	7,008	39								
		Total	24	100	294	100	4,150	100	18,139	100								
29. What is your gender identity?	genderid	Man	5	21	76	26	1,060	25	5,076	28								
		Woman	19	79	212	72	3,031	73	12,806	70								
		Another gender identity	0	0	2	1	22	1	97	1								
		I prefer not to respond	0	0	4	1	46	1	202	1								
		Total	24	100	294	100	4,159	100	18,181	100								
30. Enter your year of birth (e.g., 1994):	agecat <i>(Recoded from the information entered in birthyear)</i>	19 or younger	23	96	267	91	3,853	93	16,855	93								
		20-23	1	4	23	8	194	5	922	5								
		24-29	0	0	3	1	48	1	173	1								
		30-39	0	0	0	0	30	1	96	1								
		40-55	0	0	0	0	13	0	40	0								
		Over 55	0	0	0	0	2	0	3	0								
Total	24	100	293	100	4,140	100	18,089	100										
31a. Are you an international student?	internat	No	24	100	282	98	4,002	97	17,280	96								
		Yes	0	0	6	2	131	3	724	4								
		Total	24	100	288	100	4,133	100	18,004	100								
International student country of citizenship, collapsed into regions by NSSE. Responses to country are in the data file. U.S. (domestic) students did not receive this question.	countrycol <i>(Recoded from country.)</i>	Africa Sub-Saharan	0	0	1	17	19	16	97	14								
		Asia	0	0	1	17	33	28	266	39								
		Canada	0	0	0	0	8	7	47	7								
		Europe	0	0	1	17	15	13	75	11								
		Latin America and Caribbean	0	0	2	33	26	22	137	20								
		Middle East and North Africa	0	0	1	17	17	14	53	8								
		Oceania	0	0	0	0	1	1	8	1								
		Unknown region/uncoded	0	0	0	0	0	0	1	0								
Total	0	0	6	100	119	100	684	100										

NSSE 2016 Major Field Report, Part II: Comparisons to Other Institutions

Respondent Profile: Bio, Agric, & Nat Res Shippensburg University of Pennsylvania

Bio, Agric, & Nat Res

First-Year Students^a

Seniors^a

Item wording or description	Variable name	Response options	SHIP		PASSHE		Carnegie Class		NSSE 2015 & 2016		SHIP		PASSHE		Carnegie Class		NSSE 2015 & 2016	
			Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%
32. What is your racial or ethnic identification? (Select all that apply.)	re_amind	American Indian or Alaska Native	0	0	6	2	88	2	419	2								
	re_asian	Asian	2	8	8	3	429	10	2,303	13								
	re_black	Black or African American	1	4	36	12	463	11	1,922	11								
	re_latino	Hispanic or Latino	1	4	23	8	648	16	2,412	13								
	re_pacific	Native Hawaiian or Other Pacific Islander	0	0	0	0	45	1	186	1								
	re_white	White	20	83	225	78	2,633	63	11,755	65								
	re_other	Other	0	0	7	2	123	3	503	3								
	re_pnr	I prefer not to respond	1	4	11	4	139	3	575	3								
Racial or ethnic identification	re_all	American Indian or Alaska Native	0	0	1	0	13	0	79	0								
	(Recoded from	Asian	1	4	6	2	351	8	1,821	10								
	re_amind	Black or African American	1	4	26	9	366	9	1,515	8								
	through	Hispanic or Latino	1	4	14	5	486	12	1,715	9								
	re_pnr	Native Hawaiian/Other Pac. Islander	0	0	0	0	12	0	40	0								
	where each	White	19	79	206	71	2,369	57	10,424	57								
	student is	Other	0	0	3	1	75	2	312	2								
	represented only	Multiracial	1	4	22	8	339	8	1,657	9								
once)	I prefer not to respond	1	4	11	4	139	3	575	3									
	Total	24	100	289	100	4,150	100	18,138	100									
33. Are you a member of a social fraternity or sorority?	greek	No	24	100	278	96	3,878	94	16,363	90								
		Yes	0	0	12	4	263	6	1,741	10								
		Total	24	100	290	100	4,141	100	18,104	100								
34. Which of the following best describes where you are living while attending college?	living	Dormitory or other campus housing (not fraternity or sorority house)	17	71	222	77	2,585	63	12,596	70								
		Fraternity or sorority house	0	0	0	0	14	0	131	1								
		Residence (house, apartment, etc.) within walking distance to the institution	2	8	20	7	298	7	1,169	6								
		Residence (house, apartment, etc.) farther than walking distance to the institution	5	21	43	15	1,088	26	3,718	21								
		None of the above	0	0	2	1	151	4	452	3								
		Total	24	100	287	100	4,136	100	18,066	100								
35. Are you a student-athlete on a team sponsored by your institution's athletics department?	athlete	No	20	83	265	91	3,732	90	16,179	90								
		Yes	4	17	25	9	406	10	1,884	10								
		Total	24	100	290	100	4,138	100	18,063	100								

NSSE 2016 Major Field Report, Part II: Comparisons to Other Institutions

Respondent Profile: Bio, Agric, & Nat Res Shippensburg University of Pennsylvania

Bio, Agric, & Nat Res

			First-Year Students ^a								Seniors ^a									
			SHIP		PASSHE		Carnegie Class		NSSE 2015 & 2016		SHIP		PASSHE		Carnegie Class		NSSE 2015 & 2016			
Item wording or description	Variable name	Response options	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%		
36. Are you a current or former member of the U.S. Armed Forces, Reserves, or National Guard?	veteran	No	22	96	287	99	4,082	99	17,829	99										
		Yes	1	4	3	1	45	1	183	1										
		Total	23	100	290	100	4,127	100	18,012	100										
37a. Have you been diagnosed with any disability or impairment?	disability	No	22	92	255	88	3,669	88	16,015	88										
		Yes	2	8	31	11	359	9	1,603	9										
		I prefer not to respond	0	0	5	2	118	3	491	3										
		Total	24	100	291	100	4,146	100	18,109	100										
b. [If answered "yes"] Which of the following has been diagnosed? (Select all that apply.)	dis_sense	A sensory impairment (vision or hearing)	0	0	5	16	57	16	265	17										
	dis_mobility	A mobility impairment	0	0	3	10	23	6	108	7										
	dis_learning	A learning disability (e.g., ADHD, dyslexia)	2	100	15	48	162	45	661	41										
	dis_mental	A mental health disorder	0	0	15	48	139	39	628	39										
	dis_other	A disability or impairment not listed above	0	0	5	16	69	19	279	17										
	Disability or impairment	disability_all	A sensory impairment	0	0	4	1	40	1	190	1									
(Recoded from		A mobility impairment	0	0	1	0	8	0	64	0										
disability and		A learning disability	2	8	6	2	105	3	451	2										
dis_sense		A mental health disorder	0	0	5	2	89	2	418	2										
through		A disability or impairment not listed	0	0	3	1	41	1	176	1										
dis_other where		More than one disability or	0	0	12	4	76	2	297	2										
each student is		impairment																		
represented only		No disability or impairment	22	92	255	88	3,669	88	16,015	88										
once)	Prefer not to respond	0	0	5	2	118	3	491	3											
	Total	24	100	291	100	4,146	100	18,102	100											
38. Which of the following best describes your sexual orientation? (Question administered per institution request)	sexorient14	Heterosexual	--	--	136	88	1,140	85	7,213	85										
		Gay	--	--	0	0	16	1	117	1										
		Lesbian	--	--	2	1	7	1	66	1										
		Bisexual	--	--	6	4	53	4	352	4										
		Another sexual orientation	--	--	3	2	22	2	150	2										
		Questioning or unsure	--	--	2	1	26	2	172	2										
		I prefer not to respond	--	--	6	4	75	6	418	5										
		Total	--	--	155	100	1,339	100	8,488	100										

NSSE 2016 Major Field Report, Part II: Comparisons to Other Institutions

Respondent Profile: Bio, Agric, & Nat Res Shippensburg University of Pennsylvania

Bio, Agric, & Nat Res

First-Year Students^a

Seniors^a

Item wording or description	Variable name	Response options	SHIP		PASSHE		Carnegie Class		NSSE 2015 & 2016		SHIP		PASSHE		Carnegie Class		NSSE 2015 & 2016				
			Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%			
Institution-reported information																					
(Variables provided by your institution in your NSSE population file.)																					
Institution-reported sex	IRsex	Female	19	79	221	75	3,111	74	13,142	72											
		Male	5	21	75	25	1,093	26	5,218	28											
		Total	24	100	296	100	4,204	100	18,360	100											
Institution-reported race or ethnicity	IRrace	American Indian or Alaska Native	0	0	0	0	20	1	97	1											
		Asian	2	8	6	2	265	7	1,484	9											
		Black or African American	1	4	28	9	359	10	1,461	9											
		Hispanic or Latino	1	4	16	5	583	16	2,154	13											
		Native Hawaiian/Other Pac. Islander	0	0	0	0	12	0	35	0											
		White	20	83	221	75	2,112	57	9,892	59											
		Other	0	0	0	0	1	0	1	0											
		Foreign or nonresident alien	0	0	6	2	103	3	564	3											
		Two or more races/ethnicities	0	0	15	5	137	4	681	4											
		Total	0	0	4	1	128	3	495	3											
		Total	24	100	296	100	3,720	100	16,864	100											
Institution-reported class level	IRclass	Freshman/First-Year	24	100	296	100	4,205	100	18,362	100											
		Sophomore	0	0	0	0	0	0	0	0											
		Junior	0	0	0	0	0	0	0	0											
		Senior	0	0	0	0	0	0	0	0											
		Other	0	0	0	0	0	0	0	0											
		Total	24	100	296	100	4,205	100	18,362	100											
Institution-reported first-time first-year (FTFY) status	IRftfy	No	1	4	39	13	327	8	1,313	7											
		Yes	23	96	257	87	3,878	92	17,049	93											
		Total	24	100	296	100	4,205	100	18,362	100											
Institution-reported enrollment status	IRenrollment	Not full-time	0	0	5	2	151	4	388	2											
		Full-time	24	100	291	98	4,054	96	17,974	98											
		Total	24	100	296	100	4,205	100	18,362	100											

Endnotes

- a. All results are unweighted.
- b. Standard deviation is a measure of the amount the individual scores deviate from the mean of all the scores in the distribution.
- c. Standard error of the mean, used to compute a confidence interval (CI) around the sample mean. For example, the 95% CI is the range of values that is 95% likely to contain the true population mean, equal to the sample mean +/- 1.96 * SEM.
- d. A percentile is the point in the distribution of student-level EI scores at or below which a given percentage of EI scores fall.
- e. Degrees of freedom used to compute the *t*-tests. Values differ from Ns due to whether equal variances were assumed.
- f. Statistical significance represents the probability that the difference between the mean of your institution and that of the comparison group occurred by chance: **p* < .05, ***p* < .01, ****p* < .001 (2-tailed).
- g. Cohen's *d*: The mean difference divided by the pooled standard deviation. Effect size indicates the practical importance of an observed difference. For EI comparisons, NSSE research has concluded that an effect size of about .1 may be considered small, .3 medium, and .5 large (Rocconi & Gonyea, 2015). Comparisons with an effect size of at least .3 in magnitude (before rounding) are highlighted in the Overview.
- h. Percentage of students who responded "Done or in progress" except for service-learning which is the percentage who responded that at least "Some" courses included a community-based project.
- i. **p* < .05, ***p* < .01, ****p* < .001 (*z*-test comparing participation rates).
- j. Cohen's *h*: The standardized difference between two proportions. Effect size indicates the practical importance of an observed difference. NSSE research has found that interpretations vary by HIP: For service-learning, internships, study abroad, and culminating senior experiences, an effect size of about .2 may be considered small, .5 medium, and .8 large. For learning community and research with faculty, an effect size of about .1 may be considered small, .3 medium, and .5 large (Rocconi & Gonyea, 2015).
- k. Means calculated from ordered response options (e.g., Very Often, Often, Sometimes, Never) assume equal intervals and should be interpreted with caution. Unless otherwise noted, statistical comparisons are two-tailed independent *t*-tests. Exceptions are the dichotomous high-impact practice items (11a to 11f) which are compared using a *z*-test.
- l. Items that make up the Engagement Indicators include the following two-letter prefixes: CL = Collaborative Learning, DD = Discussions with Diverse Others, ET = Effective Teaching Practices, HO = Higher-Order Learning, LS = Learning Strategies, QI = Quality of Interactions, QR = Quantitative Reasoning, RI = Reflective and Integrative Learning, SE = Supportive Environment, and SF = Student-Faculty Interaction.
- m. These are the values used to calculate means. For the majority of items, these values match the codes in the data file and codebook. For items estimating number of papers and hours per week, the values represent actual units using the midpoints of response option ranges and an estimate for unbounded options.
- n. Effect size for independent *t*-tests uses Cohen's *d*; *z*-tests use Cohen's *h*.
- o. Statistical comparison uses *z*-test to compare the percentage who responded "Done or in progress."

Key to symbols:

- ▲ Your students' average was significantly higher (*p* < .05) with an effect size at least .3 in magnitude.
- △ Your students' average was significantly higher (*p* < .05) with an effect size less than .3 in magnitude.
- ▽ Your students' average was significantly lower (*p* < .05) with an effect size less than .3 in magnitude.
- ▼ Your students' average was significantly lower (*p* < .05) with an effect size at least .3 in magnitude.

Note: It is important to interpret the direction of differences relative to item wording and your institutional context.

Reference: Rocconi, L., & Gonyea, R. M. (2015). Contextualizing student engagement effect sizes: An empirical analysis. Paper presented at the Association for Institutional Research Annual Forum, Denver, CO.