



NSSE 2015

High-Impact Practices

Indiana University-Purdue University Indianapolis

About Your High-Impact Practices Report

Due to their positive associations with student learning and retention, certain undergraduate opportunities are designated "high-impact." High-Impact Practices (HIPs) share several traits: They demand considerable time and effort, facilitate learning outside of the classroom, require meaningful interactions with faculty and students, encourage collaboration with diverse others, and provide frequent and substantive feedback. As a result, participation in these practices can be life-changing (Kuh, 2008). NSSE founding director George Kuh recommends that institutions should 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 (NSSE, 2007).

NSSE asks students about their participation in the six HIPs shown in the box at right. This report provides information on the first three for first-year students and all six for seniors. Unlike most questions on the NSSE survey, the HIP questions are not limited to the current school year. Thus, seniors' responses include participation from prior years.

High-Impact Practices in NSSE

- Learning community or some other formal program where groups of students take two or more classes together
- Courses that included a community-based project (service-learning)
- Work with a faculty member on a research project
- Internship, co-op, field experience, student teaching, or clinical placement
- Study abroad
- Culminating senior experience (capstone course, senior project or thesis, comprehensive exam, portfolio, etc.)

Report Sections

Participation Comparisons (p. 3)

Displays HIP participation for your first-year and senior students compared with that of students at your comparison group institutions. Two views present insights into your students' HIP participation:

Overall HIP Participation

Displays the percentage of first-year and senior students who participated in one HIP and in two or more HIPs, relative to those at your comparison group institutions.

Statistical Comparisons

Comparisons of participation in each HIP and overall for your first-year and senior students relative to those at comparison group institutions, with tests of significance and effect sizes (see below).

Response Detail (pp. 5-7)

Provides complete response frequencies for the relevant HIP questions for your first-year and senior students and those at your comparison group institutions.

Participation by Student Characteristics (p. 8)

Displays your students' participation in each HIP by selected student characteristics.

Interpreting Comparisons

The "Statistical Comparisons" section on page 3 reports both statistical significance and effect size. 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).

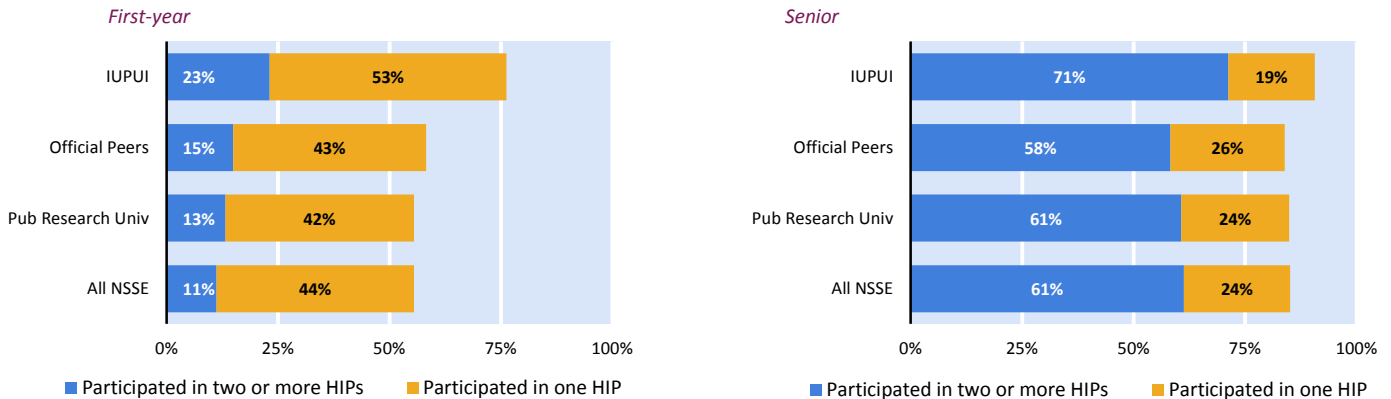
HIP participation varies more among students within an institution than it does between institutions, like many experiences and outcomes in higher education. As a result, focusing attention on overall participation rates amounts to examining the tip of the iceberg. It's equally important to understand how student engagement (including HIP participation) varies *within* your institution. The table on page 8 provides an initial look at how HIP participation varies by selected student characteristics. The Report Builder—Institution Version and your *Major Field Report* (both to be released in the fall) offer further perspectives on internal variation and can help you investigate your students' HIP participation in depth.

Kuh, G. D. (2008). *High-impact educational practices: What they are, who has access to them, and why they matter*. Washington, DC: Association of American Colleges and Universities.
National Survey of Student Engagement (2007). *Experiences that matter: Enhancing student learning and success—Annual Report 2007*. Bloomington, IN: Indiana University Center for Postsecondary Research.

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.

Overall HIP Participation

The figures below display the percentage 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.



Statistical Comparisons

The table below compares the percentage 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.

	IUPUI	Official Peers	Effect size ^a	Pub Research Univ	Effect size ^a	All NSSE	Effect size ^a
<i>First-year</i>	%	%		%		%	
11c. Learning Community	27	19 ***	.19	19 ***	.20	15 ***	.32
12. Service-Learning	70	52 ***	.37	46 ***	.47	49 ***	.41
11e. Research with Faculty	5	6	-.02	6	-.02	5	.01
Participated in at least one	76	58 ***	.39	55 ***	.44	56 ***	.44
Participated in two or more	23	15 ***	.21	13 ***	.26	11 ***	.32
<i>Senior</i>	%	%		%		%	
11c. Learning Community	29	25 **	.10	25 **	.09	24 **	.11
12. Service-Learning	74	53 ***	.44	54 ***	.42	59 ***	.33
11e. Research with Faculty	25	24	.04	26	-.01	24	.02
11a. Internship or Field Exp.	55	47 ***	.15	52	.06	51 *	.08
11d. Study Abroad	13	11	.05	15	-.05	14	-.03
11f. Culminating Senior Exp.	54	46 ***	.16	42 ***	.25	44 ***	.20
Participated in at least one	91	84 ***	.20	85 ***	.18	85 ***	.17
Participated in two or more	71	58 ***	.27	61 ***	.22	61 ***	.21

Note. 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.

a. Cohen's h: The standardized difference between two proportions. Effect size indicates the practical importance of an observed difference. NSSE research finds 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).

* $p < .05$, ** $p < .01$, *** $p < .001$ (z-test comparing participation rates).

Note. All results weighted by institution-reported sex and enrollment status (and by institution size for comparison groups).

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.

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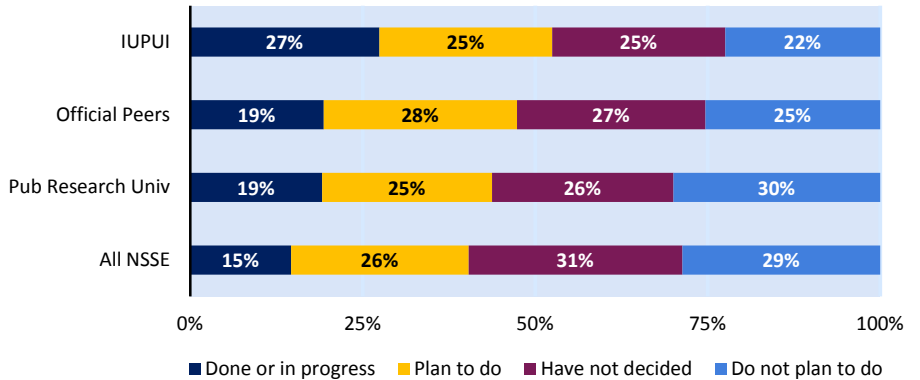
First-year Students

The figures below display further details about each High-Impact Practice for your first-year students and those of your comparison groups.

Learning Community

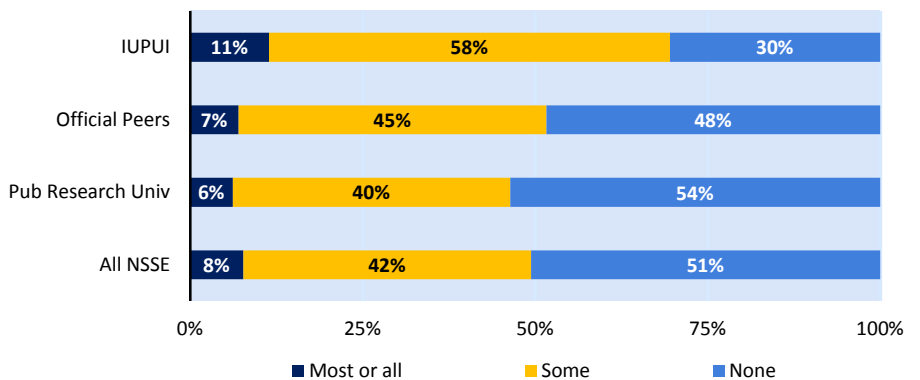
Which of the following have you done or do you plan to do before you graduate?

Participate in a learning community or some other formal program where groups of students take two or more classes together.



Service-Learning

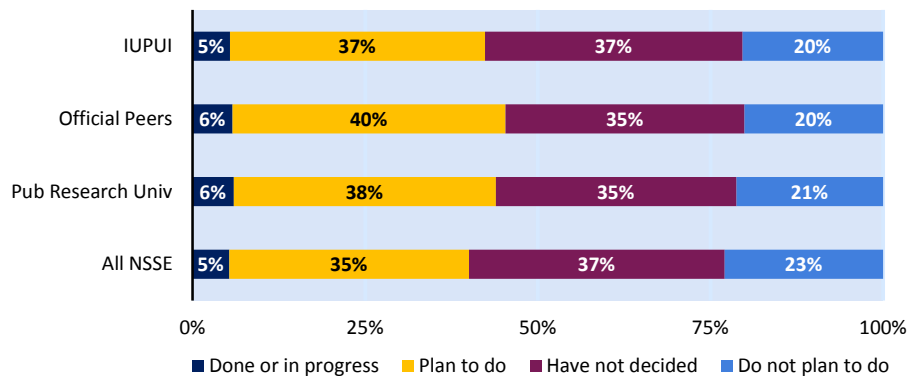
About how many of your courses at this institution have included a community-based project (service-learning)?



Research with a Faculty Member

Which of the following have you done or do you plan to do before you graduate?

Work with a faculty member on a research project.



Note: Results weighted by institution-reported sex and enrollment status (and institutional size for comparison groups).

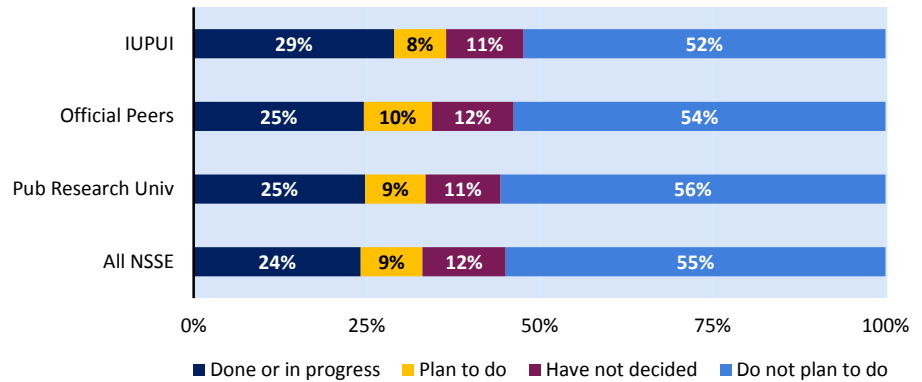
Seniors

The figures below display further details about each High-Impact Practice for your seniors and those of your comparison groups.

Learning Community

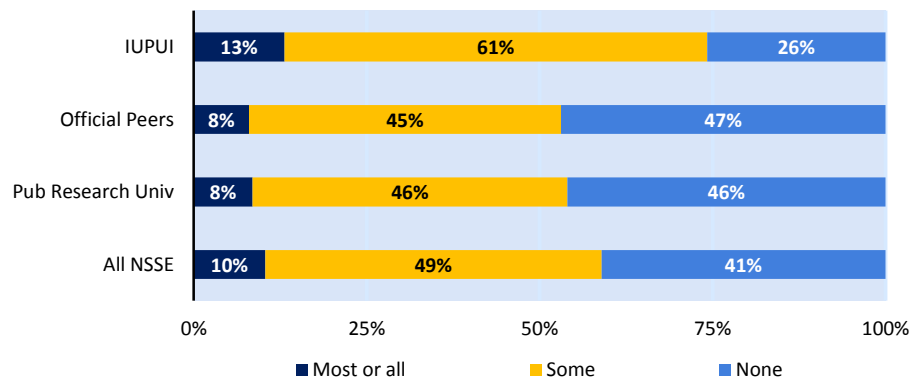
Which of the following have you done or do you plan to do before you graduate?

Participate in a learning community or some other formal program where groups of students take two or more classes together.



Service-Learning

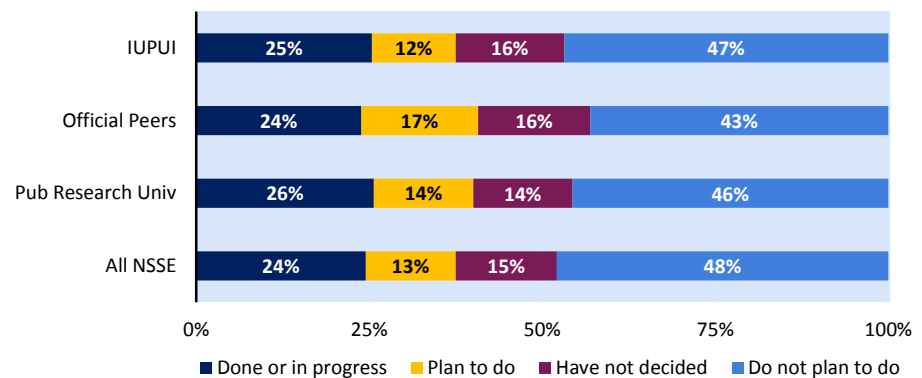
About how many of your courses at this institution have included a community-based project (service-learning)?



Research with a Faculty Member

Which of the following have you done or do you plan to do before you graduate?

Work with a faculty member on a research project.



Note: Results weighted by institution-reported sex and enrollment status (and institutional size for comparison groups).

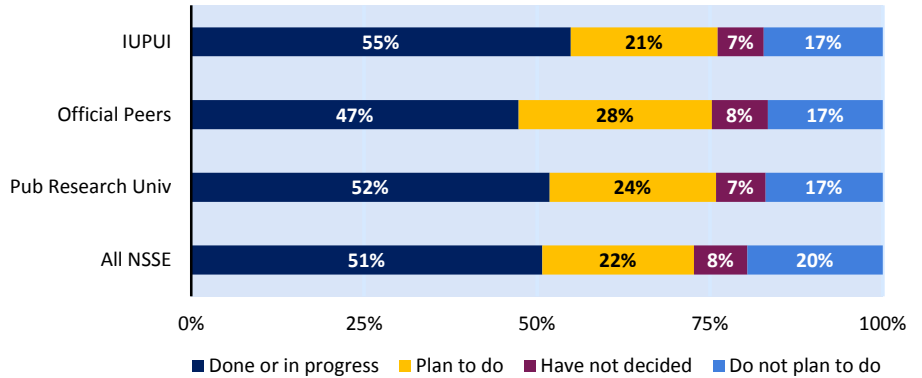
Seniors (continued)

The figures below display further details about each High-Impact Practice for your seniors and those of your comparison groups.

Internship or Field Experience

Which of the following have you done or do you plan to do before you graduate?

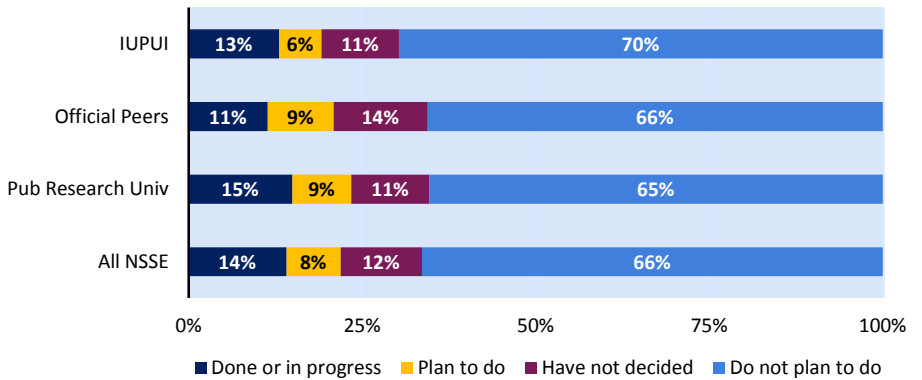
Participate in an internship, co-op, field experience, student teaching, or clinical placement.



Study Abroad

Which of the following have you done or do you plan to do before you graduate?

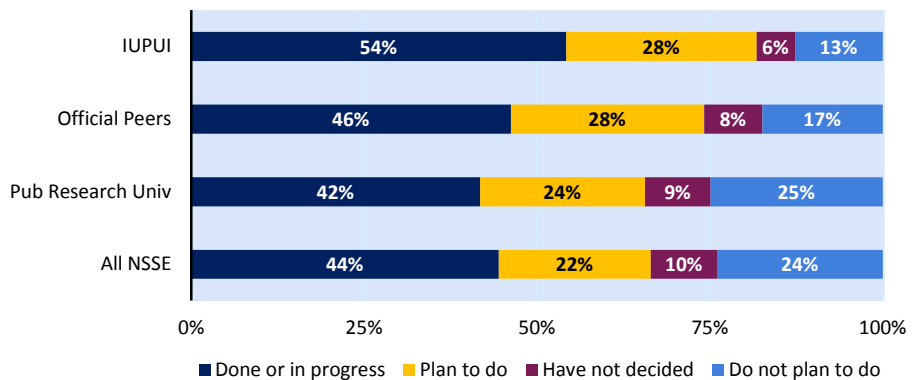
Participate in a study abroad program.



Culminating Senior Experience

Which of the following have you done or do you plan to do before you graduate?

Complete a culminating senior experience (capstone course, senior project or thesis, comprehensive exam, portfolio, etc.).



Note: Results weighted by institution-reported sex and enrollment status (and institutional size for comparison groups).

NSSE 2015 High-Impact Practices

Participation by Student Characteristics

Indiana University-Purdue University Indianapolis

Participation in High-Impact Practices by Student Characteristics

The table below displays the percentage of your students who participated in each HIP by selected student characteristics. Examining participation rates for different groups offers insight into how engagement varies within your student population.

	First-year			Senior					
	Learning Community	Service-Learning	Research with Faculty	Learning Community	Service-Learning	Research with Faculty	Internship or Field Experience	Study Abroad	Culminating Senior Experience
Sex^a	%	%	%	%	%	%	%	%	%
Female	28	71	5	34	81	27	59	12	57
Male	28	67	6	24	66	24	50	14	51
Race/ethnicity or international^a									
American Indian or Alaska Native	—	—	—	—	—	—	—	—	—
Asian	—	—	—	—	—	—	—	—	—
Black or African American	13	67	17	29	84	16	41	10	38
Hispanic or Latino	37	75	10	23	75	32	56	23	60
Native Hawaiian/Other Pac. Islander	—	—	—	—	—	—	—	—	—
White	29	69	4	30	74	27	58	12	56
Other	—	—	—	—	—	—	—	—	—
Foreign or nonresident alien	29	82	13	29	91	21	42	21	63
Two or more races/ethnicities	32	76	0	36	60	28	72	12	60
Age									
Traditional (FY < 21, Seniors < 25):	28	70	6	39	83	32	64	17	65
Nontraditional (FY 21+, Seniors 25+)	10	57	10	21	68	22	48	8	43
First-generation^b									
Not first-generation	25	65	6	29	74	30	57	14	54
First-generation	30	74	6	32	78	24	56	12	56
Enrollment status^a									
Not full-time	0	67	0	16	67	18	39	9	39
Full-time	29	70	6	34	78	28	60	14	59
Residence									
Living off campus	22	70	5	31	76	26	56	13	54
Living on campus	41	69	8	38	65	65	71	29	82
Major category^c									
Arts & humanities	31	50	13	22	71	36	60	19	71
Biological sciences, agriculture, natural res.	19	61	8	31	85	84	75	16	78
Physical sciences, math, computer science	10	43	0	26	46	39	42	11	53
Social sciences	42	67	9	23	90	39	50	18	74
Business	28	84	1	38	91	11	48	11	62
Communications, media, public relations	10	—	20	36	85	33	73	27	76
Education	16	91	3	56	84	19	77	5	33
Engineering	23	47	9	7	27	29	54	14	49
Health professions	33	77	6	42	83	17	61	11	41
Social service professions	30	77	9	43	93	22	67	7	57
Undecided/undeclared	15	69	0	—	—	—	—	—	—
Overall	27	70	5	29	74	25	55	13	54

Notes: 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. Percentages are not reported (—) for row categories containing fewer than 10 students. Results are unweighted, except for overall percentages which are weighted by sex and enrollment status.

a. Institution-reported variable.

b. Neither parent holds a bachelor's degree.

c. These are NSSE's default related-major categories, based on first major if more than one was reported. Institution-customized major categories will be included on the *Major Field Report*, to be released in the fall. Excludes majors categorized as "all other."