

# Stony Brook University

Multi-Year Benchmark Report August 2011

## **NSSE** national survey of student engagement

## **Interpreting the Multi-Year Benchmark Report**

For institutions that have participated in multiple NSSE administrations, this *Multi-Year Benchmark Report* presents recalculated and comparable benchmark scores by year so that patterns of change or stability are discernible. It also provides statistics such as *number of respondents, standard deviation,* and *standard error* so that shorthand mean comparison tests can be calculated. This report is necessary because improvements and modifications have been made over time, complicating multi-year analysis of NSSE data. Specifically, the following issues are relevant:

- All items in question 7 were rescaled in 2004, making newer results on these items incompatible with those of 2003 and earlier. Therefore, it is not possible to compare the 2004-2011 Enriching Educational Experiences benchmark with prior years (2001-2003). Also, an alternate version of the Student-Faculty Interaction benchmark labeled 'SFC' removes the 'research with faculty' item, allowing this revised version to be compared with prior years (2001-2003).
- In 2004 NSSE changed the way benchmarks were calculated, requiring that benchmarks prior to 2004 be recalculated to more accurately compare institutional performance across years.
- Scores from NSSE 2000 are not included because several significant changes were made to the survey instrument and benchmarks beginning in 2001, making year-to-year comparisons unsuitable.
- The samples used to develop institutional estimates have been refined in recent years, making direct comparisons of reported benchmarks over the years potentially less stable.

This report has three main parts: (a) a table of *data quality indicators* (p. 3), which provides a quick reference to important statistics for each year's administration, (b) *multi-year charts*, and (c) *detailed statistics*. Key terms and features of (b) and (c) are illustrated below.

For more information and recommendations for analyzing NSSE data over time, consult the *Multi-Year Data Analysis Guide* on the NSSE Web site. **nsse.iub.edu/pdf/MYDAG.pdf** 





**Stony Brook University** 

An important early step in conducting a multi-year analysis is to review the quality of your data in each year for both first-year and senior respondents. The precision of an institution's population estimates can vary from one year to the next. The values in this table were drawn from the *Respondent Characteristics* reports from each NSSE administration.

Year <sup>a</sup>		Resp	onse	Sam	pling	Number of Respondents <sup>e</sup>		
	Mode <sup>b</sup>	Ra	ate <sup>c</sup>	Erı	ror <sup>d</sup>			
		FY	SR	FY	SR	FY	SR	
2001	Paper	29	9%	9.9%	7.9%	95	149	
2002								
2003	Paper	31%	31%	5.3%	5.3%	301	287	
2004								
2005								
2006								
2007								
2008	Paper	30%	34%	7.8%	7.5%	147	164	
2009								
2010								
2011	Web-only	17%	18%	4.1%	3.3%	467	741	

#### **Data Quality Indicators for Each NSSE Participation Year**

<sup>a</sup> All NSSE administration years since 2001 are listed regardless of participation.

<sup>b</sup> Modes include *Paper* (students receive a paper survey, with an option of completing a Web version), *Web* (students receive all correspondence by e-mail and complete the Web version), and *Web*+ (students initially invited to participate via e-mail; a subgroup of nonrespondents receive paper surveys).

<sup>c</sup> Response rates (number of respondents divided by sample size) adjusted for ineligibility, nondeliverable mailing addresses, and students who were unavailable during the survey administration. Before 2003, response rates were not calculated separately by class so overall response rates are reported.

<sup>d</sup> Sampling error gauges the precision of results based on a sample survey. It is an estimate of how much survey item percentages for your respondents could differ from those of the entire population of students at your institution. Data with larger sampling errors (such as +/-10%) need not be dismissed out of hand, but any results using them should be interpreted more conservatively.

<sup>e</sup> This is the original count used to calculate response rates and sampling errors for each administration's *Respondent Characteristics* report. This number includes all randomly sampled students (including those from census administrations). From 2001 to 2005 it may also include targeted oversamples. For this reason, the counts for 2001 to 2005 may not match those given in the detailed statistics on pages 5 and 7.



# NSSE 2011 Multi-Year Benchmark Report

Multi-Year Charts<sup>a</sup>

**Stony Brook University** 

#### **First-Year Students**



# **NSSE** national survey of student engagement

## NSSE 2011 Multi-Year Benchmark Report Detailed Statistics<sup>a</sup>

#### **Stony Brook University**

		First-Year Students										
		2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
Level of	LAC	49.6		53.7					52.0			52.4
Academic	n	68		295					134			413
Challenge	SD	14.4		14.5					14.9			13.5
C	SEM	1.74		.85					1.28			.66
	Upper	53.0		55.3					54.5			53.7
	Lower	46.1		52.0					49.5			51.1
Active and	ACL	31.3		35.7					37.8			38.2
Collaborative	n	68		295					145			466
Learning	SD	13.9		16.0					18.1			17.0
8	SEM	1.69		.93					1.50			.79
	Upper	34.6		37.5					40.7			39.7
	Lower	28.0		33.8					34.8			36.6
Student	SFC	29.5		31.5					33.4			33.3
Faculty	n	68		295					139			427
Interaction <sup>b</sup>	SD	15.8		19.3					20.8			21.6
inter action	SEM	1.92		1.12					1.76			1.04
	Upper	33.3		33.7					36.9			35.3
	Lower	25.7		29.3					30.0			31.3
	SFI	-		-					29.1			28.8
	n	-		-					136			416
	SD	-		-					19.4			19.3
	SEM	-		-					1.66			.95
	Upper	-		-					32.4			30.6
	Lower	-		-					25.8			26.9
Enriching	EEE	-		-					26.3			27.1
Educational	n	-		-					131			400
Experiences <sup>c</sup>	SD	-		-					14.0			14.1
Experiences	SEM	-		-					1.22			.71
	Upper	-		-					28.7			28.5
	Lower	-		-					23.9			25.7
Supportive	SCE	51.4		54.9					53.4			55.5
Campus	n	68		291					131			389
Environment	SD	22.0		17.4					18.6			20.3
	SEM	2.67		1.02					1.63			1.03
	Upper	56.7		56.9					56.6			57.5
	Lower	46.2		52.9					50.2			53.5

<sup>a</sup> n=number of respondents; *SD* =standard deviation; *SEM* =standard error of the mean; Upper/Lower=95% confidence interval limits

<sup>b</sup> Due to a change to the 'research with faculty' item in 2004, statistics for 'SFC' (the alternate version of student-faculty interaction that does not include that item) are reported for all years, and 'SFI' is reported beginning with 2004.

<sup>c</sup> 2001-2003 'EEE' scores are not provided because they are not comparable with those of later years. This is because response options for several of 'EEE' items were substantially altered in 2004.



### **NSSE 2011 Multi-Year Benchmark Report** Multi-Year Charts<sup>a</sup>

#### **Stony Brook University**

#### Seniors





#### Student-Faculty Interaction (SFC)<sup>b</sup>



#### **Enriching Educational Experiences (EEE)**<sup>c</sup>



#### Supportive Campus Environment (SCE)



#### Notes:

- Recalculated benchmark scores are charted for all years a. of participation since 2001. See page 7 for detailed statistics. For more information and recommendations for analyzing multi-year NSSE data, consult the Multi-Year Data Analysis Guide. nsse.iub.edu/pdf/MYDAG.pdf
- b. For institutions with 2001-2003 data, due to a change to the 'research with faculty' item in 2004, 'SFC' (a version of 'SFI' that does not include that item) is charted on this page. Statistics for both versions are provided on page 7.
- c. 2001-2003 'EEE' scores are not provided because response options for several 'EEE' items were altered in 2004, and thus scores are incompatible with those of later years.

6

# **NSSE** national survey of student engagement

## NSSE 2011 Multi-Year Benchmark Report Detailed Statistics<sup>a</sup>

#### **Stony Brook University**

								Seniors				
		2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
Level of	LAC	55.9		54.3					53.9			54.9
Academic	n	108		289					158			630
Challenge	SD	13.9		14.6					14.6			15.0
U	SEM	1.34		.86					1.16			.60
	Upper	58.5		56.0					56.2			56.1
	Lower	53.3		52.6					51.6			53.7
Active and	ACL	42.0		42.2					43.6			44.6
Collaborative	n	108		289					163			739
Learning	SD	15.2		15.4					16.8			18.4
	SEM	1.46		.91					1.31			.68
	Upper	44.8		44.0					46.2			45.9
	Lower	39.1		40.4					41.1			43.3
Student	SFC	38.7		37.9					38.2			39.2
Faculty	n	108		289					158			677
Interaction <sup>b</sup>	SD	21.0		18.9					19.3			22.1
inter action	SEM	2.02		1.11					1.54			.85
	Upper	42.6		40.1					41.2			40.8
	Lower	34.7		35.8					35.2			37.5
	SFI	-		-					36.1			37.1
	n	-		-					158			649
	SD	-		-					18.5			21.2
	SEM	-		-					1.47			.83
	Upper	-		-					39.0			38.8
	Lower	-		-					33.2			35.5
Enriching	EEE	-		-					39.1			39.1
Educational	n	-		-					157			617
Experiences <sup>c</sup>	SD	-		-					17.2			18.2
	SEM	-		-					1.37			.73
	Upper	-		-					41.8			40.6
	Lower	-		-					36.4			37.7
Supportive	SCE	49.9		47.4					52.9			50.9
Campus	n	108		288					156			601
Environment	SD	20.6		18.9					20.5			21.9
	SEM	1.98		1.11					1.64			.89
	Upper	53.8		49.6					56.1			52.7
	Lower	46.1		45.2					49.7			49.1

<sup>a</sup> n=number of respondents; SD =standard deviation; SEM =standard error of the mean; Upper/Lower=95% confidence interval limits

<sup>b</sup> Due to a change to the 'research with faculty' item in 2004, statistics for 'SFC' (the alternate version of student-faculty interaction that does not include that item) are reported for all years, and 'SFI' is reported beginning with 2004.

<sup>c</sup> 2001-2003 'EEE' scores are not provided because they are not comparable with those of later years. This is because response options for several of 'EEE' items were substantially altered in 2004.