

Detailed Statistics: First-year students

| | Mean statistics | | | Percentile ^d scores | | | | | Comparison results | | | |
|--|-----------------|-----------------|------------------|--------------------------------|------|------|------|------|------------------------------|------------|-------------------|--------------------------|
| | Mean | SD ^b | SEM ^c | 5th | 25th | 50th | 75th | 95th | Deg. of freedom ^e | Mean diff. | Sig. ^f | Effect size ^g |
| Academic Challenge | | | | | | | | | | | | |
| Higher-Order Learning | | | | | | | | | | | | |
| Missouri S&T (N = 243) | 35.2 | 13.6 | .87 | 15 | 25 | 35 | 45 | 60 | | | | |
| Peer Institutions | 38.0 | 13.2 | .42 | 15 | 30 | 40 | 45 | 60 | 1,234 | -2.8 | .004 | -.208 |
| Carnegie Class | 38.8 | 13.8 | .08 | 15 | 30 | 40 | 50 | 60 | 27,166 | -3.5 | .000 | -.256 |
| NSSE 2013 | 39.1 | 13.8 | .04 | 20 | 30 | 40 | 50 | 60 | 127,973 | -3.9 | .000 | -.282 |
| Top 50% | 40.9 | 13.6 | .06 | 20 | 30 | 40 | 50 | 60 | 58,059 | -5.6 | .000 | -.413 |
| Top 10% | 42.7 | 13.7 | .12 | 20 | 35 | 40 | 55 | 60 | 13,588 | -7.5 | .000 | -.549 |
| Reflective and Integrative Learning | | | | | | | | | | | | |
| Missouri S&T (N = 247) | 30.2 | 11.4 | .73 | 11 | 23 | 29 | 37 | 51 | | | | |
| Peer Institutions | 33.1 | 11.9 | .37 | 14 | 26 | 31 | 40 | 57 | 1,287 | -2.9 | .001 | -.244 |
| Carnegie Class | 35.3 | 12.5 | .07 | 17 | 26 | 34 | 43 | 60 | 251 | -5.1 | .000 | -.409 |
| NSSE 2013 | 35.7 | 12.6 | .03 | 17 | 26 | 34 | 43 | 60 | 247 | -5.5 | .000 | -.438 |
| Top 50% | 37.6 | 12.5 | .05 | 17 | 29 | 37 | 46 | 60 | 248 | -7.4 | .000 | -.595 |
| Top 10% | 39.4 | 12.5 | .11 | 20 | 31 | 40 | 49 | 60 | 256 | -9.2 | .000 | -.738 |
| Learning Strategies | | | | | | | | | | | | |
| Missouri S&T (N = 221) | 34.3 | 14.1 | .95 | 13 | 27 | 33 | 47 | 60 | | | | |
| Peer Institutions | 37.2 | 13.8 | .45 | 13 | 27 | 40 | 47 | 60 | 1,136 | -2.8 | .006 | -.205 |
| Carnegie Class | 39.0 | 14.1 | .09 | 20 | 27 | 40 | 53 | 60 | 25,140 | -4.7 | .000 | -.334 |
| NSSE 2013 | 39.8 | 14.2 | .04 | 20 | 27 | 40 | 53 | 60 | 119,163 | -5.5 | .000 | -.385 |
| Top 50% | 41.8 | 14.1 | .06 | 20 | 33 | 40 | 53 | 60 | 50,939 | -7.5 | .000 | -.533 |
| Top 10% | 44.3 | 14.2 | .13 | 20 | 33 | 47 | 60 | 60 | 11,606 | -10.0 | .000 | -.705 |
| Quantitative Reasoning | | | | | | | | | | | | |
| Missouri S&T (N = 245) | 27.4 | 14.4 | .92 | 0 | 20 | 27 | 40 | 53 | | | | |
| Peer Institutions | 30.7 | 15.3 | .48 | 7 | 20 | 27 | 40 | 60 | 1,257 | -3.2 | .003 | -.214 |
| Carnegie Class | 27.6 | 16.1 | .10 | 0 | 20 | 27 | 40 | 60 | 250 | -.2 | .815 | -.013 |
| NSSE 2013 | 27.3 | 16.4 | .05 | 0 | 20 | 27 | 40 | 60 | 246 | .1 | .878 | .009 |
| Top 50% | 28.8 | 16.3 | .06 | 0 | 20 | 27 | 40 | 60 | 247 | -1.4 | .126 | -.087 |
| Top 10% | 30.5 | 16.2 | .13 | 0 | 20 | 27 | 40 | 60 | 254 | -3.1 | .001 | -.190 |
| Learning with Peers | | | | | | | | | | | | |
| Collaborative Learning | | | | | | | | | | | | |
| Missouri S&T (N = 255) | 37.1 | 13.8 | .87 | 15 | 25 | 40 | 50 | 60 | | | | |
| Peer Institutions | 37.4 | 13.8 | .42 | 15 | 30 | 40 | 50 | 60 | 1,325 | -.4 | .715 | -.025 |
| Carnegie Class | 32.4 | 13.9 | .08 | 10 | 20 | 30 | 40 | 60 | 29,074 | 4.7 | .000 | .336 |
| NSSE 2013 | 31.4 | 14.2 | .04 | 10 | 20 | 30 | 40 | 60 | 136,346 | 5.6 | .000 | .397 |
| Top 50% | 34.4 | 13.7 | .06 | 15 | 25 | 35 | 45 | 60 | 60,200 | 2.6 | .002 | .192 |
| Top 10% | 37.1 | 13.6 | .12 | 15 | 25 | 35 | 45 | 60 | 12,169 | .0 | .988 | -.001 |
| Discussions with Diverse Others | | | | | | | | | | | | |
| Missouri S&T (N = 223) | 37.7 | 16.5 | 1.11 | 10 | 25 | 40 | 50 | 60 | | | | |
| Peer Institutions | 42.3 | 15.5 | .51 | 15 | 30 | 40 | 60 | 60 | 1,155 | -4.5 | .000 | -.289 |
| Carnegie Class | 40.8 | 15.7 | .10 | 15 | 30 | 40 | 55 | 60 | 25,395 | -3.1 | .004 | -.196 |
| NSSE 2013 | 40.8 | 16.0 | .05 | 15 | 30 | 40 | 55 | 60 | 120,570 | -3.0 | .005 | -.188 |
| Top 50% | 43.2 | 15.4 | .06 | 20 | 35 | 45 | 60 | 60 | 59,045 | -5.5 | .000 | -.354 |
| Top 10% | 45.7 | 15.0 | .14 | 20 | 40 | 50 | 60 | 60 | 229 | -7.9 | .000 | -.529 |

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| | Mean | SD ^b | SEM ^c | 5th | 25th | 50th | 75th | 95th | Deg. of freedom ^e | Mean diff. | Sig. ^f | Effect size ^g |
| Experiences with Faculty | | | | | | | | | | | | |
| Student-Faculty Interaction | | | | | | | | | | | | |
| Missouri S&T (N = 241) | 15.9 | 12.5 | .81 | 0 | 5 | 15 | 20 | 40 | | | | |
| Peer Institutions | 18.7 | 13.4 | .42 | 0 | 10 | 15 | 25 | 45 | 1,263 | -2.8 | .003 | -.214 |
| Carnegie Class | 19.1 | 14.1 | .09 | 0 | 10 | 15 | 25 | 45 | 246 | -3.2 | .000 | -.226 |
| NSSE 2013 | 20.0 | 14.5 | .04 | 0 | 10 | 20 | 30 | 50 | 241 | -4.1 | .000 | -.285 |
| Top 50% | 23.4 | 15.0 | .07 | 0 | 10 | 20 | 35 | 55 | 244 | -7.5 | .000 | -.500 |
| Top 10% | 26.7 | 16.4 | .21 | 0 | 15 | 25 | 40 | 60 | 273 | -10.8 | .000 | -.661 |
| Effective Teaching Practices | | | | | | | | | | | | |
| Missouri S&T (N = 246) | 36.7 | 11.9 | .76 | 16 | 28 | 36 | 44 | 60 | | | | |
| Peer Institutions | 39.3 | 12.6 | .39 | 16 | 32 | 40 | 48 | 60 | 1,264 | -2.7 | .003 | -.214 |
| Carnegie Class | 39.5 | 13.0 | .08 | 20 | 32 | 40 | 48 | 60 | 250 | -2.8 | .000 | -.216 |
| NSSE 2013 | 40.4 | 13.3 | .04 | 20 | 32 | 40 | 52 | 60 | 246 | -3.8 | .000 | -.282 |
| Top 50% | 42.8 | 13.3 | .06 | 20 | 35 | 44 | 56 | 60 | 248 | -6.1 | .000 | -.461 |
| Top 10% | 44.7 | 13.8 | .13 | 20 | 36 | 48 | 60 | 60 | 259 | -8.0 | .000 | -.579 |
| Campus Environment | | | | | | | | | | | | |
| Quality of Interactions | | | | | | | | | | | | |
| Missouri S&T (N = 215) | 41.6 | 10.2 | .70 | 22 | 36 | 44 | 48 | 58 | | | | |
| Peer Institutions | 41.9 | 11.7 | .39 | 20 | 34 | 44 | 50 | 60 | 360 | -.3 | .712 | -.026 |
| Carnegie Class | 41.2 | 12.3 | .08 | 18 | 34 | 42 | 50 | 60 | 219 | .4 | .562 | .033 |
| NSSE 2013 | 41.7 | 12.5 | .04 | 18 | 34 | 44 | 50 | 60 | 215 | -.1 | .855 | -.010 |
| Top 50% | 44.3 | 11.6 | .06 | 22 | 38 | 46 | 53 | 60 | 217 | -2.8 | .000 | -.237 |
| Top 10% | 46.3 | 12.0 | .12 | 23 | 40 | 48 | 56 | 60 | 226 | -4.7 | .000 | -.391 |
| Supportive Environment | | | | | | | | | | | | |
| Missouri S&T (N = 206) | 33.6 | 12.6 | .88 | 13 | 25 | 35 | 43 | 58 | | | | |
| Peer Institutions | 37.0 | 12.1 | .41 | 18 | 30 | 38 | 45 | 60 | 1,066 | -3.4 | .000 | -.277 |
| Carnegie Class | 37.7 | 13.5 | .09 | 15 | 28 | 38 | 48 | 60 | 23,274 | -4.1 | .000 | -.302 |
| NSSE 2013 | 37.2 | 14.0 | .04 | 14 | 28 | 38 | 48 | 60 | 206 | -3.6 | .000 | -.256 |
| Top 50% | 39.5 | 13.2 | .06 | 18 | 30 | 40 | 50 | 60 | 52,028 | -5.9 | .000 | -.451 |
| Top 10% | 41.4 | 12.9 | .13 | 20 | 33 | 43 | 53 | 60 | 10,414 | -7.8 | .000 | -.606 |

a. Results weighted by gender and enrollment status (and institutional size for comparison groups).

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

c. Standard error of the mean, used 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 $\pm 1.96 * SEM$.

d. A percentile is the point in the distribution of student-level EI scores at or below which a given percentage of EI scores fall.

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

f. Statistical significance represents the probability that the difference between the mean of your institution and that of the comparison group occurred by chance.

g. Effect size is the mean difference divided by the pooled standard deviation.