

NSSE

national survey of
student engagement

Student Voices 2021

Institutional Effectiveness Team

What is Student Engagement?

- **What students do –**
Time and energy devoted to studies and other educationally purposeful activities
- **What institutions do –**
Using resources and effective educational practices to induce students to do the right things
- Educationally effective institutions **channel student energy** toward the right activities

Seven Principles of Good Practice in Undergraduate Education

- Student-faculty contact
- Active learning
- Prompt feedback
- Time on task
- High expectations
- Experiences with diversity
- Cooperation among students



Chickering, A. W. & Gamson, Z. F. (1987). *Seven principles for good practice in undergraduate education*. AAHE: Bulletin, 39 (7), 3-7.

NSSE Survey Characteristics

- Spring 2021 Survey to First Years and Seniors
- Response Rate
 - Capital = 30% First-year (n=163) 36% Seniors (n=201)
 - Past Range 29-44%
 - National average = 30%
- Comparison Institution Groups
 - Master Degree Schools Carnegie Class (n=87)
- Topical Modules
 - Inclusiveness and Engagement with Cultural Diversity
 - Experiences with Online Learning

NSSE Engagement Indicators

Meaningful Academic Engagement Themes

Academic Challenge

Engagement Indicators

Higher-Order Learning

Reflective & Integrative Learning

Learning Strategies

Quantitative Reasoning

Learning with Peers

Collaborative Learning

Discussions with Diverse Others

Experiences with Faculty

Student-Faculty Interaction

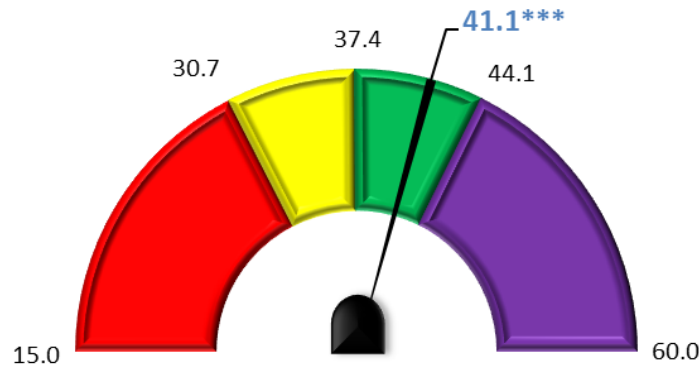
Effective Teaching Practices

Campus Environment

Quality of Interactions

Supportive Environment

Academic Challenge¹ Higher-Order Learning First-Year



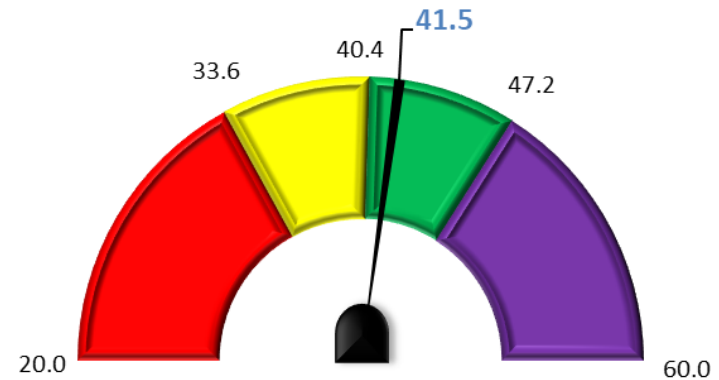
Capital = 41.1***

Mean = 37.4 5th Percentile = 15
SD = 13.4 95th Percentile = 60



¹ Master's Universities - Medium 2021 (n=87)
Sig.: *p<.05; **p<.01; ***p<.001

Academic Challenge¹ Higher-Order Learning Senior



Capital = 41.5

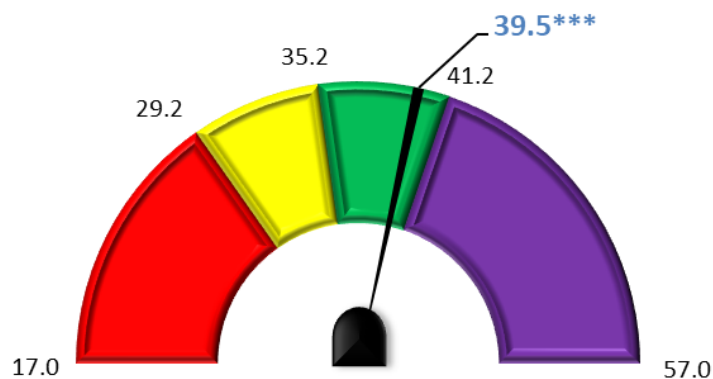
Mean = 40.4 5th Percentile = 20
SD = 13.6 95th Percentile = 60



¹ Master's Universities - Medium 2021 (n=87)
Sig.: *p<.05; **p<.01; ***p<.001

- Applying facts, theories, or methods to practical problems or new situations
- Analyzing an idea, experience, or line of reasoning in depth by examining its parts
- Evaluating a point of view, decision, or information source
- Forming a new idea or understanding from various pieces of information

Academic Challenge¹ Reflective and Integrative Learning First-Year



Capital = 39.5***

Mean = 35.2 5th Percentile = 17
SD = 12.0 95th Percentile = 57

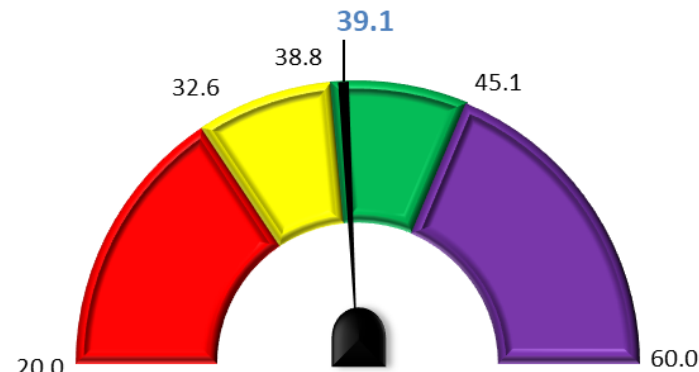


< -0.5SD -0.5 to Mean Mean to +0.5 > +0.5SD

¹ Master's Universities - Medium 2021 (n=87)

Sig.: *p<.05; **p<.01; ***p<.001

Academic Challenge¹ Reflective and Integrative Learning Senior



Capital = 39.1

Mean = 38.8 5th Percentile = 20
SD = 12.5 95th Percentile = 60



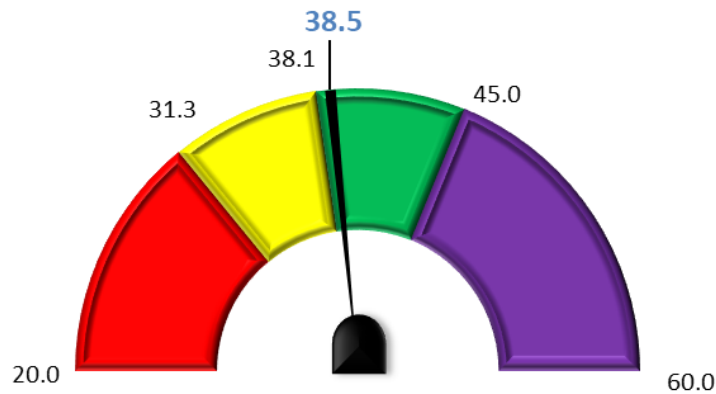
< -0.5SD -0.5 to Mean Mean to +0.5 > +0.5SD

¹ Master's Universities - Medium 2021 (n=87)

Sig.: *p<.05; **p<.01; ***p<.001

- Combined ideas from different courses when completing assignments
- Connected your learning to societal problems or issues
- Included diverse perspectives (political, religious, racial/ethnic, gender, etc.) in course discussions or assignments
- Examined the strengths and weaknesses of your own views on a topic or issue
- Tried to better understand someone else's views by imagining how an issue looks from his or her perspective
- Learned something that changed the way you understand an issue or concept
- Connected ideas from your courses to your prior experiences and knowledge

Academic Challenge¹ Learning Strategies First-Year



Capital = 38.5

Mean = 38.1 5th Percentile = 20
SD = 13.7 95th Percentile = 60

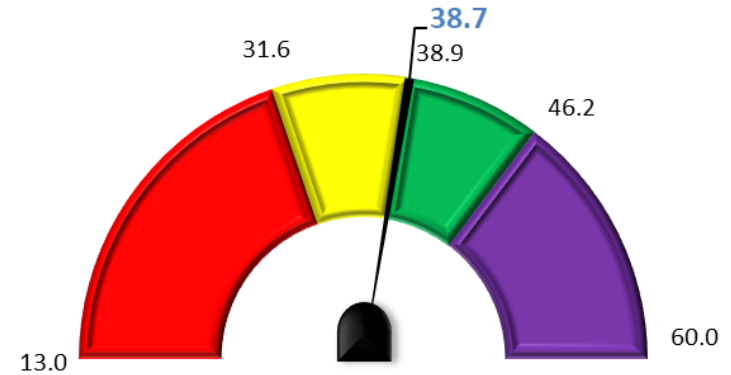


< - 0.5SD -0.5 to Mean Mean to +0.5 > + 0.5SD

¹ Master's Universities - Medium 2021 (n=87)

Sig.: *p<.05; **p<.01; ***p<.001

Academic Challenge¹ Learning Strategies Senior



Capital = 38.7

Mean = 38.9 5th Percentile = 13
SD = 14.6 95th Percentile = 60



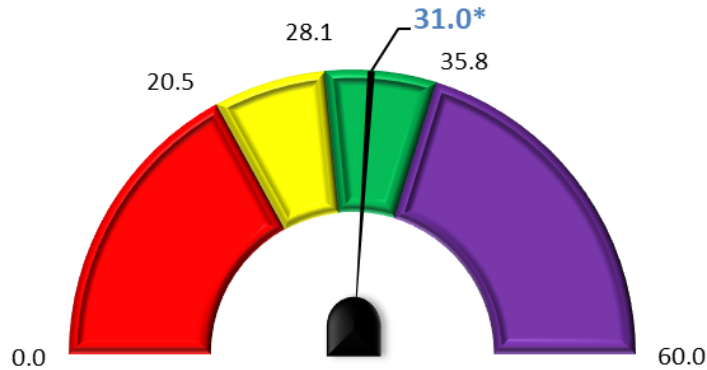
< - 0.5SD -0.5 to Mean Mean to +0.5 > + 0.5SD

¹ Master's Universities - Medium 2021 (n=87)

Sig.: *p<.05; **p<.01; ***p<.001

- Identified key information from reading assignments
- Reviewed your notes after class
- Summarized what you learned in class or from course materials

Academic Challenge¹ Quantitative Reasoning First-Year



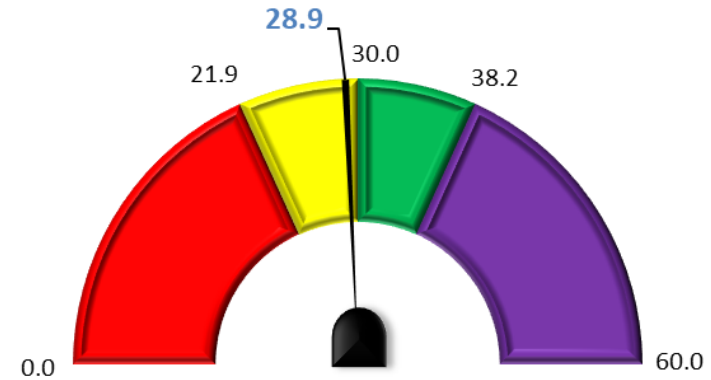
Capital = 31.0*

Mean = 28.1 5th Percentile = 0
SD = 15.3 95th Percentile = 60



¹ Master's Universities - Medium 2021 (n=87)
Sig.: *p<.05; **p<.01; ***p<.001

Academic Challenge¹ Quantitative Reasoning Senior



Capital = 28.9

Mean = 30.0 5th Percentile = 0
SD = 16.3 95th Percentile = 60



¹ Master's Universities - Medium 2021 (n=87)
Sig.: *p<.05; **p<.01; ***p<.001

- Reached conclusions based on your own analysis of numerical information (numbers, graphs, statistics, etc.)
- Used numerical information to examine a real-world problem or issue (unemployment, climate change, public health, etc.)
- Evaluated what others have concluded from numerical information

NSSE Engagement Indicators

Meaningful Academic Engagement Themes

Academic Challenge

Engagement Indicators

Higher-Order Learning

Reflective & Integrative Learning

Learning Strategies

Quantitative Reasoning

Learning with Peers

Collaborative Learning

Discussions with Diverse Others

Experiences with Faculty

Student-Faculty Interaction

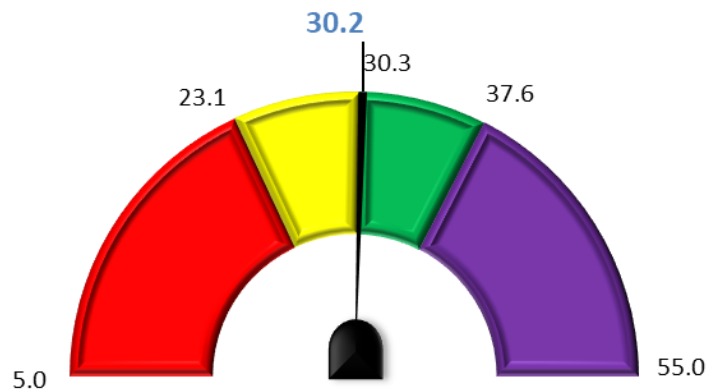
Effective Teaching Practices

Campus Environment

Quality of Interactions

Supportive Environment

Learning with Peers¹ Collaborative Learning First-Year



Capital = 30.2

Mean = 30.3 5th Percentile = 5
SD = 14.5 95th Percentile = 55

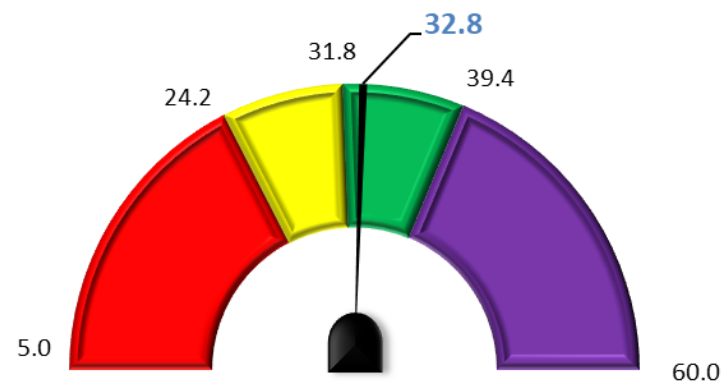


< -0.5SD -0.5 to Mean Mean to +0.5 > +0.5SD

¹ Master's Universities - Medium 2021 (n=87)

Sig.: *p<.05; **p<.01; ***p<.001

Learning with Peers¹ Collaborative Learning Senior



Capital = 32.8

Mean = 31.8 5th Percentile = 10
SD = 15.2 95th Percentile = 60



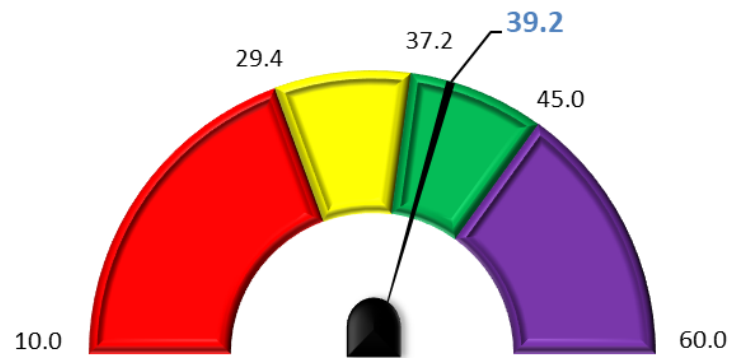
< -0.5SD -0.5 to Mean Mean to +0.5 > +0.5SD

¹ Master's Universities - Medium 2021 (n=87)

Sig.: *p<.05; **p<.01; ***p<.001

- Asked another student to help you understand course material
- Explained course material to one or more students
- Prepared for exams by discussing or working through course material with other students
- Worked with other students on course projects or assignments

Learning with Peers¹ Discussions with Diverse Others First-Year



Capital = 39.2

Mean = 37.2
SD = 15.6

5th Percentile = 10
95th Percentile = 60

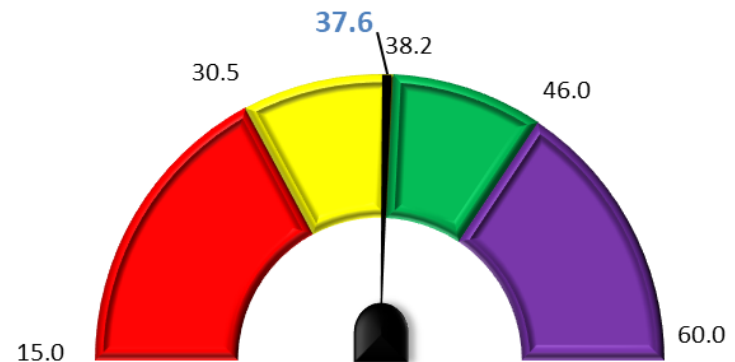


< -0.5SD -0.5 to Mean Mean to +0.5 > +0.5SD

¹ Master's Universities - Medium 2021 (n=87)

Sig.: *p<.05; **p<.01; ***p<.001

Learning with Peers¹ Discussions with Diverse Others Senior



Capital = 37.6

Mean = 38.2
SD = 15.5

5th Percentile = 15
95th Percentile = 60



< -0.5SD -0.5 to Mean Mean to +0.5 > +0.5SD

¹ Master's Universities - Medium 2021 (n=87)

Sig.: *p<.05; **p<.01; ***p<.001

- People of a race or ethnicity other than your own
- People from an economic background other than your own
- People with religious beliefs other than your own
- People with political views other than your own

NSSE Engagement Indicators

Meaningful Academic Engagement Themes

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Experiences with Faculty

Student-Faculty Interaction

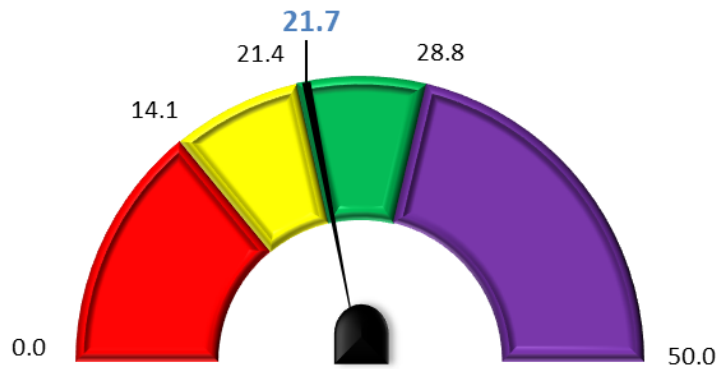
Effective Teaching Practices

Campus Environment

Quality of Interactions

Supportive Environment

Experiences with Faculty¹ Student - Faculty Interaction First-Year



Capital = 21.7

Mean = 21.4
SD = 14.7

5th Percentile = 0
95th Percentile = 50

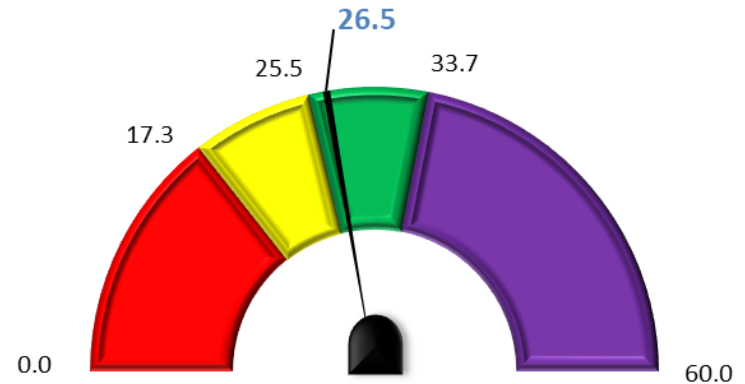


< -0.5SD -0.5 to Mean Mean to +0.5 > +0.5SD

¹ Master's Universities - Medium 2021 (n=87)

Sig.: *p<.05; **p<.01; ***p<.001

Experiences with Faculty¹ Student - Faculty Interaction Senior



Capital = 26.5

Mean = 25.5
SD = 16.4

5th Percentile = 0
95th Percentile = 60



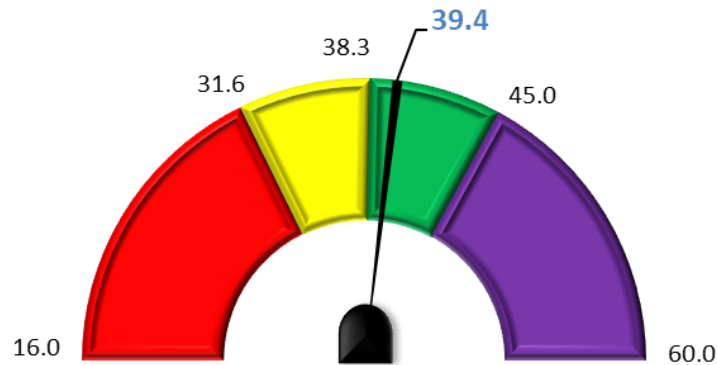
< -0.5SD -0.5 to Mean Mean to +0.5 > +0.5SD

¹ Master's Universities - Medium 2021 (n=87)

Sig.: *p<.05; **p<.01; ***p<.001

- *Talked about career plans with a faculty member*
- *Worked w/faculty on activities other than coursework (committees, student groups, etc.)*
- *Discussed course topics, ideas, or concepts with a faculty member outside of class*
- *Discussed your academic performance with a faculty member*

Experiences with Faculty¹ Effective Teaching Practices First-Year



Capital = 39.4

Mean = 38.3
SD = 13.4

5th Percentile = 16
95th Percentile = 60

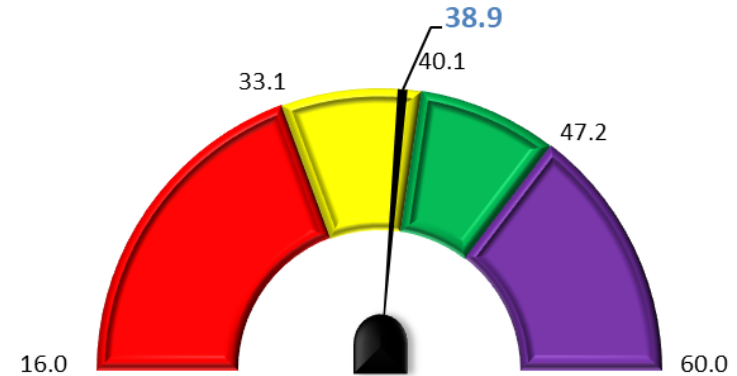


< -0.5SD -0.5 to Mean Mean to +0.5 > +0.5SD

¹ Master's Universities - Medium 2021 (n=87)

Sig.: *p<.05; **p<.01; ***p<.001

Experiences with Faculty¹ Effective Teaching Practices Senior



Capital = 38.9

Mean = 40.1
SD = 14.1

5th Percentile = 16
95th Percentile = 60



< -0.5SD -0.5 to Mean Mean to +0.5 > +0.5SD

¹ Master's Universities - Medium 2021 (n=87)

Sig.: *p<.05; **p<.01; ***p<.001

- Clearly explained course goals and requirements
- Taught course sessions in an organized way
- Used examples or illustrations to explain difficult points
- Provided feedback on a draft or work in progress
- Provided prompt and detailed feedback on tests or completed assignments

NSSE Engagement Indicators

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Higher-Order Learning

Reflective & Integrative Learning

Learning Strategies

Quantitative Reasoning

Collaborative Learning

Discussions with Diverse Others

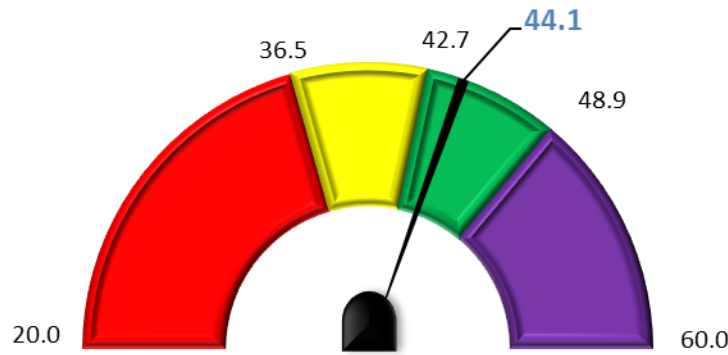
Student-Faculty Interaction

Effective Teaching Practices

Quality of Interactions

Supportive Environment

Campus Environment¹ Quality of Interactions First-Year



Capital = 44.1

Mean = 42.7
SD = 12.4

5th Percentile = 20
95th Percentile = 60

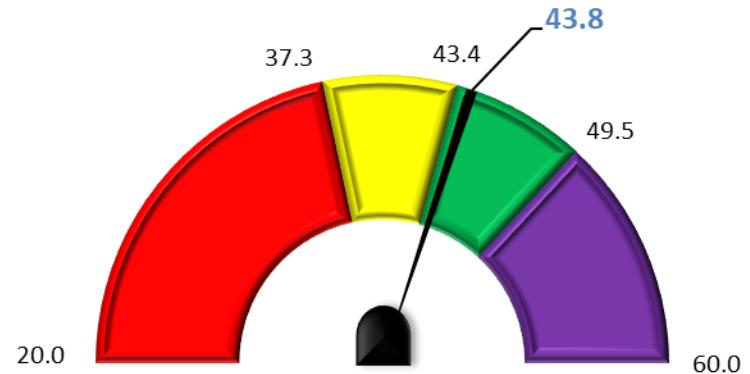


< -0.5SD -0.5 to Mean Mean to +0.5 > +0.5SD

¹ Master's Universities - Medium 2021 (n=87)

Sig.: *p<.05; **p<.01; ***p<.001

Campus Environment¹ Quality of Interactions Senior



Capital = 43.8

Mean = 43.4
SD = 12.2

5th Percentile = 20
95th Percentile = 60



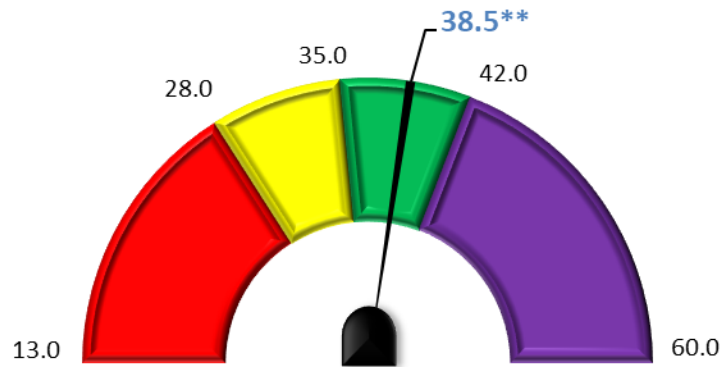
< -0.5SD -0.5 to Mean Mean to +0.5 > +0.5SD

¹ Master's Universities - Medium 2021 (n=87)

Sig.: *p<.05; **p<.01; ***p<.001

- Students
- Academic advisors
- Faculty
- Student services staff (career services, student activities, housing, etc.)
- Other administrative staff and offices (registrar, financial aid, etc.)

Campus Environment¹ Supportive Environment First-Year



Capital = 38.5**

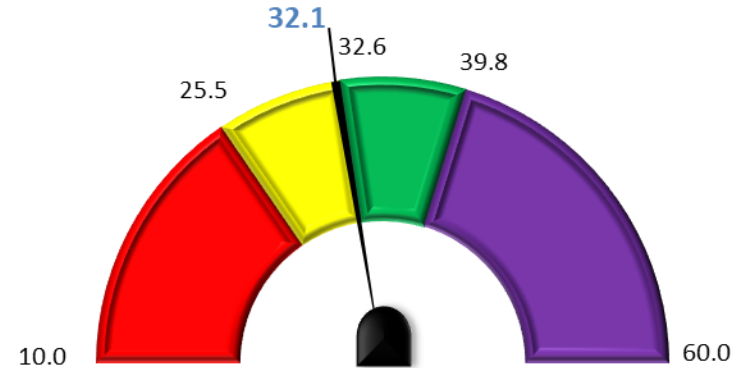
Mean = 35.0
SD = 14.0

5th Percentile = 13
95th Percentile = 60



¹ Master's Universities - Medium 2021 (n=87)
Sig.: *p<.05; **p<.01; ***p<.001

Campus Environment¹ Supportive Environment Senior



Capital = 32.1

Mean = 32.6
SD = 14.3

5th Percentile = 10
95th Percentile = 60







¹ Master's Universities - Medium 2021 (n=87)
Sig.: *p<.05; **p<.01; ***p<.001

- Providing support to help students succeed academically
- Using learning support services (tutoring services, writing center, etc.)
- Encouraging contact among students from diff. backgrounds (soc., racial/eth., relig., etc.)
- Providing opportunities to be involved socially
- Providing support for your overall well-being (recreation, health care, counseling, etc.)
- Helping you manage your non-academic responsibilities (work, family, etc.)
- Attending campus activities and events (performing arts, athletic events, etc.)
- Attending events that address important social, economic, or political issues

NSSE Survey Over Time

- NSSE Performed 2016, 2017, 2018, 2019, 2021
- Results significantly above or below the mean of comparison groups
- Comparison Institution Groups
 - Operational Peer (n=13) very similar to Capital
 - Carnegie Class (n=87) Master degree level universities
 - All NSSE (n=748) all universities that performed NSSE
- **Purple** – well above average
- **Green** – above average
- No color – near average
- **Yellow** – below average
- **Red** – well below average

	Capital students' average was significantly higher ($p < .05$) with an effect size at least .3 in magnitude.		
	Capital students' average was significantly higher ($p < .05$) with an effect size less than .3 in magnitude.		
	Capital students' average was significantly lower ($p < .05$) with an effect size less than .3 in magnitude.		
	Capital students' average was significantly lower ($p < .05$) with an effect size at least .3 in magnitude.		
	A blank cell indicates there was no significant difference.		

Engagement Themes and Engagement Indicators
Chart of Statistically Significant Differences in Mean Scores

		2021			2019			2018			2017			2016				
		Comparison Groups			Comparison Groups			Comparison Groups			Comparison Groups			Comparison Groups				
		Oper.	Carnegie	NSSE	Oper.	Carnegie	NSSE	Oper.	Carnegie	NSSE	Oper.	Carnegie	NSSE	The 318	Carnegie	NSSE		
Theme and Class Level	Engagement Indicator	Peers	Peers	2020-21	Peers	Peers	2018-19	Peers	Peers	2017-18	Peers	Peers	2016-17	Schools	Peers	2015-16		
Academic Challenge																		
First-Year																		
	Higher-Order Learning	Green				Green				Green								
	Reflective and Integrative Learning	Purple				Green				Green								
	Learning Strategies																	
	Quantitative Reasoning		Green			Green												
Seniors																		
	Higher-Order Learning		Green				Green				Green							
	Reflective and Integrative Learning					Green				Green								
	Learning Strategies													Yellow				
	Quantitative Reasoning								Yellow				Yellow			Yellow		
Learning with Peers																		
First-Year																		
	Collaborative Learning				Green				Purple				Green			Green		
	Discussion with Diverse Others					Green				Green			Green					
Seniors																		
	Collaborative Learning				Green			Green			Purple			Green				
	Discussion with Diverse Others				Green				Green					Green				
Experiences with Faculty																		
First-Year																		
	Student-Faculty Interaction					Green				Green				Yellow				
	Effective Teaching Practices				Yellow						Green			Yellow				
Seniors																		
	Student-Faculty Interaction				Green			Green			Purple			Green			Green	
	Effective Teaching Practices					Green				Yellow			Green					
Campus Environment																		
First-Year																		
	Quality of Interactions					Green				Yellow								
	Supportive Environment	Green				Purple			Green				Yellow					
Seniors																		
	Quality of Interactions																	
	Supportive Environment					Green			Yellow				Yellow					

Engagement Themes and Engagement Indicators
 Chart of Statistically Significant Differences in Mean Scores

		2021			2019			2018			2017			2016		
		Comparison Groups			Comparison Groups			Comparison Groups			Comparison Groups			Comparison Groups		
Theme and Class Level	Engagement Indicator	Oper.	Carnegie	NSSE	Oper.	Carnegie	NSSE	Oper.	Carnegie	NSSE	Oper.	Carnegie	NSSE	The 318	Carnegie	NSSE
		Peers	Peers	2020-21	Peers	Peers	2018-19	Peers	Peers	2017-18	Peers	Peers	2016-17	Schools	Peers	2015-16
Academic Challenge																
First-Year	Higher-Order Learning															
	Reflective and Integrative Learning															
	Learning Strategies															
	Quantitative Reasoning															
Seniors	Higher-Order Learning															
	Reflective and Integrative Learning															
	Learning Strategies															
	Quantitative Reasoning															

Key Points

- Significant gains in Higher-Order Learning over time
 - Highest scores in **Forming a new idea or understanding from various pieces of information**
- Significant gains in Reflective and Integrative Learning over time
 - Highest scores in **Included diverse perspectives (political, religious, racial/ethnic, gender, etc.) in course discussions or assignments**
- Learning Strategies little change
 - Lowest scores in **Reviewed your notes after class**
- Quantitative Reasoning lowest area
 - Lowest scores in **Reached conclusions based on your own analysis of numerical information (numbers, graphs, statistics, etc.)**