# NSSE
## national survey of student engagement

# Marshall University

## Multi-Year Benchmark Report
### August 2011

# Interpreting the Multi-Year Benchmark Report

## Key Terms and Features in this Report

**Multi-year charts**
appear on pages 4 & 6

**Y-Axis**
Benchmarks are computed on a 0 to 100 scale, however nearly all institutional scores are between the y-axis values of 15 and 85.

**Error Bars/Confidence Intervals**
Error bars around each benchmark score show the upper and lower bounds of the 95% confidence interval (mean +/- 1.96 * *SEM*), a range of values 95% likely to contain the true population score. "Upper" and "Lower" limits are also reported in the detailed statistics tables. Where confidence intervals do not overlap between years, a statistically significant difference ($p < .05$) is likely to be present.

**Benchmark Score**
The benchmark score is the weighted average of the students' scores, using only randomly sampled students (including those from census administrations) from each year's data.

**n**
Unweighted number of respondents represented in the data.

**Multi-year detailed statistics**
appear on pages 5 & 7

**Year**
All NSSE administration years since 2004 are listed regardless of participation.

|  | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 |
|---|---|---|---|---|---|---|---|
| **LAC** | **48.2** |  | **48.4** |  | **51.4** |  | **52.7** |
| n | 405 |  | 303 |  | 307 |  | 155 |
| SD | 12.1 |  | 12.3 |  | 11.8 |  | 13.7 |
| SEM | .60 |  | .71 |  | .67 |  | 1.10 |
| Upper | 49.4 |  | 49.8 |  | 52.7 |  | 54.9 |
| Lower | 47.0 |  | 47.0 |  | 50.1 |  | 50.6 |

*SEM*
*Standard error of the mean* is how much a score based on a sample may differ from the true population score. *SEM* is used to compute confidence intervals.

*SD*
*Standard deviation*, the average amount by which students' scores differ from the mean.

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.

## Data Quality Indicators for Each NSSE Participation Year

| Year[a] | Mode[b] | Response Rate[c] | | Sampling Error[d] | | Number of Respondents[e] | |
|---------|---------|------|------|------|------|------|------|
| | | FY | SR | FY | SR | FY | SR |
| 2004 | | | | | | | |
| 2005 | | | | | | | |
| 2006 | | | | | | | |
| 2007 | | | | | | | |
| 2008 | Web-only | 18% | 23% | 4.7% | 4.2% | 356 | 459 |
| 2009 | Web-only | 37% | 34% | 3.4% | 3.3% | 512 | 582 |
| 2010 | Web-only | 21% | 32% | 4.6% | 3.5% | 351 | 547 |
| 2011 | Web-only | 22% | 25% | 4.5% | 3.9% | 372 | 464 |

[a] All NSSE administration years since 2004 are listed regardless of participation.

[b] 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).

[c] Response rates (number of respondents divided by sample size) adjusted for ineligibility, nondeliverable mailing addresses, and students who were unavailable during the survey administration.

[d] 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.
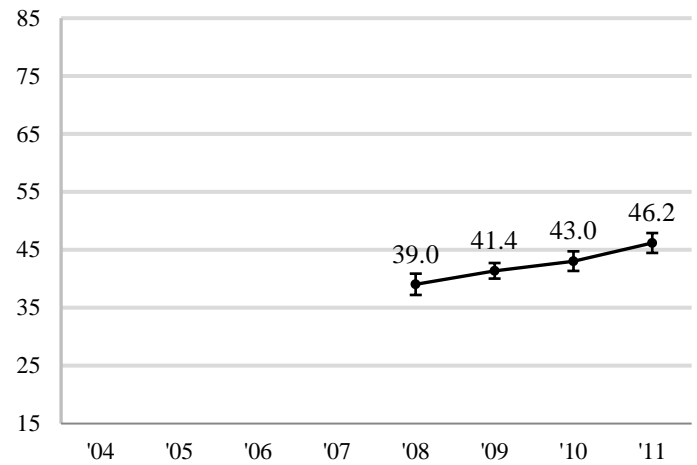
[e] This is the original count used to calculate response rates and sampling errors for each administration's *Respondent Characteristics* report. This number includes all randomly sampled students (including those from census administrations). In 2004 and 2005 it may also include targeted oversamples. For this reason, the counts for 2004 and 2005 may not match those given in the detailed statistics on pages 5 and 7.

**NSSE**
national survey of
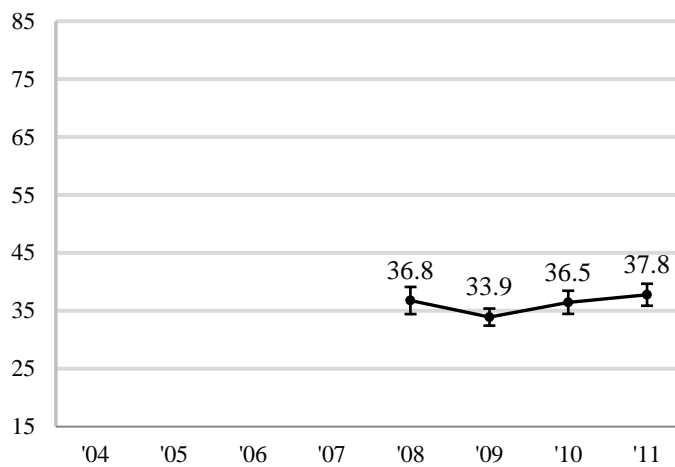student engagement

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## First-Year Students

### Level of Academic Challenge (LAC)
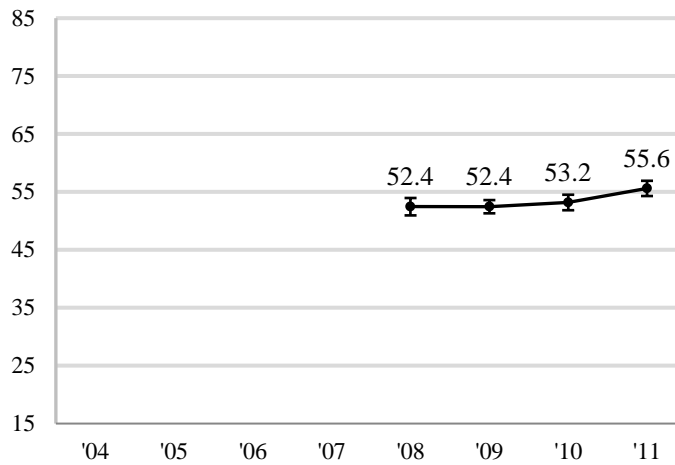
| | '04 | '05 | '06 | '07 | '08 | '09 | '10 | '11 |
|---|---|---|---|---|---|---|---|---|
| | | | | | 52.4 | 52.4 | 53.2 | 55.6 |

### Active and Collaborative Learning (ACL)

| | '04 | '05 | '06 | '07 | '08 | '09 | '10 | '11 |
|---|---|---|---|---|---|---|---|---|
| | | | | | 39.0 | 41.4 | 43.0 | 46.2 |

### Student-Faculty Interaction (SFI)

| | '04 | '05 | '06 | '07 | '08 | '09 | '10 | '11 |
|---|---|---|---|---|---|---|---|---|
| | | | | | 36.8 | 33.9 | 36.5 | 37.8 |

### Enriching Educational Experiences (EEE)

| | '04 | '05 | '06 | '07 | '08 | '09 | '10 | '11 |
|---|---|---|---|---|---|---|---|---|
| | | | | | 25.4 | 26.1 | 25.1 | 25.0 |

### Supportive Campus Environment (SCE)

| | '04 | '05 | '06 | '07 | '08 | '09 | '10 | '11 |
|---|---|---|---|---|---|---|---|---|
| | | | | | 59.9 | 60.9 | 61.3 | 62.5 |

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# NSSE 2011 Multi-Year Benchmark Report
## Detailed Statistics[a]

## Marshall University
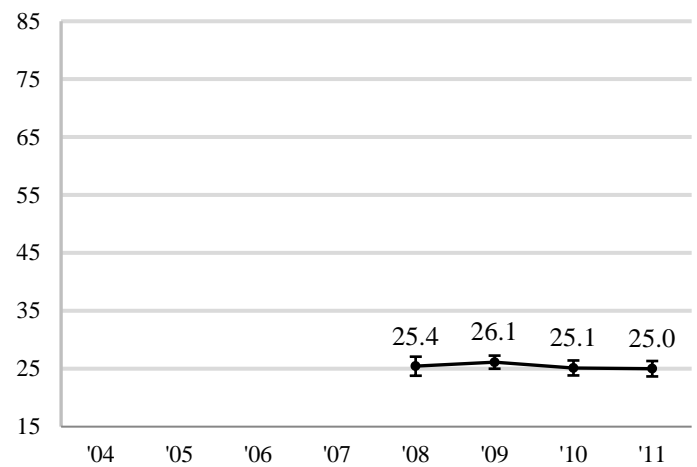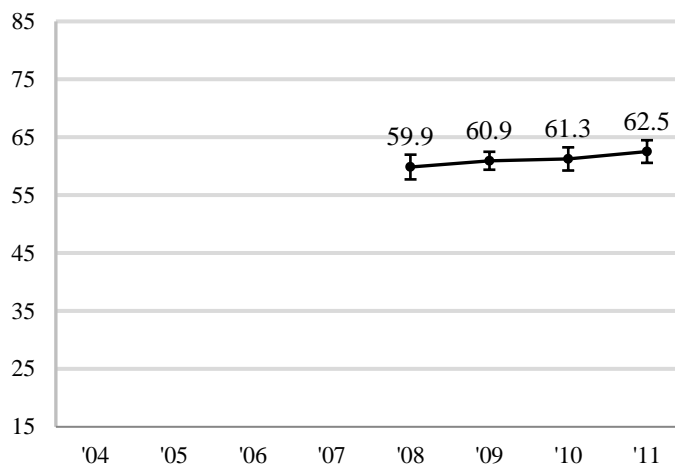
### First-Year Students

| | | *2004* | *2005* | *2006* | *2007* | *2008* | *2009* | *2010* | *2011* |
|---|---|---|---|---|---|---|---|---|---|
| **Level of Academic Challenge** | **LAC** | | | | | **52.4** | **52.4** | **53.2** | **55.6** |
| | n | | | | | 310 | 492 | 335 | 358 |
| | *SD* | | | | | 13.5 | 12.9 | 12.5 | 12.7 |
| | *SEM* | | | | | .77 | .58 | .68 | .67 |
| | Upper | | | | | 54.0 | 53.6 | 54.5 | 56.9 |
| | Lower | | | | | 50.9 | 51.3 | 51.8 | 54.3 |
| **Active and Collaborative Learning** | **ACL** | | | | | **39.0** | **41.4** | **43.0** | **46.2** |
| | n | | | | | 354 | 504 | 351 | 371 |
| | *SD* | | | | | 17.7 | 15.4 | 16.2 | 16.9 |
| | *SEM* | | | | | .94 | .69 | .86 | .88 |
| | Upper | | | | | 40.9 | 42.7 | 44.7 | 47.9 |
| | Lower | | | | | 37.2 | 40.0 | 41.4 | 44.5 |
| **Student Faculty Interaction** | **SFI** | | | | | **36.8** | **33.9** | **36.5** | **37.8** |
| | n | | | | | 312 | 491 | 337 | 357 |
| | *SD* | | | | | 21.1 | 16.7 | 18.7 | 18.3 |
| | *SEM* | | | | | 1.20 | .75 | 1.02 | .97 |
| | Upper | | | | | 39.1 | 35.4 | 38.5 | 39.7 |
| | Lower | | | | | 34.4 | 32.4 | 34.5 | 35.9 |
| **Enriching Educational Experiences** | **EEE** | | | | | **25.4** | **26.1** | **25.1** | **25.0** |
| | n | | | | | 301 | 491 | 329 | 354 |
| | *SD* | | | | | 14.5 | 12.8 | 12.0 | 12.8 |
| | *SEM* | | | | | .84 | .58 | .66 | .68 |
| | Upper | | | | | 27.1 | 27.3 | 26.4 | 26.3 |
| | Lower | | | | | 23.8 | 25.0 | 23.8 | 23.7 |
| **Supportive Campus Environment** | **SCE** | | | | | **59.9** | **60.9** | **61.3** | **62.5** |
| | n | | | | | 296 | 479 | 322 | 347 |
| | *SD* | | | | | 18.7 | 17.3 | 18.3 | 18.6 |
| | *SEM* | | | | | 1.09 | .79 | 1.02 | 1.00 |
| | Upper | | | | | 62.0 | 62.5 | 63.3 | 64.5 |
| | Lower | | | | | 57.7 | 59.4 | 59.3 | 60.6 |

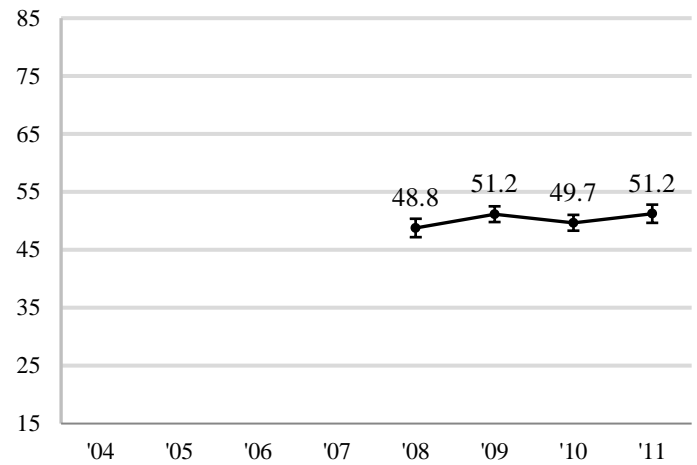[a] n=number of respondents; *SD* =standard deviation; *SEM* =standard error of the mean; Upper/Lower=95% confidence interval limits

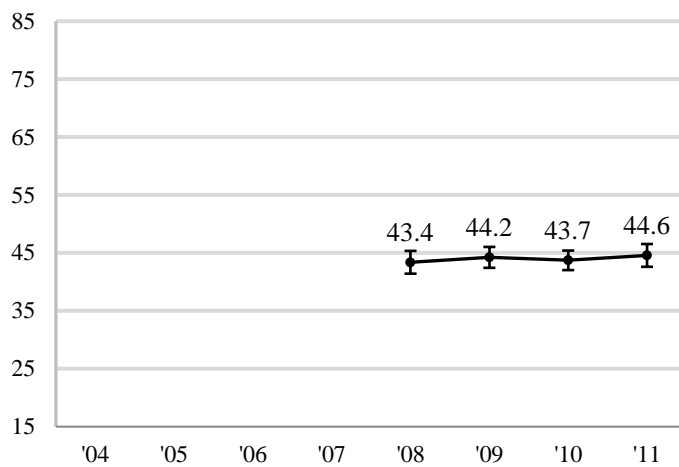IPEDS: 237525

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**Seniors**

### Level of Academic Challenge (LAC)
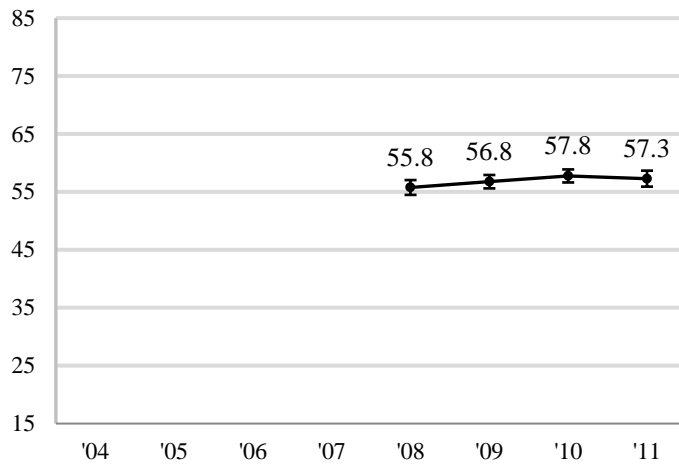
55.8   56.8   57.8   57.3

### Active and Collaborative Learning (ACL)

48.8   51.2   49.7   51.2

### Student-Faculty Interaction (SFI)

43.4   44.2   43.7   44.6

### Enriching Educational Experiences (EEE)

40.9   41.3   41.2   41.6

### Supportive Campus Environment (SCE)

57.6   58.1   58.0   57.0
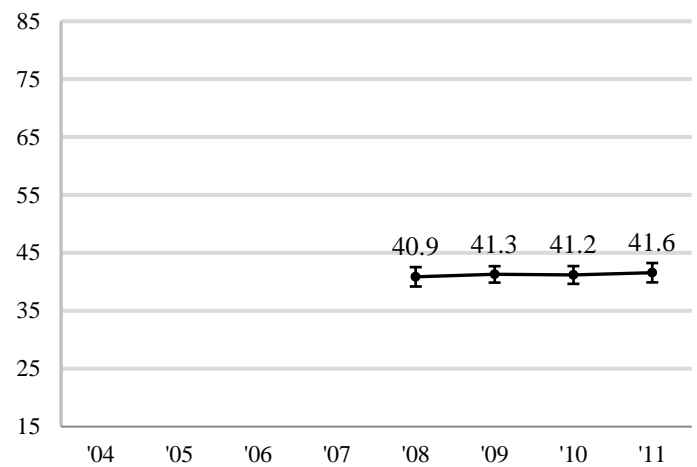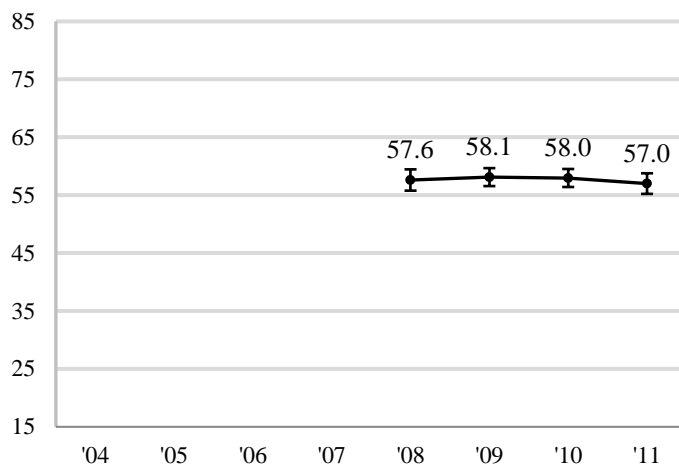
|  |  | Seniors | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
|  |  | *2004* | *2005* | *2006* | *2007* | *2008* | *2009* | *2010* | *2011* |
| **Level of Academic Challenge** | **LAC** |  |  |  |  | **55.8** | **56.8** | **57.8** | **57.3** |
|  | n |  |  |  |  | 439 | 562 | 539 | 448 |
|  | *SD* |  |  |  |  | 13.7 | 14.0 | 13.3 | 14.9 |
|  | *SEM* |  |  |  |  | .65 | .59 | .57 | .70 |
|  | Upper |  |  |  |  | 57.0 | 57.9 | 58.9 | 58.7 |
|  | Lower |  |  |  |  | 54.5 | 55.6 | 56.6 | 55.9 |
| **Active and Collaborative Learning** | **ACL** |  |  |  |  | **48.8** | **51.2** | **49.7** | **51.2** |
|  | n |  |  |  |  | 457 | 566 | 539 | 464 |
|  | *SD* |  |  |  |  | 17.3 | 16.5 | 16.2 | 17.3 |
|  | *SEM* |  |  |  |  | .81 | .69 | .70 | .80 |
|  | Upper |  |  |  |  | 50.4 | 52.5 | 51.0 | 52.8 |
|  | Lower |  |  |  |  | 47.2 | 49.8 | 48.3 | 49.7 |
| **Student Faculty Interaction** | **SFI** |  |  |  |  | **43.4** | **44.2** | **43.7** | **44.6** |
|  | n |  |  |  |  | 440 | 562 | 537 | 448 |
|  | *SD* |  |  |  |  | 21.1 | 21.8 | 20.0 | 21.2 |
|  | *SEM* |  |  |  |  | 1.00 | .92 | .86 | 1.00 |
|  | Upper |  |  |  |  | 45.3 | 46.0 | 45.4 | 46.5 |
|  | Lower |  |  |  |  | 41.4 | 42.4 | 42.0 | 42.6 |
| **Enriching Educational Experiences** | **EEE** |  |  |  |  | **40.9** | **41.3** | **41.2** | **41.6** |
|  | n |  |  |  |  | 431 | 556 | 537 | 444 |
|  | *SD* |  |  |  |  | 17.7 | 17.0 | 18.1 | 18.0 |
|  | *SEM* |  |  |  |  | .85 | .72 | .78 | .85 |
|  | Upper |  |  |  |  | 42.5 | 42.7 | 42.7 | 43.3 |
|  | Lower |  |  |  |  | 39.2 | 39.9 | 39.7 | 39.9 |
| **Supportive Campus Environment** | **SCE** |  |  |  |  | **57.6** | **58.1** | **58.0** | **57.0** |
|  | n |  |  |  |  | 424 | 551 | 531 | 440 |
|  | *SD* |  |  |  |  | 19.3 | 18.6 | 18.3 | 19.0 |
|  | *SEM* |  |  |  |  | .94 | .79 | .79 | .91 |
|  | Upper |  |  |  |  | 59.5 | 59.7 | 59.5 | 58.8 |
|  | Lower |  |  |  |  | 55.8 | 56.6 | 56.4 | 55.2 |

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

IPEDS: 237525