

### Academic Challenge: Seniors

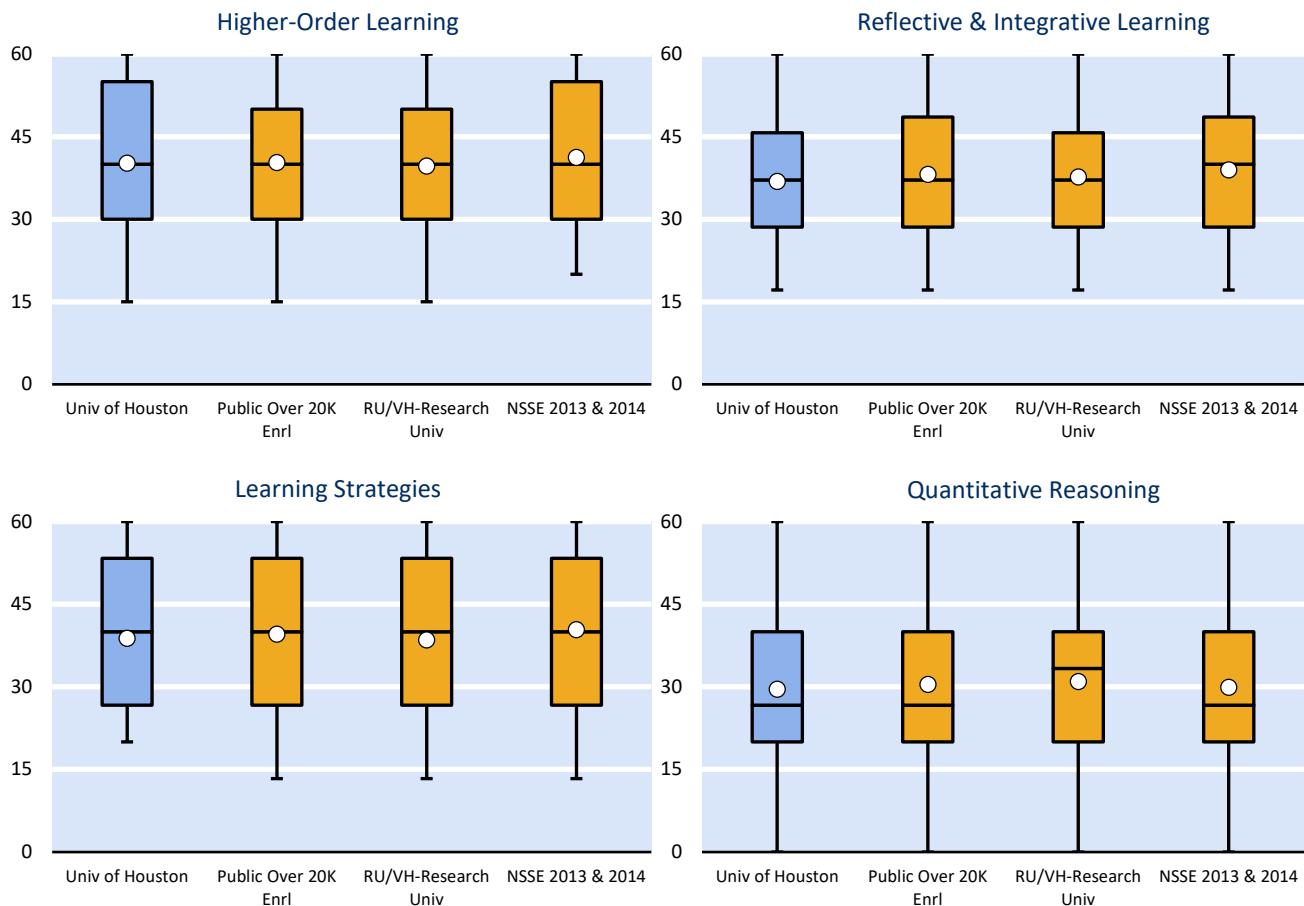
Challenging intellectual and creative work is central to student learning and collegiate quality. Colleges and universities promote student learning by challenging and supporting them to engage in various forms of deep learning. Four Engagement Indicators are part of this theme: *Higher-Order Learning*, *Reflective & Integrative Learning*, *Learning Strategies*, and *Quantitative Reasoning*. Below and on the next page are three views of your results alongside those of your comparison groups.

#### Mean Comparisons

Engagement Indicator	Univ of Houston Mean	Your seniors compared with					
		Public Over 20K Enrl Mean	Effect size	RU/VH-Research Univ Mean	Effect size	NSSE 2013 & 2014 Mean	Effect size
Higher-Order Learning	40.1	40.3	-.01	39.6	.04	41.2	-.08
Reflective & Integrative Learning	36.8	38.1 *	-.10	37.7	-.07	38.9 **	-.16
Learning Strategies	38.8	39.6	-.05	38.5	.02	40.3	-.10
Quantitative Reasoning	29.6	30.4	-.05	30.9	-.08	29.9	-.02

Notes: Results weighted by institution-reported sex and enrollment status (and institution size for comparison groups); \*p<.05, \*\*p<.01, \*\*\*p<.001 (2-tailed); Effect size: Mean difference divided by pooled standard deviation; Symbols on the Overview page are based on effect size and p before rounding.





































































#### Score Distributions



Notes: 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 represents the mean score. Refer to Detailed Statistics for your institution's sample sizes.

## Academic Challenge: Seniors (continued)

### Summary of Indicator Items

	Univ of Houston	Public Over 20K Enrl	RU/VH- Research Univ	NSSE 2013 & 2014
<b>Higher-Order Learning</b>				
<i>Percentage responding "Very much" or "Quite a bit" about how much coursework emphasized...</i>				
	%	%	%	%
4b. Applying facts, theories, or methods to practical problems or new situations	76 	79 	79 	80 
4c. Analyzing an idea, experience, or line of reasoning in depth by examining its parts	77 	76 	75 	78 
4d. Evaluating a point of view, decision, or information source	69 	68 	65 	72 
4e. Forming a new idea or understanding from various pieces of information	67 	70 	68 	72 
<b>Reflective &amp; Integrative Learning</b>				
<i>Percentage of students who responded that they "Very often" or "Often"...</i>				
2a. Combined ideas from different courses when completing assignments	70 	72 	73 	72 
2b. Connected your learning to societal problems or issues	56 	62 	60 	64 
2c. Included diverse perspectives (political, religious, racial/ethnic, gender, etc.) in course discussions or assignments	46 	51 	49 	55 
2d. Examined the strengths and weaknesses of your own views on a topic or issue	61 	64 	62 	66 
2e. Tried to better understand someone else's views by imagining how an issue looks from his or her perspective	65 	68 	67 	70 
2f. Learned something that changed the way you understand an issue or concept	66 	69 	68 	70 
2g. Connected ideas from your courses to your prior experiences and knowledge	80 	83 	83 	84 
<b>Learning Strategies</b>				
<i>Percentage of students who responded that they "Very often" or "Often"...</i>				
9a. Identified key information from reading assignments	80 	82 	80 	83 
9b. Reviewed your notes after class	60 	62 	58 	63 
9c. Summarized what you learned in class or from course materials	60 	63 	61 	66 
<b>Quantitative Reasoning</b>				
<i>Percentage of students who responded that they "Very often" or "Often"...</i>				
6a. Reached conclusions based on your own analysis of numerical information (numbers, graphs, statistics, etc.)	57 	56 	57 	55 
6b. Used numerical information to examine a real-world problem or issue (unemployment, climate change, public health, etc.)	42 	45 	45 	45 
6c. Evaluated what others have concluded from numerical information	46 	46 	48 	44 

Notes: Refer to your *Frequencies and Statistical Comparisons* report for full distributions and significance tests. Item numbering corresponds to the survey facsimile included in your *Institutional Report* and available on the NSSE Web site.