## Institutional Benchmark Report

November 2003

## Western Michigan University

National Survey of Student Engagement

The College Student Report

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## 2003 Institutional Benchmark Report Western Michigan University

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## Introduction

The National Survey of Student Engagement (NSSE) annually assesses the extent to which undergraduate students are involved in educational practices empirically linked to high levels of learning and development. In an effort to make it easier for people on and off campus to talk productively about student engagement and its importance to student learning, collegiate quality, and institutional improvement, NSSE created five clusters or benchmarks of effective educational practice:
(1) Level of academic challenge
(2) Active and collaborative learning
(3) Student-faculty interactions
(4) Enriching educational experiences
(5) Supportive campus environment.

The benchmarks are made up of groups of items on the survey and are expressed in 100-point scales. Each year, NSSE calculates benchmark scores to monitor performance at the institutional, sector, and national level. This year's analysis is based on approximately 185,000 randomly selected students at 649 four-year colleges and universities that participated in 2001, 2002, and 2003. The students represent a broad cross-section of first-year and senior students from every region of the country. The institutions are similar in most respects to the universe of four-year schools. More detailed information about the benchmarks can be found in the annual report that accompanies this mailing and on the NSSE website at www.iub.edu/ nsse.

## Benchmark Report

The Benchmark Report presents your institution's benchmark scores and compares them to schools in your Carnegie Classification, and the NSSE national norms. In addition, it provides summary statistics, a decile chart that gauges your institution's performance compared with other schools, and your Institutional Engagement Index. This index represents the degree to which your students do more or less than expected in terms of their engagement in the five areas of effective educational practice after adjusting for the types of students that attend your school and various institutional characteristics.

NSSE and the benchmarks of effective educational practice provide an instructive way to look at and talk about teaching and learning. Thus, they are intended to help stimulate conversations on campus and help determine whether student behavior and institutional practices are headed in the right direction.

## Level of Academic Challenge



## Active and Collaborative Learning



## Student-Faculty Interaction



## Enriching Educational Experiences

Complementary learning opportunities in and out of class augment 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.


## Supportive Campus Environment



# 2003 Institutional Benchmark Report <br> Western Michigan University 

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| First-Year |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Benchmark | Western Michigan Benchmark Score | Comparis | Group Statisi Doc-Ext | National |
| Level of Academic Challenge | 50.3 | Benchmark Score | 52.3 | 53.9 |
|  |  | Score Difference | -2.0 | -3.5 |
|  |  | Standard Deviation | 3.4 | 4.2 |
|  |  | Standard Score | -0.6 | -0.8 |
| Active and Collaborative Learning | 37.2 | Benchmark Score | 38.1 | 41.8 |
|  |  | Score Difference | -0.9 | -4.6 |
|  |  | Standard Deviation | 2.9 | 4.8 |
|  |  | Standard Score | -0.3 | -1.0 |
| Student-Faculty Interaction | 31.0 | Benchmark Score | 34.0 | 37.2 |
|  |  | Score Difference | -3.0 | -6.2 |
|  |  | Standard Deviation | 2.9 | 5.7 |
|  |  | Standard Score | -1.0 | -1.1 |
| Enriching <br> Educational <br> Experiences | 52.4 | Benchmark Score | 57.6 | 57.7 |
|  |  | Score Difference | -5.2 | -5.3 |
|  |  | Standard Deviation | 4.7 | 7.3 |
|  |  | Standard Score | -1.1 | -0.7 |
| Supportive Campus Environment | 57.5 | Benchmark Score | 58.0 | 61.8 |
|  |  | Score Difference | -0.5 | -4.3 |
|  |  | Standard Deviation | 3.5 | 5.3 |
|  |  | Standard Score | -0.2 | -0.8 |
|  |  | mber of Institutions | 79 | 646 |



## Explanation of Statistics

Benchmark Score: The weighted arithmetic average (mean) of the corresponding survey items, calculated by dividing the sum of values for each item by the total number of students responding to that item. Each benchmark was put on a 100 -point scale. Comparison group benchmark scores are the average of all institutional benchmark scores within the group.

Score Difference: The result of subtracting the comparison group score (Carnegie Classification or national) from your institution's score on each benchmark.
Standard Deviation: The average amount each institution's benchmark score deviates from the mean of all benchmark scores in the comparison group. The greater the dispersion of scores the larger the standard deviation.
Standard Score (SS): In statistical terms, this is a z score, the standardized magnitude of the difference between your school's benchmark score and the mean of the comparison group. It is calculated by dividing the score difference by the standard deviation of the distribution of scores for the comparison group.

Assuming the group means are normally distributed, a SS of 0.5 refers to a benchmark score that is greater than $69 \%$ of all comparison group schools, and 1.0 is greater than $84 \%$. Likewise, a negative SS of -0.5 corresponds to a score that is better than $31 \%$ of the comparision group, and a -1.0 corresponds to an institution score better than only $16 \%$ of the comparison group. A SS of zero indicates that the institution and comparison group benchmark scores are equal, and that the institution's score is higher than roughly $50 \%$ of the other schools in the group. These values are illustrated in the table and chart at the bottom of page 8 of this report.

Also note the sign of the SS. A positive sign means that your institution's score was greater than the comparison group average, thus showing an affirmative result for the institution. A negative sign indicates the institution lags behind, suggesting that the student behavior or institutional practice represented by the benchmark may warrant attention.

# 2003 National Benchmark Deciles Western Michigan University 

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These tables present the range of institutional scores by decile for the five benchmarks of effective educational practice for both firstyear and senior students. Deciles are percentile scores that divide the range of benchmark scores into ten equal groups. A percentile is the point in a distribution at or below which a given percentage of institutional benchmark scores fall. For example, the 60th percentile represents the point at or below which 60 percent of the institutional benchmark scores fall for the respective comparison group. Deciles are listed for both the NSSE national results and for each of the Carnegie Classifications. To help you gauge your institution's performance relative to the comparison groups, the shaded areas on the national and Carnegie Classification tables indicate the deciles that are less than or equal to your benchmark score. For example, if your benchmark score on Academic Challenge for first-year students is 56.1, then your institution falls within the 70th and 80th percentile range on the national table, and between the 80th and 90th percentiles on the Doc-Extensive table.

## Doc-Intensive

Level of Academic Challenge
Active and Collaborative Learning
Student-Faculty Interaction
Enriching Educational Experiences Supportive Campus Environment

## Master's I \& II <br> Level of Academic Challenge <br> Active and Collaborative Learning <br> Student-Faculty Interaction <br> Enriching Educational Experiences <br> Supportive Campus Environment

## Bac-Liberal Arts

Level of Academic Challenge
Active and Collaborative Learning
Student-Faculty Interaction
Enriching Educational Experiences Supportive Campus Environment

## Bac-General Colleges

Level of Academic Challenge
Active and Collaborative Learning
Student-Faculty Interaction
Enriching Educational Experiences
Supportive Campus Environment

|  | First-Year |  |  |  |  |  |  |  |  |  |  |
| :--- | ---: | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| National | $0 \%$ | $10 \%$ | $20 \%$ | $30 \%$ | $40 \%$ | $50 \%$ | $60 \%$ | $70 \%$ | $80 \%$ | $90 \%$ | $100 \%$ |
|  | 44.6 | 48.9 | 50.2 | 51.2 | 52.4 | 53.5 | 54.9 | 55.9 | 57.4 | 59.7 | 68.2 |
| Level of Academic Challenge | 30.5 | 35.6 | 37.4 | 39.1 | 40.4 | 41.5 | 42.8 | 44.0 | 45.8 | 47.9 | 59.8 |
| Active and Collaborative Learning | 23.1 | 30.7 | 32.4 | 33.7 | 35.1 | 36.3 | 37.6 | 39.5 | 41.5 | 44.8 | 74.0 |
| Student-Faculty Interaction | 39.9 | 48.4 | 51.4 | 53.4 | 55.7 | 57.6 | 59.3 | 61.3 | 63.8 | 67.3 | 80.3 |
| Enriching Educational Experiences | 45.55 .1 | 57.3 | 58.7 | 60.1 | 61.6 | 63.0 | 64.5 | 66.4 | 68.8 | 85.4 |  |
| Supportive Campus Environment | 4.6 |  |  |  |  |  |  |  |  |  |  |
|  | $0 \%$ | $10 \%$ | $20 \%$ | $30 \%$ | $40 \%$ | $50 \%$ | $60 \%$ | $70 \%$ | $80 \%$ | $90 \%$ | $100 \%$ |
| Doc-Extensive | 47.0 | 48.5 | 49.5 | 50.0 | 50.6 | 51.4 | 52.5 | 53.6 | 55.2 | 57.1 | 62.1 |
| Level of Academic Challenge | 33.1 | 34.7 | 35.3 | 36.1 | 37.1 | 37.6 | 38.1 | 39.7 | 40.5 | 41.8 | 47.1 |
| Active and Collaborative Learning | 28.7 | 30.5 | 31.9 | 32.4 | 32.9 | 33.5 | 34.0 | 35.2 | 36.0 | 37.8 | 44.2 |
| Student-Faculty Interaction | 47.9 | 51.7 | 53.2 | 54.6 | 56.3 | 57.6 | 58.9 | 59.6 | 60.8 | 63.6 | 71.0 |
| Enriching Educational Experiences | 50.0 | 53.8 | 55.0 | 56.5 | 57.5 | 58.2 | 58.7 | 59.5 | 60.4 | 61.1 | 72.3 |

## $0 \% \quad 10 \% \quad 20 \% \quad 30 \% \quad 40 \% \quad 50 \% \quad 60 \% \quad 70 \% \quad 80 \% ~ 90 \% ~ 100 \%$ $\begin{array}{lllllllllll}46.0 & 48.5 & 50.2 & 51.0 & 51.8 & 52.8 & 53.4 & 54.0 & 55.5 & 57.1 & 60.2\end{array}$ $\begin{array}{lllllllllll}31.4 & 34.6 & 35.5 & 37.5 & 38.2 & 39.4 & 40.5 & 41.9 & 44.0 & 47.7 & 54.0\end{array}$ $\begin{array}{lllllllllll}27.1 & 29.3 & 31.0 & 32.4 & 33.6 & 35.3 & 36.0 & 37.2 & 39.4 & 41.2 & 46.4\end{array}$ $\begin{array}{lllllllllll}45.3 & 48.8 & 50.1 & 51.2 & 52.9 & 55.6 & 57.4 & 59.6 & 60.7 & 64.5 & 68.2\end{array}$ $\begin{array}{lllllllllll}49.3 & 52.2 & 55.3 & 56.6 & 57.5 & 58.5 & 59.1 & 61.2 & 61.8 & 62.3 & 67.3\end{array}$

## $\begin{array}{llllllllll} & 0 \% & 10 \% & 20 \% & 30 \% & 40 \% & 50 \% & 60 \% & 70 \% & 80 \%\end{array} \quad 90 \% \quad 100 \%$

 $\begin{array}{lllllllllll}45.2 & 48.3 & 49.7 & 50.4 & 51.5 & 52.4 & 53.2 & 54.8 & 55.8 & 57.4 & 64.4\end{array}$ $\begin{array}{lllllllllll}30.5 & 35.5 & 37.1 & 38.8 & 40.0 & 41.0 & 41.8 & 43.5 & 44.7 & 46.5 & 54.5\end{array}$ $\begin{array}{lllllllllll}23.1 & 30.0 & 31.6 & 33.2 & 34.4 & 35.4 & 36.6 & 37.7 & 39.7 & 41.6 & 50.0\end{array}$ $\begin{array}{lllllllllll}40.5 & 47.6 & 49.7 & 51.8 & 53.2 & 55.0 & 57.0 & 58.9 & 60.9 & 63.4 & 71.4\end{array}$ $\begin{array}{lllllllllll}45.6 & 55.0 & 56.9 & 58.6 & 59.7 & 61.2 & 62.6 & 63.8 & 65.3 & 67.5 & 73.7\end{array}$ $0 \% \quad 10 \% \quad 20 \% \quad 30 \% \quad 40 \% \quad 50 \% \quad 60 \% \quad 70 \% \quad 80 \% \quad 90 \% \quad 100 \%$ $\begin{array}{lllllllllll}48.9 & 52.6 & 54.4 & 55.7 & 56.9 & 58.0 & 58.9 & 60.2 & 62.1 & 63.2 & 68.2\end{array}$ $\begin{array}{lllllllllll}35.9 & 39.7 & 41.0 & 41.9 & 42.8 & 43.7 & 44.7 & 46.1 & 47.1 & 49.1 & 55.3\end{array}$ $\begin{array}{lllllllllll}30.6 & 35.8 & 38.1 & 39.6 & 40.8 & 41.7 & 43.4 & 45.0 & 47.1 & 48.6 & 59.5\end{array}$ $\begin{array}{lllllllllll}48.4 & 55.2 & 59.5 & 63.0 & 64.5 & 65.9 & 67.9 & 69.4 & 72.3 & 74.1 & 80.3\end{array}$ $\begin{array}{lllllllllll}54.7 & 59.7 & 61.5 & 63.0 & 64.6 & 65.5 & 66.7 & 68.2 & 69.5 & 71.3 & 78.8\end{array}$[^0]| Senior |  |  |  |  |  |  |  |  |  |  |
| ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| $0 \%$ | $10 \%$ | $20 \%$ | $30 \%$ | $40 \%$ | $50 \%$ | $60 \%$ | $70 \%$ | $80 \%$ | $90 \%$ | $100 \%$ |
| 40.3 | 52.6 | 54.2 | 55.1 | 56.0 | 56.8 | 57.7 | 59.0 | 60.2 | 62.6 | 74.0 |
| 38.1 | 44.8 | 46.6 | 47.8 | 48.9 | 49.8 | 50.8 | 52.0 | 53.5 | 55.5 | 65.8 |
| 28.1 | 36.0 | 38.2 | 40.0 | 41.8 | 43.3 | 45.3 | 47.3 | 49.7 | 53.5 | 69.8 |
| 30.5 | 40.6 | 42.5 | 44.4 | 45.9 | 47.7 | 50.6 | 52.6 | 55.1 | 59.0 | 75.3 |
| 44.8 | 51.3 | 53.7 | 55.4 | 57.1 | 58.6 | 60.4 | 61.8 | 63.7 | 66.2 | 76.4 |
| $0 \%$ | $10 \%$ | $20 \%$ | $30 \%$ | $40 \%$ | $50 \%$ | $60 \%$ | $70 \%$ | $80 \%$ | $90 \%$ | $100 \%$ |
| 50.5 | 52.4 | 53.2 | 53.8 | 54.8 | 54.9 | 55.3 | 56.6 | 57.0 | 59.0 | 61.5 |
| 39.3 | 42.8 | 43.7 | 44.8 | 45.5 | 46.2 | 46.7 | 47.4 | 48.3 | 49.5 | 55.7 |
| 30.8 | 36.2 | 37.1 | 37.9 | 38.5 | 39.0 | 40.6 | 41.7 | 43.4 | 44.4 | 49.7 |
| 39.0 | 42.6 | 44.4 | 45.2 | 46.0 | 46.7 | 47.6 | 49.3 | 51.9 | 54.2 | 57.6 |
| 44.9 | 48.5 | 50.1 | 51.2 | 52.2 | 53.4 | 54.1 | 55.3 | 56.7 | 58.1 | 69.1 |

$$
\begin{array}{rcccccccccc}
0 \% & 10 \% & 20 \% & 30 \% & 40 \% & 50 \% & 60 \% & 70 \% & 80 \% & 90 \% & 100 \% \\
\hline 50.9 & 52.4 & 53.6 & 54.2 & 54.7 & 55.2 & 56.1 & 57.0 & 58.0 & 58.9 & 59.6 \\
39.9 & 43.4 & 44.8 & 45.6 & 46.5 & 47.8 & 48.5 & 49.6 & 51.0 & 52.8 & 61.2 \\
30.5 & 34.5 & 35.9 & 37.1 & 39.5 & 41.4 & 42.7 & 43.4 & 44.5 & 47.3 & 50.8 \\
38.3 & 40.4 & 41.4 & 42.3 & 43.6 & 44.8 & 45.9 & 47.9 & 51.7 & 55.5 & 65.6 \\
45.6 & 48.8 & 51.4 & 52.6 & 53.6 & 55.2 & 55.6 & 56.8 & 57.7 & 60.8 & 65.6
\end{array}
$$

## $0 \% \quad 10 \% \quad 20 \% \quad 30 \% \quad 40 \% \quad 50 \% \quad 60 \% \quad 70 \% \quad 80 \% \quad 90 \% \quad 100 \%$

$\begin{array}{lllllllllll}48.5 & 52.6 & 53.7 & 54.9 & 55.6 & 56.2 & 56.9 & 57.7 & 59.0 & 60.7 & 65.4\end{array}$
$\begin{array}{lllllllllll}38.7 & 45.8 & 47.3 & 48.2 & 49.2 & 50.0 & 50.8 & 51.9 & 53.3 & 54.6 & 63.9\end{array}$ $\begin{array}{lllllllllll}28.1 & 35.4 & 37.5 & 39.3 & 40.9 & 42.2 & 43.5 & 45.4 & 47.2 & 49.6 & 57.1\end{array}$ $\begin{array}{lllllllllll}30.5 & 39.9 & 41.4 & 42.6 & 44.5 & 45.7 & 47.3 & 49.4 & 51.9 & 54.7 & 64.0\end{array}$ $\begin{array}{lllllllllll}44.8 & 52.2 & 54.3 & 55.8 & 57.4 & 58.7 & 59.9 & 61.3 & 62.7 & 64.8 & 71.8\end{array}$
$0 \% \quad 10 \% \quad 20 \% \quad 30 \% \quad 40 \% \quad 50 \% \quad 60 \% \quad 70 \% \quad 80 \% \quad 90 \% \quad 100 \%$ $\begin{array}{lllllllllll}52.0 & 56.2 & 58.0 & 59.1 & 60.0 & 60.9 & 62.1 & 63.1 & 64.2 & 66.4 & 72.3\end{array}$ $\begin{array}{lllllllllll}41.9 & 47.1 & 48.9 & 49.9 & 51.0 & 51.8 & 52.6 & 53.7 & 54.4 & 56.9 & 62.0\end{array}$ $\begin{array}{lllllllllll}34.4 & 42.9 & 47.0 & 49.1 & 50.4 & 51.5 & 53.4 & 54.7 & 56.8 & 58.9 & 66.2\end{array}$ $\begin{array}{lllllllllll}35.2 & 47.8 & 51.9 & 53.8 & 55.4 & 56.7 & 58.7 & 60.7 & 63.2 & 67.2 & 75.3\end{array}$ $\begin{array}{lllllllllll}51.3 & 57.3 & 59.8 & 60.7 & 61.7 & 62.5 & 63.9 & 64.8 & 66.1 & 67.1 & 72.5\end{array}$

| $0 \%$ | $10 \%$ | $20 \%$ | $30 \%$ | $40 \%$ | $50 \%$ | $60 \%$ | $70 \%$ | $80 \%$ | $90 \%$ | $100 \%$ |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |

$\begin{array}{lllllllllll}48.5 & 51.4 & 54.8 & 55.8 & 56.5 & 57.3 & 58.2 & 59.0 & 60.2 & 62.0 & 74.0\end{array}$
$\begin{array}{lllllllllll}42.0 & 46.7 & 48.3 & 49.2 & 50.0 & 50.8 & 51.7 & 54.2 & 55.9 & 58.7 & 65.8\end{array}$
$\begin{array}{lllllllllll}32.5 & 36.6 & 39.3 & 41.5 & 44.5 & 45.5 & 46.9 & 48.8 & 49.4 & 52.3 & 69.8\end{array}$
$\begin{array}{lllllllllll}32.5 & 40.1 & 42.6 & 45.3 & 46.5 & 49.0 & 51.5 & 52.6 & 54.8 & 58.9 & 64.8\end{array}$
$\begin{array}{lllllllllll}48.7 & 54.5 & 56.5 & 58.1 & 59.6 & 60.7 & 63.6 & 64.8 & 66.8 & 70.0 & 73.9\end{array}$

This report represents the degree to which your students engage more or less than expected in the five areas of effective educational practice described in the NSSE 2003 Annual Report. The scores are statistically adjusted for the types of students that attend your school and other institutional characteristics. ${ }^{1}$ Thus, the Institutional Engagement Index provides an alternative way to view institutional performance.
The report answers three main questions:

1) If your actual benchmark scores were statistically adjusted for the types of students at your school and other institutional characteristics, what would happen to your benchmark scores?
2) Is your institution doing better or worse than expected given your student and institutional characteristics?
3) How does the difference between your actual and predicted benchmark scores compare to other NSSE colleges and universities?

|  | First-Year |  |  |  | Senior |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Benchmark | Actual ${ }^{2}$ | Predicted ${ }^{3}$ | Residual | Standardized Residual ${ }^{4}$ | Actual ${ }^{2}$ | Predicted ${ }^{3}$ | Residual | Standardized Residual ${ }^{4}$ |
| Level of Academic Challenge | 50.2 | 50.5 | -0.3 | -0.1 | 51.2 | 51.7 | -0.5 | -0.2 |
| Active and Collaborative Learning | 37.2 | 36.5 | 0.6 | 0.2 | 45.9 | 44.7 | 1.2 | 0.4 |
| Student-Faculty Interaction | 31.0 | 32.5 | -1.5 | -0.4 | 37.0 | 38.0 | -1.0 | -0.3 |
| Enriching Educational Experiences | 52.4 | 55.1 | -2.7 | -0.7 | 42.6 | 45.3 | -2.7 | -0.6 |
| Supportive Campus Environment | 57.5 | 58.0 | -0.5 | -0.1 | 50.1 | 52.4 | -2.3 | -0.6 |

The first column "Actual" highlights your institution's first-year and senior actual benchmark scores, which correspond to the numbers reported in the Institutional Benchmark Report, with the exception of Level of Academic Challenge ${ }^{2}$.

The second column "Predicted" represents what your students are predicted or expected to do across this range of important activities, given their background characteristics and selected institutional information. ${ }^{3}$
The third column "Residual" is the difference between the actual and predicted scores. A positive score indicates that students are more engaged in the respective educational practice (and likely benefiting more) than expected. A negative score indicates that students are doing less than expected in these areas of effective educational practice.
The last column is a standardized residual (SR), an estimate of the degree to which your institution exceeded or fell short of its predicted score on each benchmark relative to all other NSSE institutions. It expresses the residual score in standard deviation units. When your school's actual benchmark score is equal to the predicted score both the residual score and the SR are equal to zero. A large, positive SR indicates that your school exceeded its predicted score by a larger margin than most other schools. ${ }^{4}$
The chart below highlights the value of your institution's standardized residuals for each benchmark.


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## Notes to NSSE 2003 Institutional Engagement Index

The information in these notes will help in understanding the Institutional Engagement Index.
${ }^{1}$ Supporting materials related to the Institutional Engagement Index, including the adjusted $\mathrm{R}^{2}$ and regression coefficients, are available on NSSE's website at www.iub.edu/~nsse.

2 The actual score for Level of Academic Challenge reported here may differ somewhat from what is reported on previous pages in the Benchmark Report. The score in the Benchmark Report includes an enrollment status adjustment. This adjustment was not included here because enrollment status is included in the regression model to create the predicted scores for the Institutional Engagement Index.
${ }^{3}$ The following student and institutional characteristics were included in an ordinary least squares regression model to produce the predicted benchmark scores: (a) public/private institutional control, (b) admissions selectivity rating from Barron's Profiles of American Colleges, (c) Carnegie Classification (d) undergraduate enrollment, (e) level of urbanization, (f) proportion full-time, (g) proportion female, (h) proportion of different races/ethnicities, (i) proportion of different student-reported major fields, (j) mean student-reported age and, (k) proportion of students reporting on-campus residence. Unless noted otherwise, institutional and student characteristics were obtained from IPEDS data, the most complete database available. These student and institutional characteristics were included in the regression model since they are not easily changed.
${ }^{4}$ Statistically speaking, the standardized residual is known as the studentized deleted residual or externally studentized residual. To understand how your institution's residuals compare to other NSSE institutions, refer to the table and chart below that applies to both the benchmark standard scores (page 5) and the standardized residual scores.

## Understanding Standard Scores

A standard score of 1.0 indicates a score that is greater than approximately 84 percent of all institutions’ scores; a standard score of .5 indicates the score is greater than about 69 percent of all institutions’ scores. In contrast, a negative standard score of -.5 indicates the score exceeds about 31 percent of all NSSE institutions, and a standard score of -1.0 indicates the score is greater than only 16 percent of the scores of all other NSSE institutions.



[^0]:    $\begin{array}{lllllllllll}0 \% & 10 \% & 20 \% & 30 \% & 40 \% & 50 \% & 60 \% & 70 \% & 80 \% & 90 \% & 100 \%\end{array}$
    $\begin{array}{lllllllllll}44.6 & 49.4 & 51.2 & 52.5 & 53.4 & 53.7 & 54.9 & 55.6 & 56.4 & 57.6 & 61.8\end{array}$
    $\begin{array}{lllllllllll}34.0 & 36.7 & 39.8 & 40.9 & 42.3 & 43.4 & 44.4 & 45.8 & 47.4 & 50.4 & 55.9\end{array}$
    $\begin{array}{lllllllllll}27.2 & 31.8 & 32.8 & 34.7 & 35.9 & 37.1 & 38.6 & 39.6 & 42.1 & 44.7 & 56.5\end{array}$
    $\begin{array}{lllllllllll}42.2 & 44.6 & 50.5 & 53.7 & 56.3 & 57.6 & 58.7 & 60.3 & 61.7 & 64.3 & 71.0\end{array}$
    $\begin{array}{lllllllllll}49.1 & 56.3 & 60.9 & 62.0 & 63.5 & 64.6 & 65.5 & 67.0 & 68.7 & 70.0 & 73.9\end{array}$

