



# Cape Breton University

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**Benchmark Comparisons**

August 2012

## Interpreting the Benchmark Comparisons Report

To focus discussions about the importance of student engagement and to guide institutional improvement efforts, NSSE created five Benchmarks of Effective Educational Practice: Level of Academic Challenge, Active and Collaborative Learning, Student-Faculty Interaction, Enriching Educational Experiences, and Supportive Campus Environment. This Benchmark Comparisons Report compares the performance of your institution with your selected comparison groups. In addition, it provides comparisons with two sets of highly engaging institutions, those with benchmarks in the top 50% and top 10% of all NSSE institutions.

Each benchmark is an index of responses to several NSSE questions. Because NSSE questions have different response sets, each question's response set was rescaled from zero to 100, and students' rescaled responses were then averaged. Thus a benchmark score of zero would mean that every student chose the lowest response option for every item, and 100 would mean every student chose the highest response to every item. Although benchmarks are reported on a 0-100 scale, they are not percentages.

Additional details regarding how benchmarks are created can be found on the NSSE Web site. [nsse.iub.edu/links/institutional\\_reporting](http://nsse.iub.edu/links/institutional_reporting)

### Class and Sample

Means are reported for first-year students and seniors. Institution-reported class levels are used. All randomly selected or census-administered students are included in these analyses. Students in targeted or locally administered oversamples are not included.

### Statistical Significance

Benchmarks with mean differences that are larger than would be expected by chance alone are noted with one, two, or three asterisks, denoting one of three significance levels ( $p < .05$ ,  $p < .01$ , and  $p < .001$ ). The smaller the significance level, the smaller the likelihood that the difference is due to chance. Please note that statistical significance does not guarantee that the result is substantive or important. Large sample sizes (as with the NSSE project) tend to produce more statistically significant results even though the magnitude of mean differences may be inconsequential. Consult effect sizes to judge the practical meaning of the results.

### Effect Size<sup>a</sup>

Effect size indicates the practical significance of the mean difference. It is calculated by dividing the mean difference by the pooled standard deviation. In practice, an effect size of .2 is often considered small, .5 moderate, and .8 large. A positive sign indicates that your institution's mean was greater, thus showing an affirmative result for the institution. A negative sign indicates the institution lags behind the comparison group, suggesting that the student behavior or institutional practice represented by the item may warrant attention.

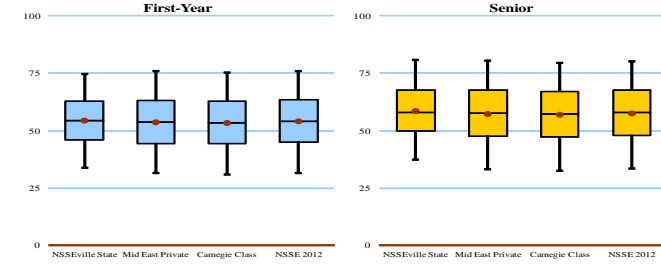
### Level of Academic Challenge (LAC)

#### Mean Comparisons

Class	NSSEville State				NSSEville State University compared with:			
	Mean <sup>a</sup>	Std. Dev. <sup>b</sup>	Effect Size <sup>c</sup>	Significance <sup>d</sup>	Mean <sup>a</sup>	Std. Dev. <sup>b</sup>	Effect Size <sup>c</sup>	Significance <sup>d</sup>
First-Year	54.4	53.7	.05	53.3 *	.08	54.1	.02	
Senior	58.6	57.3 **	.09	56.9 ***	.11	57.5 *	.07	

\* Weighted by gender and institution status. (and by institution size for comparison groups).  
<sup>a</sup>  $p < .05$  <sup>b</sup>  $p < .01$  <sup>c</sup>  $p < .001$  (2-tailed).  
<sup>d</sup> Mean difference divided by the pooled standard deviation.

#### Distributions of Student Benchmark Scores



Note: Each box and whisker chart plots the 5th (bottom of lower bar), 25th (bottom of box), 50th (middle line), 75th (top of box), and 95th (top of upper bar) percentile scores. The dot shows the benchmark mean. See page 2 for an illustration. See pages 8 and 11 for percentile values.

#### Level of Academic Challenge (LAC) Items

- Challenging intellectual and creative work is central to student learning and collegiate quality. Colleges and universities promote high levels of student achievement by emphasizing the importance of academic effort and setting high expectations for student performance.
- Hours spent preparing for class (studying, reading, writing, doing homework or lab work, etc. related to academic program)
- Number of assigned textbooks, books, or book-length packs of course readings
- Number of written papers or reports of 20 pages or more, between 5 and 19 pages, and fewer than 5 pages
- Coursework emphasizes: Analysis of the basic elements of an idea, experience or theory
- Coursework emphasizes: Synthesis and organizing of ideas, information, or experiences into new, more complex interpretations and relationships
- Coursework emphasizes: Making judgments about the value of information, arguments, or methods
- Coursework emphasizes: Applying theories or concepts to practical problems or in new situations
- Working harder than you thought you could to meet an instructor's standards or expectations
- Campus environment emphasizes: Spending significant amount of time studying and on academic work

### Mean

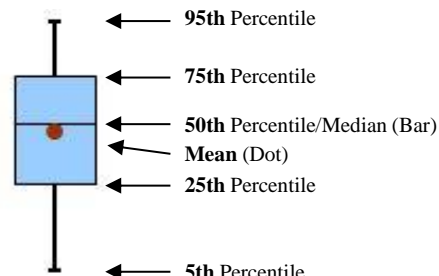
The mean is the weighted arithmetic average of the student level benchmark scores.

### Benchmark Description & Survey Items

A description of the benchmark and the individual items used in its creation is provided.

### Box and Whiskers Key

A box and whiskers chart is a concise way to summarize the variation of student benchmark scores. This display compares the distribution of scores at your institution, in percentile terms, with that of your comparison groups. The ends of the whiskers show the 5th and 95th percentile scores, while the box is bounded by the 25th and 75th percentiles. The bar inside the box indicates the median score, and the dot shows the mean score.



### Box and Whiskers Charts

A visual display of first-year and senior benchmark score dispersion for your institution and your selected comparison or consortium groups.

<sup>a</sup> See *Contextualizing NSSE Effect Sizes* at [nsse.iub.edu/pdf/effect\\_size\\_guide.pdf](http://nsse.iub.edu/pdf/effect_size_guide.pdf) for additional information.

## Level of Academic Challenge (LAC)

### Mean Comparisons

*Cape Breton University compared with:*

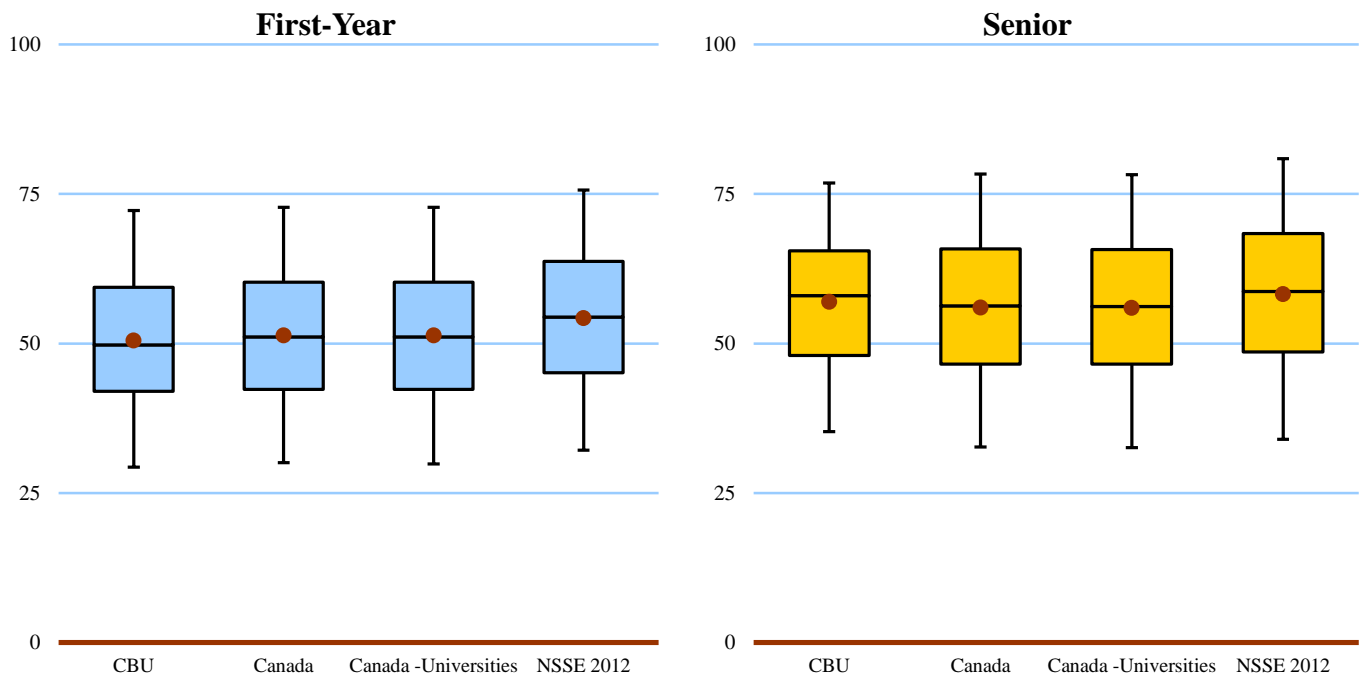
Class	CBU	Canada		Canada -Universities		NSSE 2012		Effect Size <sup>c</sup>
	Mean <sup>a</sup>	Mean <sup>a</sup>	Sig <sup>b</sup>	Mean <sup>a</sup>	Sig <sup>b</sup>	Mean <sup>a</sup>	Sig <sup>b</sup>	
First-Year	50.5	51.4		51.4		54.2	***	-.28
Senior	57.0	56.0		55.9		58.3		-.09

<sup>a</sup> Weighted by gender and enrollment status (and by institution size for comparison groups)

<sup>b</sup> \* p<.05 \*\* p<.01 \*\*\*p<.001 (2-tailed)

<sup>c</sup> Mean difference divided by the pooled standard deviation

### Distributions of Student Benchmark Scores



Note: Each box and whiskers chart plots the 5th (bottom of lower bar), 25th (bottom of box), 50th (middle line), 75th (top of box), and 95th (top of upper bar) percentile scores. The dot shows the benchmark mean. See page 2 for an illustration. See pages 10 and 11 for percentile values.

### Level of Academic Challenge (LAC) Items

Challenging intellectual and creative work is central to student learning and collegiate quality. Colleges and universities promote high levels of student achievement by emphasizing the importance of academic effort and setting high expectations for student performance.

- Hours spent preparing for class (studying, reading, writing, doing homework or lab work, etc.)
- Number of assigned textbooks, books, or book-length packs of course readings
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- Coursework emphasizes: **Applying** theories or concepts to practical problems or in new situations
- Working harder than you thought you could to meet an instructor's standards or expectations
- Campus environment emphasizes: Spending significant amount of time studying and on academic work

## Active and Collaborative Learning (ACL)

### Mean Comparisons

Cape Breton University compared with:

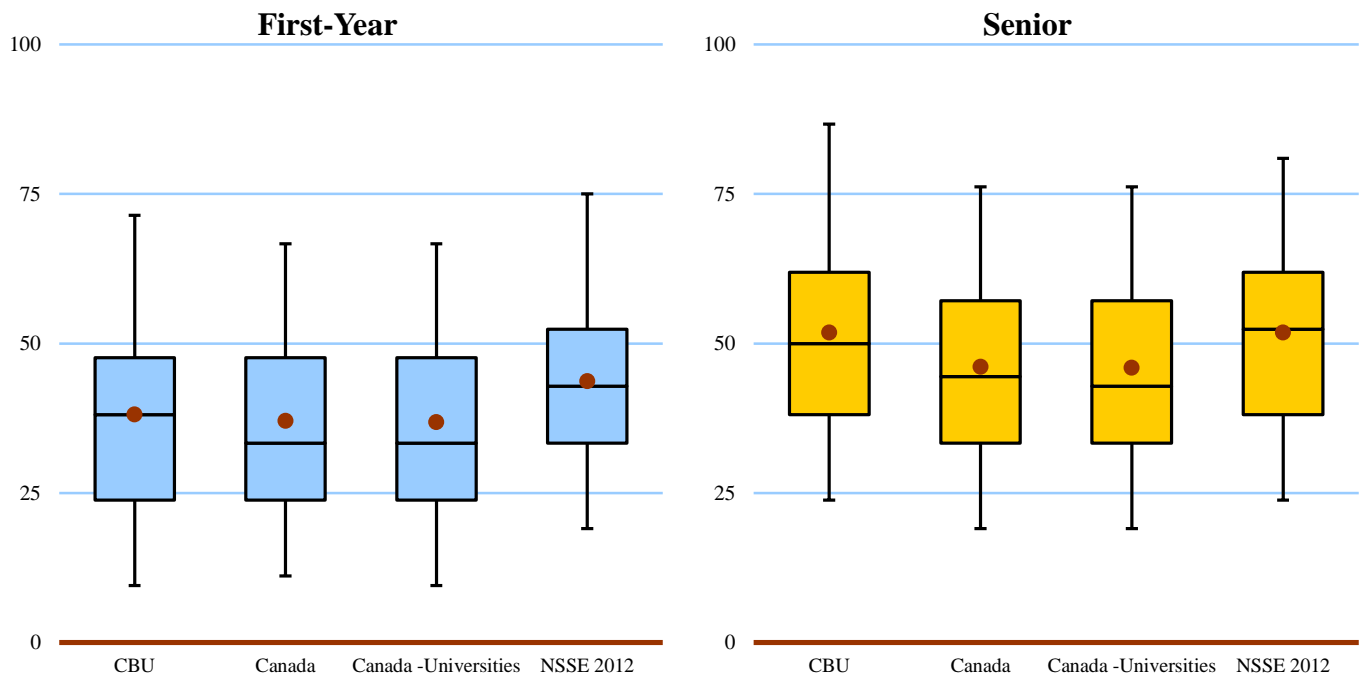
Class	CBU	Canada		Canada -Universities			NSSE 2012		Effect Size <sup>c</sup>
	Mean <sup>a</sup>	Mean <sup>a</sup>	Sig <sup>b</sup>	Mean <sup>a</sup>	Sig <sup>b</sup>	Effect Size <sup>c</sup>	Mean <sup>a</sup>	Sig <sup>b</sup>	
First-Year	38.1	37.1		36.9		.08	43.7	***	-.32
Senior	51.8	46.1	***	45.9	***	.33	51.8		.00

<sup>a</sup> Weighted by gender and enrollment status (and by institution size for comparison groups)

<sup>b</sup> \* p<.05 \*\* p<.01 \*\*\*p<.001 (2-tailed)

<sup>c</sup> Mean difference divided by the pooled standard deviation

### Distributions of Student Benchmark Scores



Note: Each box and whiskers chart plots the 5th (bottom of lower bar), 25th (bottom of box), 50th (middle line), 75th (top of box), and 95th (top of upper bar) percentile scores. The dot shows the benchmark mean. See page 2 for an illustration. See pages 10 and 11 for percentile values.

### Active and Collaborative Learning (ACL) Items

Students learn more when they are intensely involved in their education and asked to think about what they are learning in different settings. Collaborating with others in solving problems or mastering difficult material prepares students for the messy, unscripted problems they will encounter daily during and after college.

- Asked questions in class or contributed to class discussions
- Made a class presentation
- Worked with other students on projects **during class**
- Worked with classmates **outside of class** to prepare class assignments
- Tutored or taught other students (paid or voluntary)
- Participated in a community-based project (e.g., service learning) as part of a regular course
- Discussed ideas from your readings or classes with others outside of class (students, family members, co-workers, etc.)

## Student-Faculty Interaction (SFI)

### Mean Comparisons

Cape Breton University compared with:

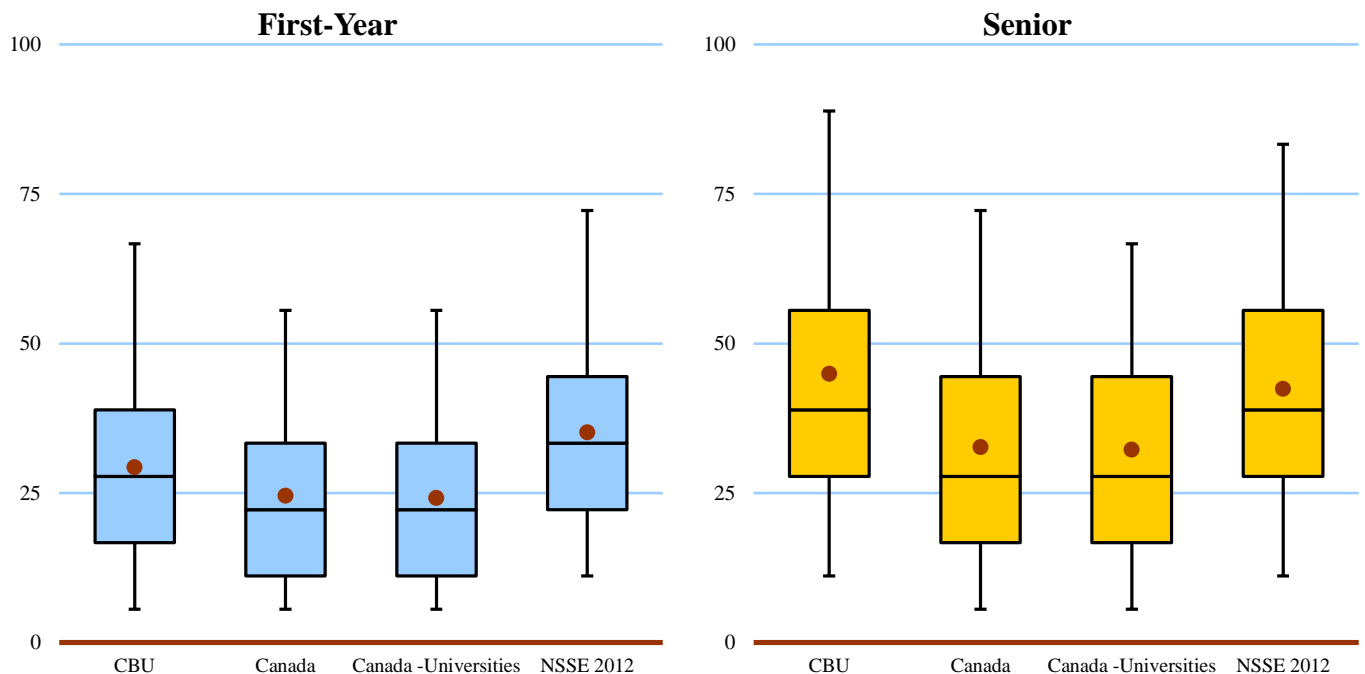
Class	CBU	Canada		Effect Size <sup>c</sup>	Canada -Universities		Effect Size <sup>c</sup>	NSSE 2012		Effect Size <sup>c</sup>
	Mean <sup>a</sup>	Mean <sup>a</sup>	Sig <sup>b</sup>		Mean <sup>a</sup>	Sig <sup>b</sup>		Mean <sup>a</sup>	Sig <sup>b</sup>	
First-Year	29.3	24.5	***	.29	24.2	***	.31	35.1	***	-.31
Senior	44.9	32.7	***	.63	32.3	***	.66	42.4		.12

<sup>a</sup> Weighted by gender and enrollment status (and by institution size for comparison groups)

<sup>b</sup> \* p<.05 \*\* p<.01 \*\*\*p<.001 (2-tailed)

<sup>c</sup> Mean difference divided by the pooled standard deviation

### Distributions of Student Benchmark Scores



Note: Each box and whiskers chart plots the 5th (bottom of lower bar), 25th (bottom of box), 50th (middle line), 75th (top of box), and 95th (top of upper bar) percentile scores. The dot shows the benchmark mean. See page 2 for an illustration. See pages 10 and 11 for percentile values.

### Student-Faculty Interaction (SFI) Items

Students learn firsthand how experts think about and solve practical problems by interacting with faculty members inside and outside the classroom. As a result, their teachers become role models, mentors, and guides for continuous, life-long learning.

- Discussed grades or assignments with an instructor
- Talked about career plans with a faculty member or advisor
- Discussed ideas from your readings or classes with faculty members outside of class
- Worked with faculty members on activities other than coursework (committees, orientation, student-life activities, etc.)
- Received prompt written or oral feedback from faculty on your academic performance
- Worked on a research project with a faculty member outside of course or program requirements

## Enriching Educational Experiences (EEE)

### Mean Comparisons

Cape Breton University compared with:

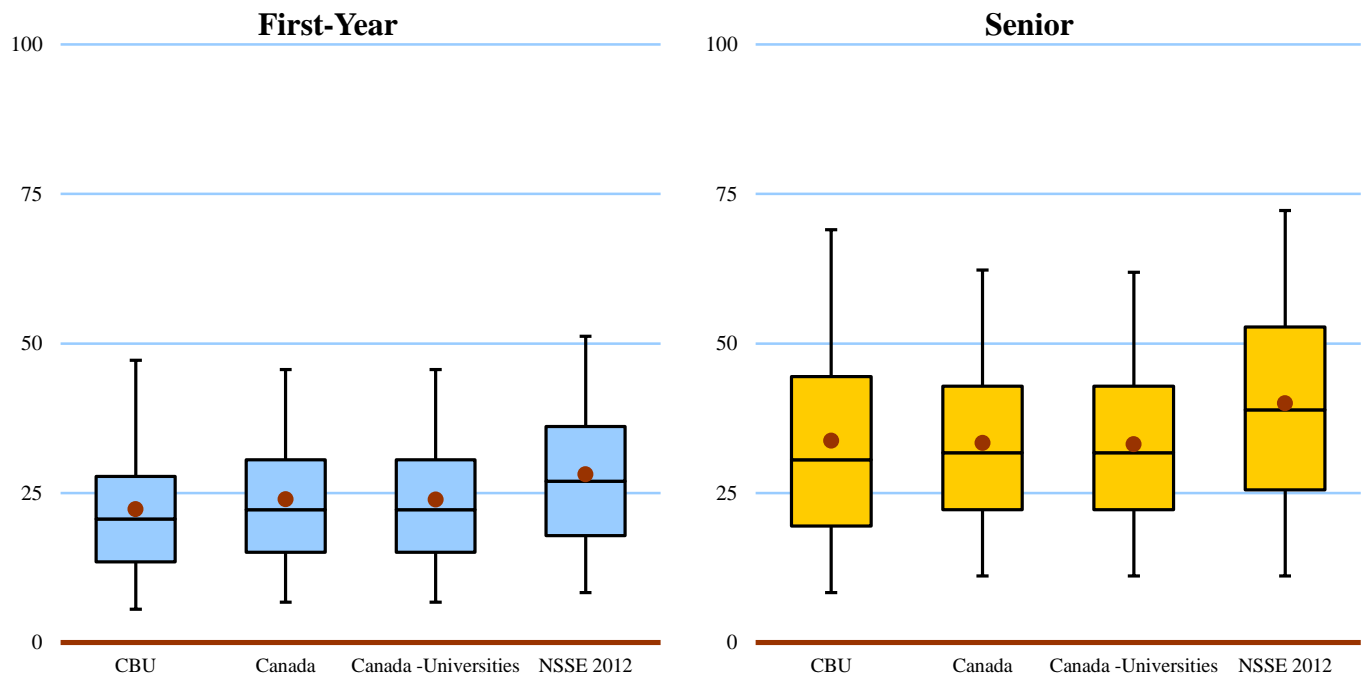
Class	CBU	Canada			Canada -Universities			NSSE 2012		
	Mean <sup>a</sup>	Mean <sup>a</sup>	Sig <sup>b</sup>	Effect Size <sup>c</sup>	Mean <sup>a</sup>	Sig <sup>b</sup>	Effect Size <sup>c</sup>	Mean <sup>a</sup>	Sig <sup>b</sup>	Effect Size <sup>c</sup>
First-Year	22.3	23.9		-.14	23.9		-.13	28.1	***	-.43
Senior	33.8	33.4		.03	33.2		.04	40.0	***	-.34

<sup>a</sup> Weighted by gender and enrollment status (and by institution size for comparison groups)

<sup>b</sup> \* p<.05 \*\* p<.01 \*\*\*p<.001 (2-tailed)

<sup>c</sup> Mean difference divided by the pooled standard deviation

### Distributions of Student Benchmark Scores



Note: Each box and whiskers chart plots the 5th (bottom of lower bar), 25th (bottom of box), 50th (middle line), 75th (top of box), and 95th (top of upper bar) percentile scores. The dot shows the benchmark mean. See page 2 for an illustration. See pages 10 and 11 for percentile values.

### Enriching Educational Experiences (EEE) Items

Complementary learning opportunities enhance academic programs. Diversity experiences teach students valuable things about themselves and others. Technology facilitates collaboration between peers and instructors. Internships, community service, and senior capstone courses provide opportunities to integrate and apply knowledge.

- Hours spent participating in co-curricular activities (organizations, campus publications, student gov., social fraternity or sorority, etc.)
- Practicum, internship, field experience, co-op experience, or clinical assignment
- Community service or volunteer work
- Foreign language coursework and study abroad
- Independent study or self-designed major
- Culminating senior experience (capstone course, senior project or thesis, comprehensive exam, etc.)
- Serious conversations with students of different religious beliefs, political opinions, or personal values
- Serious conversations with students of a different race or ethnicity than your own
- Using electronic medium (e.g., listserv, chat group, Internet, instant messaging, etc.) to discuss or complete an assignment
- Campus environment encouraging contact among students from different economic, social, and racial or ethnic backgrounds
- Participate in a learning community or some other formal program where groups of students take two or more classes together

## Supportive Campus Environment (SCE)

### Mean Comparisons

Cape Breton University compared with:

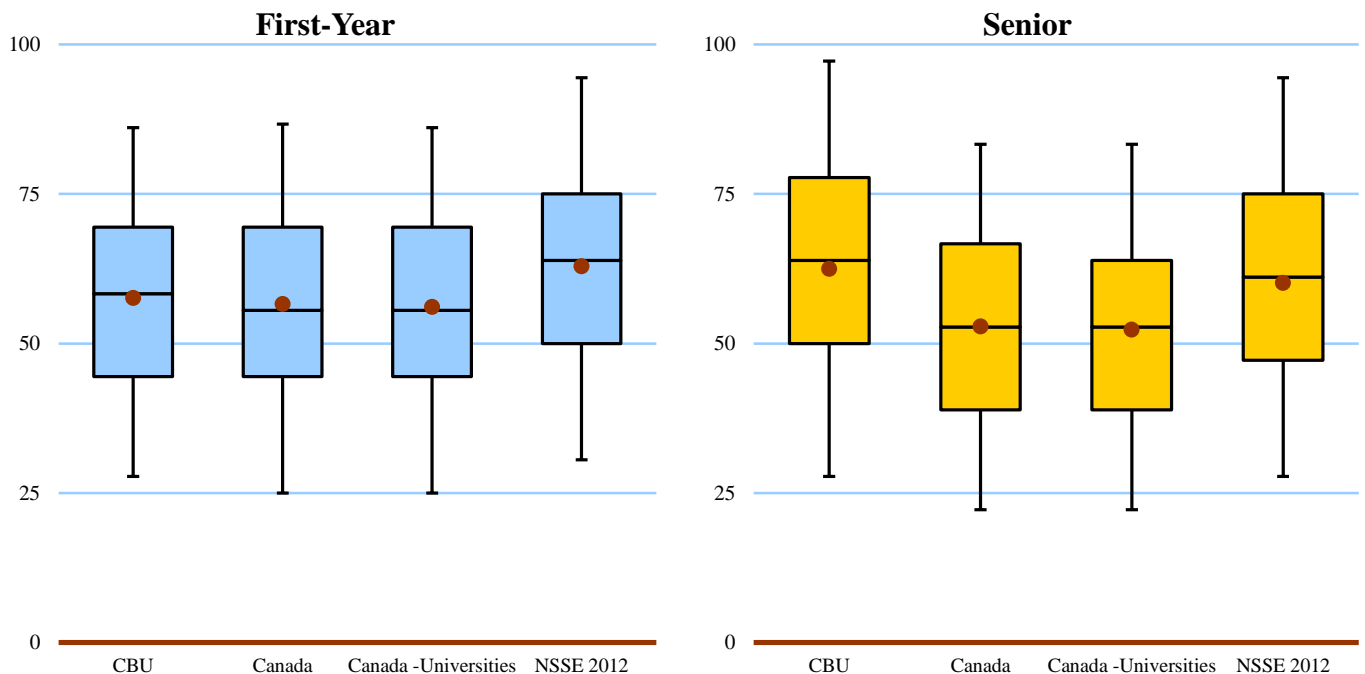
Class	CBU	Canada			Canada -Universities			NSSE 2012		
	Mean <sup>a</sup>	Mean <sup>a</sup>	Sig <sup>b</sup>	Effect Size <sup>c</sup>	Mean <sup>a</sup>	Sig <sup>b</sup>	Effect Size <sup>c</sup>	Mean <sup>a</sup>	Sig <sup>b</sup>	Effect Size <sup>c</sup>
First-Year	57.6	56.6		.06	56.1		.08	62.9	***	-.28
Senior	62.5	52.9	***	.51	52.3	***	.55	60.1		.12

<sup>a</sup> Weighted by gender and enrollment status (and by institution size for comparison groups)

<sup>b</sup> \* p<.05 \*\* p<.01 \*\*\*p<.001 (2-tailed)

<sup>c</sup> Mean difference divided by the pooled standard deviation

### Distributions of Student Benchmark Scores



Note: Each box and whiskers chart plots the 5th (bottom of lower bar), 25th (bottom of box), 50th (middle line), 75th (top of box), and 95th (top of upper bar) percentile scores. The dot shows the benchmark mean. See page 2 for an illustration. See pages 10 and 11 for percentile values.

### Supportive Campus Environment (SCE) Items

Students perform better and are more satisfied at colleges that are committed to their success and cultivate positive working and social relations among different groups on campus.

- Campus environment provides the support you need to help you succeed academically
- Campus environment helps you cope with your non-academic responsibilities (work, family, etc.)
- Campus environment provides the support you need to thrive socially
- Quality of relationships with other students
- Quality of relationships with faculty members
- Quality of relationships with administrative personnel and offices

### Interpreting the Top 10% and Top 50% Comparisons

This section of the NSSE Benchmark Comparisons report allows you to estimate the performance of your average student in relation to the average student attending institutions identified by NSSE for their high levels of student engagement: (a) institutions with benchmark scores placing them in the top 50% of all NSSE schools in 2012 and (b) institutions with benchmark scores in the top 10% for 2012.<sup>a</sup> These comparisons allow an institution to determine if the engagement of their students differs in significant, meaningful ways from students in these high performing institutions.

### Example

		<i>NSSEville State compared with</i>						
		NSSEville State	NSSE 2012 Top 50%			NSSE 2012 Top 10%		
		<i>Mean</i>	<i>Mean</i>	<i>Sig</i>	<i>Effect size</i>	<i>Mean</i>	<i>Sig</i>	<i>Effect size</i>
<b>First-Year</b>	LAC	57.1	55.8	*	.10	60.5	***	-0.28
	ACL	50.3	45.8	***	.28	50.7		-0.02
	SFI	37.3	37.2		.01	42.0	***	-0.24
	EEE	21.8	30.0	***	-.63	34.4	***	-0.98
	SCE	60.9	64.7	***	-.21	69.7	***	-0.49

#### Based on the example above NSSEville State CAN conclude...

- ◆ The average score for NSSEville State first-year students is slightly above (i.e., small positive effect size) that of the average student attending NSSE 2012 schools that scored in the top 50% on Level of Academic Challenge (LAC).
- ◆ The average NSSEville State first-year student is as engaged (i.e., not significantly different) as the average student attending NSSE 2012 schools that scored in the top 10% on Active and Collaborative Learning (ACL).
- ◆ It is *likely* that NSSEville State is in the top 50% of all NSSE 2012 schools for first-year students on Level of Academic Challenge (LAC) and Active and Collaborative Learning (ACL).<sup>a</sup>

#### Based on the example above NSSEville State CANNOT conclude<sup>a</sup>...

- ◆ NSSEville State is in the top half of all schools on the Student-Faculty Interaction (SFI) benchmark for first-year students.
- ◆ NSSEville State is a "top ten percent" institution on Active and Collaborative Learning (ACL) for first-year students.

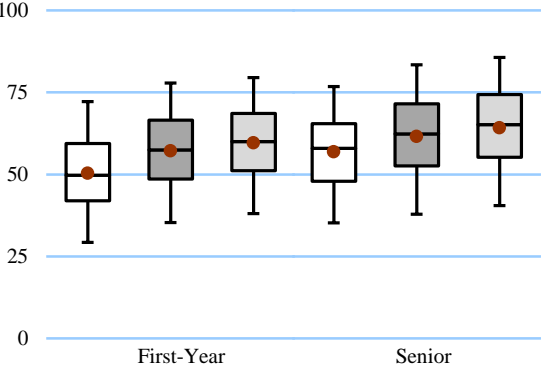
Additional information regarding the Top 50% and Top 10% section of the benchmark report can be found on the NSSE Web site. [nsse.iub.edu/links/institutional\\_reporting](http://nsse.iub.edu/links/institutional_reporting)

<sup>a</sup> Precision-weighted means (produced by Hierarchical Linear Modeling) were used to determine the top 50% and top 10% institutions for each benchmark, separately for first-year and senior students. Using this method, benchmark scores of institutions with relatively large standard errors are adjusted substantially toward the grand mean of all students, while those with smaller standard errors receive smaller corrections. Thus, schools with less stable data, though they may have high scores, may not be identified among the top scorers. NSSE does not publish the names of the top 50% and top 10% institutions because of our commitment not to release individual school results and our policy against the ranking of institutions.

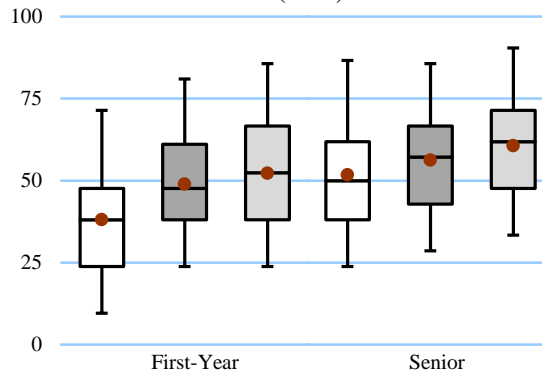
*CBU compared with*

	CBU <i>Mean</i> <sup>a</sup>	NSSE 2012 Top 50%			NSSE 2012 Top 10%		
		<i>Mean</i> <sup>a</sup>	<i>Sig</i> <sup>b</sup>	<i>Effect size</i> <sup>c</sup>	<i>Mean</i> <sup>a</sup>	<i>Sig</i> <sup>b</sup>	<i>Effect size</i> <sup>c</sup>
<b>First-Year</b>	LAC	50.5	57.3 ***	-.52	59.7 ***	-.72	
	ACL	38.1	48.9 ***	-.63	52.2 ***	-.77	
	SFI	29.3	40.1 ***	-.55	44.0 ***	-.70	
	EEE	22.3	31.2 ***	-.65	34.4 ***	-.87	
	SCE	57.6	68.1 ***	-.56	70.6 ***	-.68	
<b>Senior</b>	LAC	57.0	61.7 ***	-.34	64.3 ***	-.53	
	ACL	51.8	56.2 ***	-.26	60.6 ***	-.50	
	SFI	44.9	50.0 **	-.23	55.7 ***	-.49	
	EEE	33.8	48.2 ***	-.79	56.1 ***	-1.28	
	SCE	62.5	65.4 *	-.15	66.9 **	-.22	

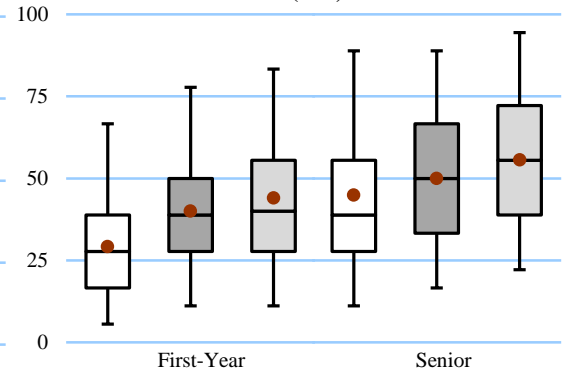
**Level of Academic Challenge (LAC)**



**Active and Collaborative Learning (ACL)**



**Student-Faculty Interaction (SFI)**

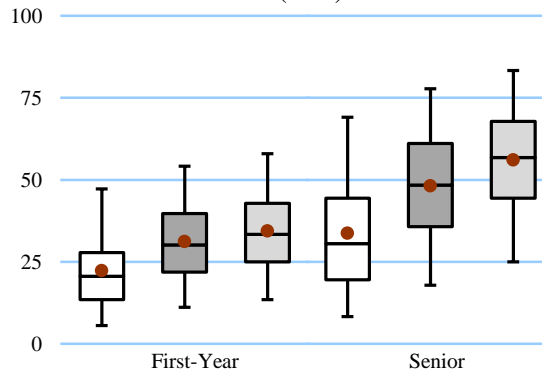


**Legend**

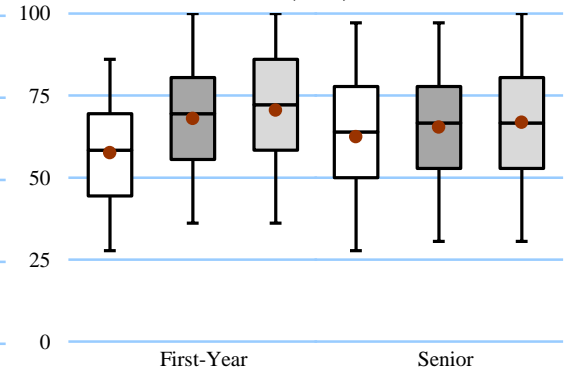
- CBU
- Top 50%
- Top 10%

This display compares your students with those attending schools that scored in the top 50% and top 10% of all NSSE 2012 institutions on a particular benchmark.

**Enriching Educational Experiences (EEE)**



**Supportive Campus Environment (SCE)**



Note: Each box and whiskers chart plots the 5th (bottom of lower bar), 25th (bottom of box), 50th (middle line), 75th (top of box), and 95th (top of upper bar) percentile scores. The dot shows the benchmark mean. See page 2 for an illustration. See pages 10 and 11 for percentile values.

<sup>a</sup> Weighted by gender and enroll. status (and inst. size for comparisons)

<sup>b</sup> \* p<.05 \*\* p<.01 \*\*\*p<.001 (2-tailed)

<sup>c</sup> Mean diff. divided by pooled SD

**First-Year Students**

		Mean Statistics			Distribution Statistics					Reference Group Comparison Statistics			
		Mean	SD <sup>b</sup>	SEM <sup>c</sup>	Percentiles <sup>d</sup>					Deg. of Freedom <sup>e</sup>	Mean Diff.	Sig. <sup>f</sup>	Effect size <sup>g</sup>
					5th	25th	50th	75th	95th				
<b>LEVEL OF ACADEMIC CHALLENGE (LAC)</b>													
	CBU (N = 214)	50.5	13.3	.9	29	42	50	59	72				
	Canada	51.4	13.1	.1	30	42	51	60	73	11,608	-9	.319	-.07
	Canada -Universities	51.4	13.2	.1	30	42	51	60	73	10,850	-9	.327	-.07
	NSSE 2012	54.2	13.4	.0	32	45	54	64	76	165,452	-3.8	.000	-.28
	Top 50%	57.3	13.0	.1	35	49	57	67	78	65,030	-6.8	.000	-.52
	Top 10%	59.7	12.7	.1	38	51	60	69	80	17,107	-9.2	.000	-.72
<b>ACTIVE AND COLLABORATIVE LEARNING (ACL)</b>													
	CBU (N = 227)	38.1	18.0	1.2	10	24	38	48	71				
	Canada	37.1	16.8	.1	11	24	33	48	67	12,780	1.1	.346	.06
	Canada -Universities	36.9	16.8	.2	10	24	33	48	67	11,968	1.3	.261	.08
	NSSE 2012	43.7	17.3	.0	19	33	43	52	75	181,337	-5.6	.000	-.32
	Top 50%	48.9	17.2	.1	24	38	48	61	81	60,346	-10.8	.000	-.63
	Top 10%	52.2	18.4	.1	24	38	52	67	86	15,886	-14.1	.000	-.77
<b>STUDENT-FACULTY INTERACTION (SFI)</b>													
	CBU (N = 215)	29.3	19.0	1.3	6	17	28	39	67				
	Canada	24.5	16.5	.2	6	11	22	33	56	220	4.8	.000	.29
	Canada -Universities	24.2	16.4	.2	6	11	22	33	56	220	5.1	.000	.31
	NSSE 2012	35.1	19.0	.0	11	22	33	44	72	167,416	-5.8	.000	-.31
	Top 50%	40.1	19.7	.1	11	28	39	50	78	50,392	-10.8	.000	-.55
	Top 10%	44.0	21.0	.2	11	28	40	56	83	226	-14.8	.000	-.70
<b>ENRICHING EDUCATIONAL EXPERIENCES (EEE)</b>													
	CBU (N = 208)	22.3	13.0	.9	6	13	21	28	47				
	Canada	23.9	12.3	.1	7	15	22	31	46	11,296	-1.7	.053	-.14
	Canada -Universities	23.9	12.4	.1	7	15	22	31	46	10,558	-1.6	.059	-.13
	NSSE 2012	28.1	13.7	.0	8	18	27	36	51	160,536	-5.9	.000	-.43
	Top 50%	31.2	13.7	.1	11	22	30	40	54	71,261	-8.9	.000	-.65
	Top 10%	34.4	14.0	.1	13	25	33	43	58	13,538	-12.1	.000	-.87
<b>SUPPORTIVE CAMPUS ENVIRONMENT (SCE)</b>													
	CBU (N = 200)	57.6	18.3	1.3	28	44	58	69	86				
	Canada	56.6	18.6	.2	25	44	56	69	87	11,013	1.0	.432	.06
	Canada -Universities	56.1	18.6	.2	25	44	56	69	86	10,282	1.5	.252	.08
	NSSE 2012	62.9	19.1	.0	31	50	64	75	94	156,671	-5.3	.000	-.28
	Top 50%	68.1	18.5	.1	36	56	69	81	100	46,240	-10.4	.000	-.56
	Top 10%	70.6	19.1	.2	36	58	72	86	100	10,474	-13.0	.000	-.68

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

<sup>b</sup> Standard deviation is a measure of the amount the individual scores deviate from the mean of all the scores in the distribution.

<sup>c</sup> Standard Error of the Mean: Use SEM 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.

<sup>d</sup> A percentile is the point in the distribution of student-level benchmark scores at or below which a given percentage of benchmark scores fall.

<sup>e</sup> Degrees of freedom used to compute the t-tests. Values vary for the total Ns due to weighting and whether equal variances were assumed.

<sup>f</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>g</sup> Effect size is calculated by subtracting the comparison group mean from the school mean, and dividing the result by the pooled standard deviation.

**Seniors**

		Mean Statistics			Distribution Statistics					Reference Group Comparison Statistics			
		Mean	SD <sup>b</sup>	SEM <sup>c</sup>	Percentiles <sup>d</sup>					Deg. of Freedom <sup>e</sup>	Mean Diff.	Sig. <sup>f</sup>	Effect size <sup>g</sup>
					5th	25th	50th	75th	95th				
<b>LEVEL OF ACADEMIC CHALLENGE (LAC)</b>													
	CBU (N = 176)	57.0	13.5	1.0	35	48	58	65	77				
	Canada	56.0	13.8	.1	33	47	56	66	78	12,303	1.0	.357	.07
	Canada -Universities	55.9	13.9	.1	33	47	56	66	78	11,646	1.0	.330	.07
	NSSE 2012	58.3	14.3	.0	34	49	59	68	81	233,391	-1.3	.234	-.09
	Top 50%	61.7	13.9	.0	38	53	62	72	83	82,780	-4.7	.000	-.34
	Top 10%	64.3	13.9	.1	40	55	65	74	86	27,397	-7.3	.000	-.53
<b>ACTIVE AND COLLABORATIVE LEARNING (ACL)</b>													
	CBU (N = 181)	51.8	18.8	1.4	24	38	50	62	87				
	Canada	46.1	17.6	.2	19	33	44	57	76	12,951	5.7	.000	.32
	Canada -Universities	45.9	17.6	.2	19	33	43	57	76	12,260	5.9	.000	.33
	NSSE 2012	51.8	17.9	.0	24	38	52	62	81	246,587	.0	1.000	.00
	Top 50%	56.2	17.3	.1	29	43	57	67	86	81,345	-4.4	.001	-.26
	Top 10%	60.6	17.6	.2	33	48	62	71	90	13,572	-8.8	.000	-.50
<b>STUDENT-FACULTY INTERACTION (SFI)</b>													
	CBU (N = 177)	44.9	23.4	1.8	11	28	39	56	89				
	Canada	32.7	19.3	.2	6	17	28	44	72	180	12.2	.000	.63
	Canada -Universities	32.3	19.1	.2	6	17	28	44	67	180	12.7	.000	.66
	NSSE 2012	42.4	21.5	.0	11	28	39	56	83	235,012	2.5	.119	.12
	Top 50%	50.0	22.0	.1	17	33	50	67	89	56,097	-5.1	.002	-.23
	Top 10%	55.7	22.1	.2	22	39	56	72	94	8,312	-10.8	.000	-.49
<b>ENRICHING EDUCATIONAL EXPERIENCES (EEE)</b>													
	CBU (N = 172)	33.8	18.5	1.4	8	19	31	44	69				
	Canada	33.4	15.9	.1	11	22	32	43	62	175	.4	.778	.03
	Canada -Universities	33.2	15.8	.1	11	22	32	43	62	175	.6	.675	.04
	NSSE 2012	40.0	18.5	.0	11	26	39	53	72	228,148	-6.3	.000	-.34
	Top 50%	48.2	18.2	.1	18	36	48	61	78	70,077	-14.4	.000	-.79
	Top 10%	56.1	17.5	.2	25	44	57	68	83	11,915	-22.3	.000	-1.28
<b>SUPPORTIVE CAMPUS ENVIRONMENT (SCE)</b>													
	CBU (N = 171)	62.5	20.1	1.5	28	50	64	78	97				
	Canada	52.9	18.7	.2	22	39	53	67	83	11,921	9.6	.000	.51
	Canada -Universities	52.3	18.6	.2	22	39	53	64	83	11,284	10.2	.000	.55
	NSSE 2012	60.1	19.8	.0	28	47	61	75	94	224,143	2.3	.124	.12
	Top 50%	65.4	19.3	.1	31	53	67	78	97	70,622	-2.9	.048	-.15
	Top 10%	66.9	20.0	.1	31	53	67	81	100	19,190	-4.4	.004	-.22

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

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<sup>c</sup> Standard Error of the Mean: Use SEM 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.

<sup>d</sup> A percentile is the point in the distribution of student-level benchmark scores at or below which a given percentage of benchmark scores fall.

<sup>e</sup> Degrees of freedom used to compute the t-tests. Values vary for the total Ns due to weighting and whether equal variances were assumed.

<sup>f</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>g</sup> Effect size is calculated by subtracting the comparison group mean from the school mean, and dividing the result by the pooled standard deviation.