

# Western Michigan University

Multi-Year Benchmark Report August 2009



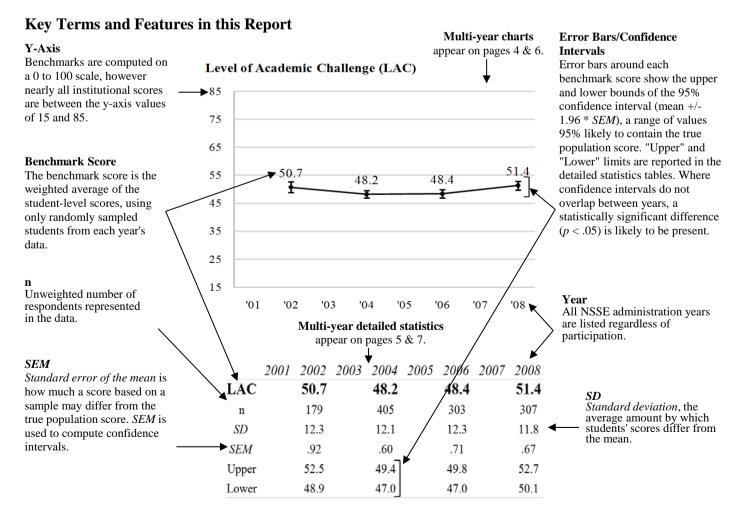
### **Interpreting the Multi-Year Benchmark Report**

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 to NSSE survey items, the construction of benchmarks, and the production of institutional reports, making multi-year analysis of NSSE data more complex. Specifically, the following issues are relevant:

- All items in question 7 were rescaled in 2004, making it untenable to compare newer results on these items with those of 2003 and earlier. Therefore, it is not possible to compare the 2004-2009 Enriching Educational Experiences benchmark with prior years (2001-2003). An alternate version of the Student-Faculty Interaction benchmark labeled 'SFC' is also provided with the 'research with faculty' item removed, allowing this benchmark 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 participation, (b) *multi-year charts*, and (c) *detailed statistics*. Key terms and features of (b) and (c) are described below using data from the fictional "NSSEville State University."

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





# NSSE 2009 Multi-Year Benchmark Report Data Quality Indicators

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Some NSSE administrations at an institution may yield more precise population estimates than others. The values in this table were drawn from the *Respondent Characteristics* reports for each NSSE administration. An important early step in conducting a multi-year analysis is to review the quality of your data for both first-year and senior respondents in each year.

Year <sup>a</sup>	$\mathbf{Mode}^{\mathbf{b}}$	Response Rate <sup>c</sup>		Samp Erro	_		Number of Respondents <sup>e</sup>		
		FY	SR	FY	SR	FY	SR		
2001									
2002	Paper	419	%	5.3%	5.9%	206	183		
2003	Paper	43%	41%	5.9%	6.0%	259	254		
2004									
2005									
2006	Web+	27%	37%	4.0%	3.1%	537	725		
2007									
2008	Web	25%	45%	2.9%	3.0%	907	593		
2009	Web	20%	29%	4.0%	3.1%	526	753		

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

<sup>&</sup>lt;sup>b</sup> Modes include *Paper* (students receive a paper survey and the 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>&</sup>lt;sup>c</sup> Response rates (number of respondents divided by sample size) were 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.

d Sampling error gauges the precision of estimates 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>&</sup>lt;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. 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.



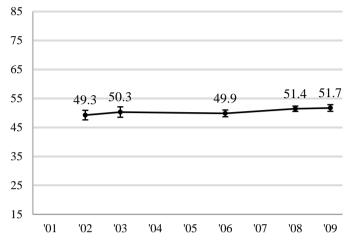
# NSSE 2009 Multi-Year Benchmark Report

Western Michigan University

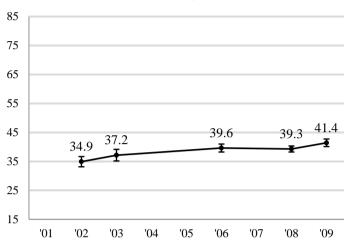
## Multi-Year Charts <sup>a</sup>

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

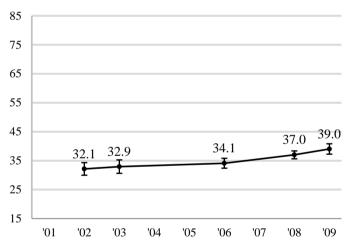
#### Level of Academic Challenge (LAC)



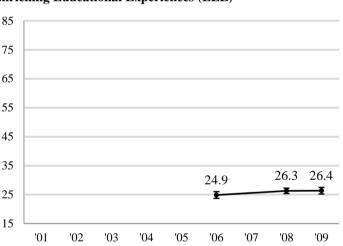
#### **Active and Collaborative Learning (ACL)**



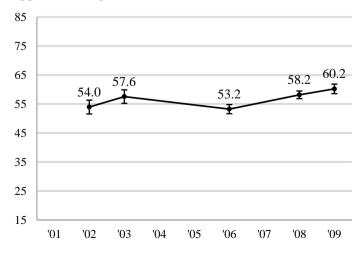
#### Student-Faculty Interaction (SFC)<sup>b</sup>



#### **Enriching Educational Experiences (EEE)**c



#### **Supportive Campus Environment (SCE)**



#### Notes:

- a. Recalculated benchmark scores are charted for all years of participation since 2001. See page 5 for detailed statistics. For more information and recommendations for analyzing multi-year NSSE data, consult the *Multi-Year Data Analysis Guide*: www.nsse.iub.edu/pdf/NSSE Multi-Year Data Analysis Guide.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 5.
- c. 2001-2003 'EEE' scores are not provided because these scores are not comparable with those of later years; response options for several 'EEE' items were altered in 2004.



### NSSE 2009 Multi-Year Benchmark Report

Detailed Statistics a

#### Western Michigan University

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

	Thst-real Students									
		2001	2002	2003	2004	2005	2006	2007	2008	2009
Level of	LAC		49.3	50.3			49.9		51.4	51.7
Academic	n		202	182			482		806	462
Challenge	SD		11.9	12.4			13.1		13.3	12.6
	SEM		.84	.92			.60		.47	.59
	Upper		50.9	52.1			51.0		52.4	52.9
	Lower		47.6	48.5			48.7		50.5	50.6
Active and	ACL		34.9	37.2			39.6		39.3	41.4
Collaborative	n		204	184			535		901	525
Learning	SD		12.8	13.9			16.2		15.9	15.2
	SEM		.90	1.02			.70		.53	.66
	Upper		36.7	39.2			41.0		40.3	42.7
	Lower		33.1	35.1			38.2		38.2	40.1
Student	SFC		32.1	32.9			34.1		37.0	39.0
Faculty	n		204	184			492		844	486
Interaction <sup>b</sup>	SD		15.8	16.0			19.3		20.2	20.2
interaction	SEM		1.11	1.18			.87		.69	.91
	Upper		34.3	35.3			35.8		38.4	40.8
	Lower		30.0	30.6			32.4		35.6	37.2
	SFI		-	-			29.2		32.3	33.3
	n		-	-			485		818	473
	SD		-	-			16.9		18.5	17.4
	SEM		-	-			.77		.65	.80
	Upper		-	-			30.7		33.5	34.8
	Lower		-	-			27.7		31.0	31.7
Enriching	EEE		-	-			24.9		26.3	26.4
Educational	n		-	-			475		772	449
Experiences <sup>c</sup>	SD		-	-			12.8		13.2	12.3
	SEM		-	-			.59		.48	.58
	Upper		-	-			26.0		27.2	27.5
	Lower		-	-			23.7		25.4	25.2
Supportive	SCE		54.0	57.6			53.2		58.2	60.2
Campus	n		202	182			461		752	436
<b>Environment</b>	SD		17.3	16.0			17.2		18.3	17.5
	SEM		1.21	1.19			.80		.67	.84
	Upper		56.3	59.9			54.8		59.5	61.9
	Lower		51.6	55.2			51.7		56.9	58.6

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

IPEDS:172699

<sup>&</sup>lt;sup>b</sup> Due to a change to the 'research with faculty' item in 2004, statistics for 'SFC' (the alternate version of 'SFI' that does not include that item) are reported along with 'SFI' beginning with 2004.

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

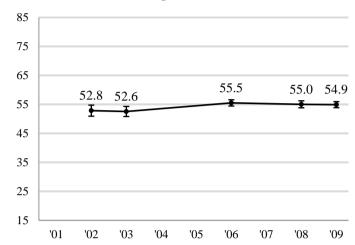


# NSSE 2009 Multi-Year Benchmark Report Multi-Year Charts <sup>a</sup>

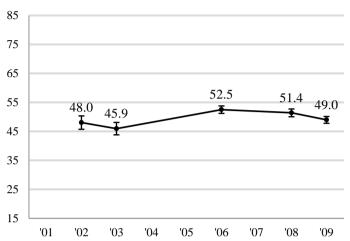
# Western Michigan University

#### Seniors

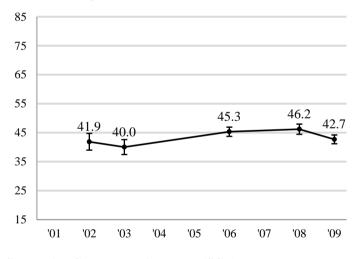
#### Level of Academic Challenge (LAC)



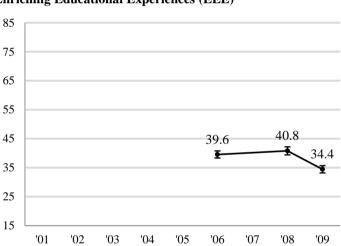
#### **Active and Collaborative Learning (ACL)**



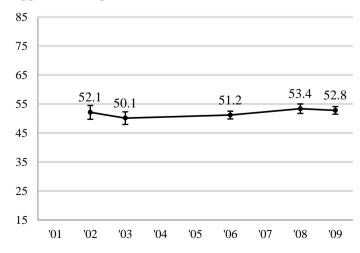
#### Student-Faculty Interaction (SFC)b



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



#### **Supportive Campus Environment (SCE)**



#### Notes:

- a. Recalculated benchmark scores are charted for all years 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*: www.nsse.iub.edu/pdf/NSSE Multi-Year Data Analysis Guide.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 these scores are not comparable with those of later years; response options for several 'EEE' items were altered in 2004.



### NSSE 2009 Multi-Year Benchmark Report

Detailed Statistics a

#### **Western Michigan University**

#### **Seniors**

			Seniors							
		2001	2002	2003	2004	2005	2006	2007	2008	2009
Level of	LAC		52.8	52.6			55.5		55.0	54.9
Academic	n		182	200			689		551	707
Challenge	SD		13.1	12.5			14.4		14.4	14.1
	SEM		.97	.89			.55		.61	.53
	Upper		54.8	54.3			56.6		56.2	56.0
	Lower		50.9	50.8			54.4		53.8	53.9
Active and	ACL		48.0	45.9			52.5		51.4	49.0
Collaborative	n		182	201			723		583	752
Learning	SD		15.9	15.4			17.6		16.6	16.3
g	SEM		1.18	1.09			.65		.69	.59
	Upper		50.4	48.1			53.8		52.7	50.1
	Lower		45.7	43.8			51.2		50.1	47.8
Student	SFC		41.9	40.0			45.3		46.2	42.7
Faculty	n		182	201			700		570	724
Interaction <sup>b</sup>	SD		19.9	18.6			21.5		21.5	20.8
interaction	SEM		1.48	1.31			.81		.90	.77
	Upper		44.8	42.6			46.9		48.0	44.2
	Lower		39.0	37.5			43.7		44.4	41.2
	SFI		-	-			40.4		41.5	38.0
	n		-	-			696		558	709
	SD		-	-			20.6		20.7	19.9
	SEM		-	-			.78		.88	.75
	Upper		-	-			42.0		43.2	39.4
	Lower		-	-			38.9		39.8	36.5
Enriching	EEE		-	-			39.6		40.8	34.4
Educational	n		-	-			673		542	699
Experiences <sup>c</sup>	SD		-	-			16.2		16.5	16.8
	SEM		-	-			.63		.71	.64
	Upper		-	-			40.8		42.2	35.7
	Lower		-	-			38.3		39.4	33.2
Supportive	SCE		52.1	50.1			51.2		53.4	52.8
Campus	n		182	199			663		530	686
Environment	SD		16.4	15.7			17.7		19.2	17.6
	SEM		1.22	1.11			.69		.83	.67
	Upper		54.5	52.3			52.5		55.0	54.1
	Lower		49.7	48.0			49.8		51.7	51.5

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

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<sup>&</sup>lt;sup>b</sup> Due to a change to the 'research with faculty' item in 2004, statistics for 'SFC' (the alternate version of 'SFI' that does not include that item) are reported along with 'SFI' beginning with 2004.

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