

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 peers or consortium. In addition, page 9 provides two other comparisons between your school and (a) above-average institutions with benchmarks in the top 50% of all NSSE institutions and (b) high-performing institutions with benchmarks in the top 10% of all NSSE institutions. These displays allow you to determine if the engagement of your typical student differs in a statistically significant, meaningful way from the average student in these comparison groups. They also provide more insight into how the student experience varies on your campus and in comparison groups. Additional details regarding how benchmarks are created can be found on the NSSE Web site.

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 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^a

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.

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.

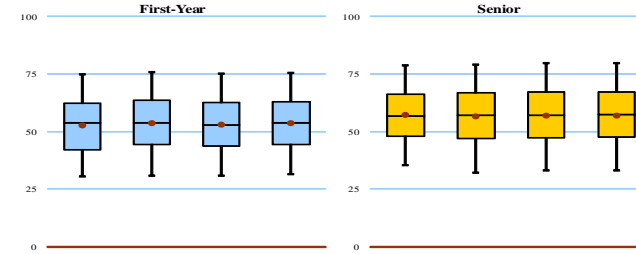
Level of Academic Challenge (LAC)

Mean Comparisons

Class	NSSEville State University compared with:			
	NSSEville State	Mid East Public	Carnegie Class	NSSE 2010
First-Year	Mean = 52.8	Mean = 53.8	Effect Size = -.07	Mean = 53.1
Senior	Mean = 57.2	Mean = 56.6	Effect Size = .05	Mean = 56.9
			Effect Size = -.02	Mean = 53.7
			Effect Size = -.02	Mean = 57.0
			Effect Size = -.06	
			Effect Size = -.01	

††† p < .05 (2-tailed) †††† p < .001 (2-tailed)
*†††† p < .0001 (2-tailed)
††††† p < .00001 (2-tailed)
†††††† p < .000001 (2-tailed)
††††††† p < .0000001 (2-tailed)
†††††††† p < .00000001 (2-tailed)
††††††††† p < .000000001 (2-tailed)
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Distributions of Student Benchmark Scores

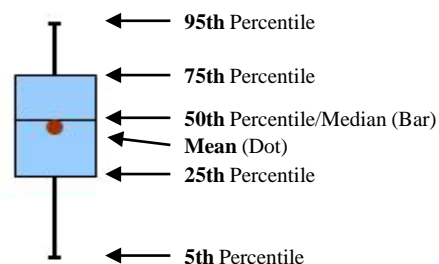


Note: Each box and whiskers chart plots the 5th (bottom of lower bar), 25th (bottom of box), 50th (middle line), 75th (top of box), and 95th (top of upper bar) percentile scores. The dot shows the benchmark mean. See page 2 for an illustration. See pages 10 and 11 for percentile values.

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.

- 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; number of written papers or reports of between 5 and 19 pages; and number of written papers or reports of 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 of 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.



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.