



# Indiana University of Pennsylvania

Mean Comparisons

August 2009

# Interpreting the Mean Comparisons Report

## Sample

The *Mean Comparisons* report is based on information from all randomly selected students for both your institution and your comparison institutions. Targeted oversamples and other non-randomly selected students are not included in this report.

## Variables

The items from the NSSE survey appear in the left column in the same order and wording as

## Statistical Significance

## Benchmark

**LAC**=Level of Academic  
Challenge

**ACL**=Active and  
Collaborative Learning

## Effect Size

## NSSE 2009 Mean Comparisons Indiana University of Pennsylvania

				<i>IUP compared with:</i>												
				IUP		PASSHE		Carnegie Class			Selected Peers					
Variable	Benchmark	Class		Mean <sup>a</sup>	Mean <sup>a</sup>	Sig <sup>b</sup>	Effect Size <sup>c</sup>	Mean <sup>a</sup>	Sig <sup>b</sup>	Effect Size <sup>c</sup>	Mean <sup>a</sup>	Sig <sup>b</sup>	Effect Size <sup>c</sup>			
<i>In your experience at your institution during the current school year, about how often have you done each of the following? 1=Never, 2=Sometimes, 3=Often, 4=Very often</i>																
<b>1. Academic and Intellectual Experiences</b>																
a.	Asked questions in class or contributed to class discussions	CLQUEST	ACL	FY	2.75		.01	2.74			2.84	***	-.10	2.78		-.04
				SR	3.15		-.02	3.13		.02	3.07	*	.09			
b.	Made a class presentation	CLPRESEN	ACL	FY	2.09		-.32	2.34	***	-.22	2.26	***	-.22	2.17	***	-.10
				SR	2.88		.03	2.79	**	.11	2.69	***	.23			
c.	Prepared two or more drafts of a paper or assignment before turning it in	REWROPAP		FY	2.69		-.02	2.70		-.06	2.75	*	-.06	2.71		-.03
			SR	2.40		-.04	2.50	**	-.10	2.44		-.05				
d.	Worked on a paper or project that required integrating ideas or information from various sources	INTEGRAT		FY	2.93		-.17	3.06	***	-.25	3.13	***	-.25	3.10	***	-.21
			SR	3.26		-.07	3.34	**	-.11	3.26		.01				
e.	Included diverse perspectives (different races, religions, genders, political beliefs, etc.) in class	DIVCLASS		FY	2.75		.12	2.65	**	.12	2.82	**	-.08	2.80	*	-.06

*Variable*

*Bench-  
mark*





## NSSE 2009 Mean Comparisons Indiana University of Pennsylvania

*IUP compared with:*

Variable	Bench- mark	Class	IUP		PASSHE			Carnegie Class			Selected Peers		
			Mean <sup>a</sup>		Mean <sup>a</sup>	Sig <sup>b</sup>	Effect Size <sup>c</sup>	Mean <sup>a</sup>	Sig <sup>b</sup>	Effect Size <sup>c</sup>	Mean <sup>a</sup>	Sig <sup>b</sup>	Effect Size <sup>c</sup>
		FY	2.99		2.97		.02	2.92	**	.08	2.97		.02
		SR	2.90		2.91		-.01	2.77	***	.13	2.80	**	.10
		FY	3.02		2.94	*	.10	3.11	***	-.12	3.09	**	-.09
		SR											

### 2. Mental Activities



## NSSE 2009 Mean Comparisons Indiana University of Pennsylvania


			<i>IUP compared with:</i>									
			IUP	PASSHE			Carnegie Class			Selected Peers		
Variable	Bench- mark	Class	Mean <sup>a</sup>	Mean <sup>a</sup>	Sig <sup>b</sup>	Effect Size <sup>c</sup>	Mean <sup>a</sup>	Sig <sup>b</sup>	Effect Size <sup>c</sup>	Mean <sup>a</sup>	Sig <sup>b</sup>	Effect Size <sup>c</sup>
b. Community service or volunteer work	VOLNTR04	FY	.32	.27	*	.11	.40	***	-.17	.34		-.06
		SR	.62	.57		.08	.59		.05	.54	***	.16
c. Participate in a learning community or some other formal program where groups of students take two or more classes together	LRNCOM04	FY	.12	.07	**	.14	.17	***	-.15	.20	***	-.21
		SR	.29	.26		.06	.28		.03	.24	*	.11
d. Work on a research project with a faculty member outside of course or program requirements	SR	FY	.05	.03		.08	.06		-.04	.05		-.02
		SR	.19	.19		.01	.17		.06	.16		.07
e.	SR	FY	.16	.12	*	.12	.19	*	-.08	.17		-.04
		SR	.39	.32	**	.14	.37		.03	.36		.05
f.	SR	FY	.03	.02	*	.10	.03		-.02	.03		.01
		SR	.12	.07	***	.18	.12		.01	.11		.04

<i>Variable</i>	<i>Bench- mark</i>	<i>Class</i>	<i>Mean</i> <sup>a</sup>	<i>Mean</i> <sup>a</sup>	<i>Sig</i> <sup>b</sup>	<i>Effect</i>
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<i>Variable</i>	<i>Bench- mark</i>	<i>Class</i>	<i>Mean</i> <sup>a</sup>	<i>Mean</i> <sup>a</sup>	<i>Sig</i> <sup>b</sup>	<i>Effect</i>
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**NSSE 2009 Detailed Statistics <sup>a</sup>**  
**Indiana University of Pennsylvania**  
**First-Year Students**

<b>N</b>	<b>Mean</b>				<b>Standard Error of the Mean <sup>b</sup></b>				<b>Standard Deviation <sup>c</sup></b>			<b>Degrees of Freedom <sup>d</sup></b>			<b>Significance <sup>e</sup></b>			<b>Effect Size <sup>f</sup></b>		
	IUP	PASSHE	Carnegie Class	Selected Peers	IUP	PASSHE	Carnegie Class	Selected Peers	IUP	PASSHE	Carnegie Class	PASSHE	Carnegie Class	Selected Peers	<i>IUP compared with:</i>			<i>IUP compared with:</i>		
															PASSHE	Carnegie Class	Selected Peers	PASSHE	Carnegie Class	Selected Peers

Indiana University of Pennsylvania  
First-Year Students

	N	Mean					Standard Error of the Mean <sup>b</sup>				Standard Deviation <sup>c</sup>				Degrees of Freedom <sup>d</sup>			Significance <sup>e</sup>			Effect Size <sup>f</sup>			
		IUP					IUP				IUP				IUP			IUP			IUP			
				PASSHE	Carnegie Class	Selected Peers		PASSHE	Carnegie Class	Selected Peers		PASSHE	Carnegie Class	Selected Peers		PASSHE	Carnegie Class	Selected Peers		PASSHE	Carnegie Class	Selected Peers		PASSHE
SOCIAL05	1,025	4.01	4.06	3.88	3.88	.05	.06	.02	.02	1.64	1.72	1.69	1.67	1,806	12,872	12,098	.454	.018	.017	-.04	.08	.08		
CAREDE01	1,021	1.51	1.61	1.87	1.81	.04	.04	.02	.02	1.26	1.25	1.74	1.66	1,800	1,383	1,369	.124	.000	.000	-.07	-.21	-.18		
COMMUTE	1,024	2.16	2.19	2.36	2.30	.03	.04	.01	.01	1.00	1.05	1.18	1.10	1,804	1,286	1,263	.552	.000	.000	-.03	-.17	-.13		
ENVSCHOL	1,020	3.03	2.99	3.09	3.10	.02	.03	.01	.01	.74	.77	.77	.78	1,801	1,220	1,238	.264	.005	.001	.05	-.09	-.10		
ENVSUPRT	1,019	2.94	3.03	3.05	3.00	.02	.03	.01	.01	.80	.77	.80	.83	1,795	12,682	11,976	.014	.000	.026	-.12	-.14	-.07		
ENVDIVRS	1,014	2.61	2.67	2.73	2.65	.03	.03	.01	.01	.95	.95	.95	.98	1,793	12,683	11,977	.195	.000	.222	-.06	-.13	-.04		
ENVNACAD	1,019	2.18	2.30	2.28	2.18	.03	.03	.01	.01	.94	.93	.97	.97	1,796	1,212	11,996	.007	.002	.902	-.13	-.10	.00		
ENVSOCAL	1,016	2.44	2.56	2.50	2.41	.03	.03	.01	.01	.93	.92	.95	.95	1,790	12,629	11,941	.010	.088	.329	-.12	-.06	.03		
ENVEVENT	1,017	2.69	2.91	2.80	2.76	.03	.03	.01	.01	.95	.89	.96	.94	1,719	12,687	11,993	.000	.000	.015	-.24	-.12	-.08		
ENVCOMPT	1,019	3.19	3.26	3.35	3.33	.03	.03	.01	.01	.80	.76	.78	.78	1,797	12,704	12,008	.070	.000	.000	-.09	-.20	-.17		
NGNENLED	1,012	3.07	3.16	3.13	3.07	.03	.03	.01	.01	.80	.76	.79	.80	1,781	12,505	11,856	.017	.035	.947	-.11	-.07	.00		
GNWORK	1,014	2.75	2.81	2.82	2.78	.03	.03	.01	.01	.94	.88	.92	.93	1,704	12,503	11,843	.135	.019	.261	-.07	-.08	-.04		
GNWRITE	1,016	2.98	3.02	3.04	2.97	.03	.03	.01	.01	.83	.79	.84	.86	1,783	1,210	1,229	.237	.027	.804	-.06	-.07	.01		
	1,009	2.73	2.93	2.86	2.78	.03	.03	.01	.01	.92	.85	.91	.92	1,715	1,188	11,814	.000	.000	.098	-.23	-.14	-.05		
	1,017	3.11	3.11	3.20	3.17	.03	.03	.01	.01	.81	.79	.79	.79	1,784	1,193	11,826	.973	.000	.018	.00	-.12	-.08		
	1,012	2.81	2.83	2.94	2.93	.03	.03	.01	.01	.86	.89	.87	.87	1,778	12,488	11,739	.497	.000	.000	-.03	-.15	-.14		
	1,019	2.96	2.97	3.09	3.05	.03	.03	.01	.01	.90	.86	.87	.87	1,784	12,527	11,827	.775	.000	.001	-.01	-.15	-.11		
	1,017	2.92	3.01	3.01	2.94	.03	.03	.01	.01	.90	.85	.87	.88	1,702	1,191	11,836	.038	.002	.509	-.10	-.11	-.02		
	1,005	2.74	2.70	2.56	2.56	.03	.04	.01	.01	1.11	1.06	1.08	1.07	1,767	12,276	11,599	.361	.000	.000	.04	.17	.17		
	1,004	2.99	2.97	2.97	2.92	.03	.03	.01	.01	.84	.81	.86	.86	1,758	1,199	1,214	.665	.565	.015	.02	.02	.08		
	1,004	2.83	2.87	2.83	2.75	.03	.03	.01	.01	.96	.92	.96	.98	1,663	12,271	1,213	.361	.971	.010	-.04	.00	.08		
	999	2.70	2.71	2.73	2.69	.03	.03	.01	.01	.97	.91	.96	.97	1,671	12,307	11,589	.760	.321	.852	-.01	-.03	.01		
	1,009	2.65	2.72	2.72	2.68	.03	.03	.01	.01	.95	.88	.93	.94	1,689	12,318	11,588	.128	.025	.374	-.07	-.07	-.03		
	1,007	2.65	2.73	2.71	2.64	.03	.03	.01	.01	.98	.92	.99	.99	1,685	12,313	11,589	.099	.088	.638	-.08	-.06	.02		
	1,009	2.33	2.40	2.48	2.34	.03	.03	.01	.01	.98	.94	.99	.98	1,767	1,202	11,615	.180	.000	.990	-.06	-.15	.00		
	1,006	2.06	2.07	2.18	2.01	.03	.04	.01	.01	1.05	1.01	1.10	1.06	1,768	1,207	11,607	.867	.001	.173	-.01	-.11	.05		
	1,015	2.93	3.06	3.02	2.95	.03	.03	.01	.01	.84	.79	.83	.86	1,781	12,491	11,752	.001	.002	.455	-.16	-.10	-.02		
	1,015	3.10	3.14	3.17	3.12	.02	.03	.01	.01	.72	.70	.72	.72	1,782	1,202	11,738	.244	.005	.348	-.06	-.09	-.03		
	1,016	3.11	3.16	3.19	3.17	.03	.03	.01	.01	.84	.84	.82	.83	1,784	12,505	11,743	.277	.004	.058	-.05	-.09	-.06		

<sup>a</sup> All statistics are weighted by gender, enrollment status, and institutional size.

<sup>b</sup> The 95% confidence interval for the population mean is equal to the sample mean plus/minus the product of 1.96 times the standard error of the mean.

<sup>c</sup> A measure of the average amount individual scores deviate from the mean of all the scores in the distribution.

<sup>d</sup> Degrees of freedom used to compute the t-tests. Values differ from the total Ns due to weighting and the equal variances assumption.

<sup>e</sup> Statistical significance represents the probability that the difference between the mean of your institution and that of the comparison group occurred by chance.

<sup>f</sup>

**NSSE 2009 Detailed Statistics <sup>a</sup>**  
**Indiana University of Pennsylvania**  
**Seniors**

	N	Mean					Standard Error of the Mean <sup>b</sup>				Standard Deviation <sup>c</sup>				Degrees of Freedom <sup>d</sup>			Significance <sup>e</sup>			Effect Size <sup>f</sup>		
							IUP				Carnegie Class				PASSHE			Carnegie Class			Selected Peers		
		IUP	IUP	PASSHE	Carnegie Class	Selected Peers	IUP	Carnegie Class	Selected Peers	IUP	Carnegie Class	Selected Peers	IUP	Carnegie Class	Selected Peers	IUP	Carnegie Class	Selected Peers	IUP	Carnegie Class	Selected Peers	IUP	Carnegie Class
CLQUEST	662	3.15	3.17	3.13	3.07	.03	.02	.01	.01	.83	.83	.85	.86	1,972	21,033	14,082	.660	.543	.031	-.02	.02	.09	
	664	2.88	2.86	2.79	2.69	.03	.02	.01	.01	.83	.84	.89	.87	1,976	713	736	.469	.004	.000	.03	.11	.23	
	659	2.40	2.44	2.50	2.44	.04	.03	.01	.01	.94	1.00	.99	.99	1,382	706	731	.420	.007	.229	-.04	-.10	-.05	
	662	3.26	3.31	3.34	3.26	.03	.02	.01	.01	.76	.75	.74	.78	1,979	21,132	14,129	.167	.007	.853	-.07	-.11	.01	
	664	2.79	2.76	2.88	2.77	.03	.03	.01	.01	.88	.93	.93	.96	1,388	21,109	742	.476	.014	.652	.03	-.10	.02	
	664	2.07	2.07	2.10	2.16	.03	.02	.01	.01	.76	.81	.81	.78	1,978	713	734	.831	.339	.007	.01	-.04	-.11	
	666	2.73	2.65	2.59	2.56	.03	.02	.01	.01	.81	.87	.90	.90	1,424	719	747	.035	.000	.000	.10	.16	.19	
	666	2.74	2.71	2.74	2.72	.03	.02	.01	.01	.83	.86	.93	.92	1,984	719	748	.413	.818	.488	.04	.01	.03	
INTIDEAS	644	2.95	2.92	2.93	2.93	.03	.02	.01	.01	.78	.83	.82	.83	1,366	690	716	.497	.520	.576	.03	.02	.02	
	647	1.86	1.81	1.79	1.85	.04	.03	.01	.01	.92	.94	.93	.94	1,915	20,490	13,760	.222	.065	.671	.06	.07	.02	
COMMPROJ	640	1.73	1.57	1.77	1.62	.03	.02	.01	.01	.87	.81	.92	.89	1,210	20,449	13,682	.000	.289	.004	.18	-.04	.12	
ITACADEM	645	2.79	2.81	2.89	2.84	.04	.03	.01	.01	.97	.98	1.01	1.01	1,914	20,517	13,739	.557	.007	.218	-.03	-.11	-.05	
EMAIL	647	3.50	3.50	3.43	3.38	.03	.02	.01	.01	.66	.67	.74	.75	1,915	700	731	.924	.004	.000	.00	.10	.17	

I:\Data\NSSE\2009\IUP\Detailed\Seniors\Seniors\_Cas.3.m001g.ITI.Cas.6.6.14.001g.ITI.10.09

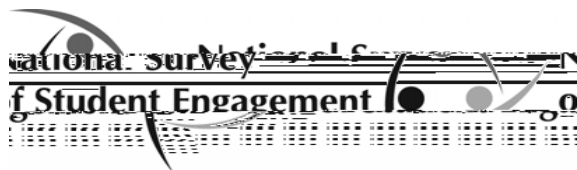
**NSSE 2009 Detailed Statistics <sup>a</sup>**  
**Indiana University of Pennsylvania**  
**Seniors**

N	Mean				Standard Error of the Mean <sup>b</sup>				Standard Deviation <sup>c</sup>				Degrees of Freedom <sup>d</sup>			Significance <sup>e</sup>			Effect Size <sup>f</sup>		
IUP	IUP	PASSHE	Carnegie Class	Selected Peers	IUP	PASSHE	Carnegie Class	Selected Peers	IUP	PASSHE	Carnegie Class	Selected Peers	PASSHE	Carnegie Class	Selected Peers	<i>IUP compared with:</i>			<i>IUP compared with:</i>		
																PASSHE	Carnegie Class	Selected Peers	PASSHE	Carnegie Class	Selected Peers

**NSSE 2009 Detailed Statistics <sup>a</sup>**  
**Indiana University of Pennsylvania**  
**Seniors**

N	Mean	Standard Error of the Mean <sup>b</sup>	Standard Deviation <sup>c</sup>	Degrees of Freedom <sup>d</sup>	Significance <sup>e</sup>	Effect Size <sup>f</sup>
IUP						
IUP						
PASSHE						
Carnegie Class						
Selected Peers						
					PASSHE	
					Carnegie Class	
					Selected Peers	
					PASSHE	
					Carnegie Class	
					Selected Peers	





**NSSE 2009 Mean Comparisons <sup>a</sup>**  
**Pennsylvania State System of Higher Education**  
**Indiana University of Pennsylvania**

<b>IUP</b>	<i>IUP compared with</i> <b>PASSHE</b>
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**Pennsylvania State System of Higher Education Consortium Questions**

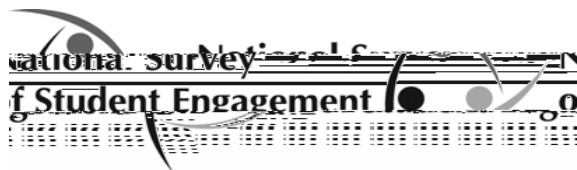
*Refer to the PASSHE consortium codebook for response option values.*

	<i>Variable</i>	<i>Class</i>	<i>Mean</i>	<i>Mean</i>	<i>Sig <sup>b</sup></i>	<i>Effect size <sup>c</sup></i>
<b>1. In the current school year, about how often have you:</b>						
1a. Used a web-based course management system to access the course syllabus, notes or assignments	PAS0901A	FY	3.26	3.31		-.07
		SR	3.21	3.28		-.08
1b. Taken a course that was offered on-line	PAS0901B	FY	1.42	1.56	***	-.17
		SR	1.96	1.90		.05
1c. Participated in a research project supervised by a faculty member	PAS0901C	FY	1.58	1.71	**	-.16
		SR	1.76	1.82		-.06
1d. Attended a university athletic event	PAS0901D	FY	2.09	2.34	***	-.25
		SR	1.85	1.95	*	-.10
1e. Participated in a community-based project (e.g., service learning) as part of an organized university or student government project (not through a course)	PAS0901E	FY	1.63	1.68		-.05
		SR	1.79	1.74		.05
1f. Had meaningful conversations with a faculty member or administrator of a different race or ethnicity than your own	PAS0901F	FY	1.87	1.95		-.08
		SR	2.08	2.23	**	-.15
1g. Had a conversation regarding personal and academic ethics with a faculty member or residence hall staff	PAS0901G	FY	1.89	2.00	*	-.12
		SR	2.04	2.13		-.09
1h. Had meaningful conversations with a person with a disability	PAS0901H	FY	1.72	1.92	***	-.24
		SR	2.02	2.05		-.03
1i. Asked a librarian or library staff member for assistance	PAS0901I	FY	1.79	1.98	***	-.23
		SR	1.95	2.01		-.07
1j. Discussed your learning style with your adviser or staff member	PAS0901J	FY	1.87	1.92		-.06
		SR	1.88	1.98	*	-.11

<sup>a</sup>. Weighted by gender, enrollment status, and institution size

<sup>b</sup>. \* p<.05, \*\* p<.01, \*\*\*p<.001

<sup>c</sup>. Mean difference divided by the pooled s.d.



**NSSE 2009 Mean Comparisons <sup>a</sup>**  
**Pennsylvania State System of Higher Education**  
**Indiana University of Pennsylvania**

<b>IUP</b>	<i>IUP compared with</i> <b>PASSHE</b>
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**Pennsylvania State System of Higher Education Consortium Questions**

*Refer to the PASSHE consortium codebook for response option values.*

		Variable	Class	Mean	Mean	Sig. <sup>b</sup>	Effect size <sup>c</sup>
1k.	Discussed selection of academic majors, minors, or academic concentrations with a faculty or staff member	PAS0901K	FY	2.18	2.36	***	-.21
			SR	2.14	2.26	**	-.13
11.	Discussed career-related topics such as internships, resumes, and references with a faculty or staff member	PAS0901LS	FY	2.01	2.02		-.02
			SR	2.66	2.66		.00
1m.	Discussed your career plans with a faculty or staff member	PAS0901M	FY	2.14	2.19		-.05
			SR	2.62	2.63		-.01
<b>2. During the current school year, how many times have you had:</b>							
2a.	Assignments based on the work of minority author(s)	PAS0902A	FY	2.09	2.09		.00
			SR	2.11	1.94	***	.18
2b.	Assignments that addressed issues in countries other than the United States	PAS0902B	FY	2.27	2.06	***	.25
			SR	2.25	2.06	***	.19

**First-Year Students**

**Seniors**

N	DF <sup>d</sup>	Sig. <sup>e</sup>	Effect size <sup>f</sup>	
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