## NSSE 2015 Engagement Indicators –First Year (FY) Students

# **Academic Challenge Theme**

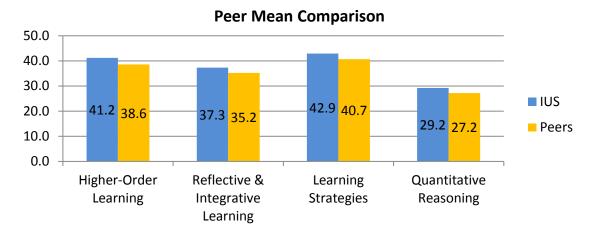
The four engagement indicators that make up the Academic Challenge theme are:

- Higher-Order Learning
- Reflective & Integrative Learning
- Learning Strategies
- Quantitative Reasoning

### 1. IU Southeast Peer Institutions

In 2015, six of the eleven IU Southeast formal peer institutions administered the NSSE. The comparisons that follow compare our campus with those aggregate totals. A list of these peers appear below.

On average, IU Southeast FY students compared significantly higher than FY students from peer institutions in each of the engagement indicator categories.



Results for each individual engagement indicator are as follows:

# **Higher-Order Learning**

IU Southeast FY student response averages were significantly higher than FY students from peer institutions in all four questions measuring higher-order learning; each with an effect size of less than .3 in magnitude.

Higher-Order Learning	Southeast	Peer Institutions
Percentage responding "Very much" or "Quite a bit" about how much coursework emphasized	%	%
4b. Applying facts, theories, or methods to practical problems or new situations	77	68
4c. Analyzing an idea, experience, or line of reasoning in depth by examining its parts	76	71
4d. Evaluating a point of view, decision, or information s	74	72
4e. Forming a new idea or understanding from various pieces of information	74	70

IU Southeast FY student response averages were significantly higher than FY students from peer institutions in five of the seven questions measuring reflective & integrative learning; each with an effect size of less than .3 in magnitude.

#### The five measurements are:

- 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.

	IU	Peer
Reflective & Integrative Learning	Southeast	Institutions
Percentage of students who responded that they "Very often" or "Often"	%	%
2a. Combined ideas from different courses when completing assignments	59	53
2b. Connected your learning to societal problems or issues	57	52
2c. Included diverse perspectives (political, religious, racial/ethnic, gender, etc.) in coudiscussions or assignments	54	49
2d. Examined the strengths and weaknesses of your own views on a topic	70	65
2e. Tried to better understand someone else's views by imagining how an issue looks this or her perspective	72	68
2f. Learned something that changed the way you understand an issue or concept	69	65
2g. Connected ideas from your courses to your prior experiences and knowledge	78	73

### **Learning Strategies**

IU Southeast FY student response averages were significantly higher than FY students from peer institutions in two of the three questions measuring learning strategies; each with an effect size of less than .3 in magnitude.

The two measurements with significant difference are:

- Identified key information from reading assignments.
- Reviewed your notes after class.

Learning Strategies	Southeast	Institutions
Percentage of students who responded that they "Very often" or "Often"	%	%
9a. Identified key information from reading assignments	85	79
9b. Reviewed your notes after class	73	68
9c. Summarized what you learned in class or from course materials	67	66

IU Southeast FY student response averages were significantly higher than FY students from peer institutions in two of the three questions measuring quantitative reasoning; each with an effect size of less than .3 in magnitude.

The two measurements with significant difference are:

- 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.

Quantitative Reasoning	IU Southeast	Peer Institutions
Percentage of students who responded that they "Very often" or "Often"	%	%
6a. Reached conclusions based on your own analysis of numerical information (number graphs, statistics, etc.)	50	52
6b. Used numerical information to examine a real-world problem or issue (unemploymed climate change, public health, etc.)	44	39
6c. Evaluated what others have concluded from numerical information	41	36

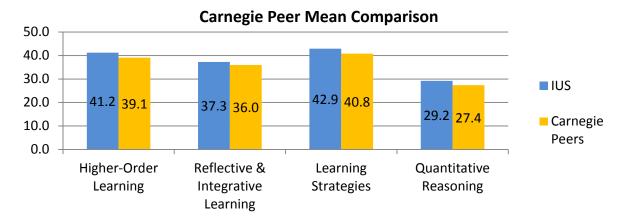
# Peer Institutions (N=6)

Austin Peay State University (Clarksville, TN)\*
Columbus State University (Columbus, GA)\*
Indiana University Northwest (Gary, IN)
Indiana University South Bend (South Bend, IN)
Minot State University (Minot, ND)
University of Texas at Tyler, The (Tyler, TX)

#### 2. IU Southeast Carnegie Peer Institutions

In 2015, ten institutions in the same Carnegie classification as IU Southeast administered the NSSE. The comparisons that follow compare our campus with those aggregate totals. A list of these peers appear below. Note that these institutions are Master's L, UG enrollment between 5,001-10,000, public, and less competitive.

On average, IU Southeast FY students compared significantly higher than FY students from Carnegie peer institutions in each of the engagement indicator categories except Reflective & Integrative Learning. Results for each individual engagement indicator are as follows:



### **Higher-Order Learning**

IU Southeast FY student response averages were significantly higher than FY students from Carnegie peer institutions in all four questions measuring higher-order learning; each with an effect size of less than .3 in magnitude.

Higher-Order Learning	Southeast	Carnegie Peers
Percentage responding "Very much" or "Quite a bit" about how much coursework emphasized	%	%
4b. Applying facts, theories, or methods to practical problems or new situations	77	72
4c. Analyzing an idea, experience, or line of reasoning in depth by examining its parts	76	71
4d. Evaluating a point of view, decision, or information s	74	71
4e. Forming a new idea or understanding from various pieces of information	74	70

IU Southeast FY student response averages were significantly higher than FY students from Carnegie peer institutions in only one of the seven questions measuring reflective & integrative learning; with an effect size of less than .3 in magnitude.

The measurement with significant difference is:

• Examined the strengths and weaknesses of your own views on a topic or issue.

	IU	Carnegie
Reflective & Integrative Learning	Southeast	Peers
Percentage of students who responded that they "Very often" or "Often"	%	%
2a. Combined ideas from different courses when completing assignments	59	55
2b. Connected your learning to societal problems or issues	57	52
2c. Included diverse perspectives (political, religious, racial/ethnic, gender, etc.) in coudiscussions or assignments	54	51
2d. Examined the strengths and weaknesses of your own views on a topic	70	63
2e. Tried to better understand someone else's views by imagining how an issue looks his or her perspective	72	69
2f. Learned something that changed the way you understand an issue or concept	69	64
2g. Connected ideas from your courses to your prior experiences and knowledge	78	75

### **Learning Strategies**

IU Southeast FY student response averages were significantly higher than FY students from Carnegie peer institutions in two of the three questions measuring learning strategies; each with an effect size of less than .3 in magnitude.

The two measurements with significant difference are:

- Identified key information from reading assignments.
- Reviewed your notes after class.

Learning Strategies	Southeast	Carnegie Peers
Percentage of students who responded that they "Very often" or "Often"	%	%
9a. Identified key information from reading assignments	85	80
9b. Reviewed your notes after class	73	70
9c. Summarized what you learned in class or from course materials	67	67

IU Southeast FY student response averages were significantly higher than FY students from Carnegie peer institutions in two of the three questions measuring quantitative reasoning; each with an effect size of less than .3 in magnitude.

The two measurements with significant difference are:

- 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.

Quantitative Reasoning	IU Southeast	Carnegie Peers
Percentage of students who responded that they "Very often" or "Often"	%	%
6a. Reached conclusions based on your own analysis of numerical information (number graphs, statistics, etc.)	50	51
6b. Used numerical information to examine a real-world problem or issue (unemployme climate change, public health, etc.)	44	39
6c. Evaluated what others have concluded from numerical information	41	37

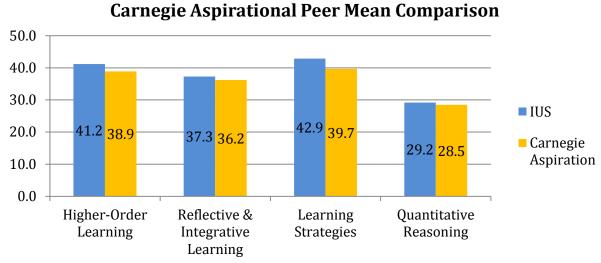
### **Carnegie Peer Institutions (N=10)**

California State University-Bakersfield (Bakersfield, CA)
Edinboro University of Pennsylvania (Edinboro, PA)
Jacksonville State University (Jacksonville, AL)
Kutztown University of Pennsylvania (Kutztown, PA)
Norfolk State University (Norfolk, VA)
Prairie View A&M University (Prairie View, TX)
Rhode Island College (Providence, RI)
Salem State University (Salem, MA)
Slippery Rock University of Pennsylvania (Slippery Rock, PA)
University of West Georgia (Carrollton, GA)

#### 3. IU Southeast Carnegie Aspirational Peer Institutions

In 2015, eighteen institutions that administered the NSSE were chosen as a Carnegie aspirational peer group. The comparisons that follow compare our campus with those aggregate totals. A list of these peers appear below. Note that these institutions are Master's L, UG enrollment between 5,001-10,000, public, and either competitive or competitive plus.

On average, IU Southeast FY students compared significantly higher than FY students from Carnegie Aspiration institutions in two of the four engagement indicator categories; Higher-Order Learning and Learning Strategies. IU Southeast students compared similarly to this peer group in regard to Reflective & Integrative Learning and Quantitative Reasoning.



Results for each individual engagement indicator are as follows:

# **Higher-Order Learning**

IU Southeast FY student response averages were significantly higher than FY students from Carnegie Aspiration institutions in all four questions measuring higher-order learning; each with an effect size of less than .3 in magnitude.

Higher-Order Learning	IU Southeast	Carnegie Aspiration
Percentage responding "Very much" or "Quite a bit" about how much coursework emphasi-	%	%
Applying facts, theories, or methods to practical problems or new situations	77	71
Analyzing an idea, experience, or line of reasoning in depth by examining its par	ts 76	71
Evaluating a point of view, decision, or information s	74	70
Forming a new idea or understanding from various pieces of information	74	69

IU Southeast FY student response averages were significantly higher than FY students from Carnegie Aspiration institutions in two of the seven questions measuring reflective & integrative learning; with an effect size of less than .3 in magnitude.

The two measurements with significant difference are:

- 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.

eflective & Integrative Learning	IU Southeast	Carnegie Aspiration
ercentage of students who responded that they "Very often" or "Often"	%	%
Combined ideas from different courses when completing assignments	59	58
Connected your learning to societal problems or issues	57	55
Included diverse perspectives (political, religious, racial/ethnic, gender, etc.) in discussions or assignments	54	52
Examined the strengths and weaknesses of your own views on a topic or issue*	70	64
Tried to better understand someone else's views by imagining how an issue loc his or her perspective*	72	68
Learned something that changed the way you understand an issue or concept	69	66
Connected ideas from your courses to your prior experiences and knowledge	78	77

<sup>\*</sup>Significant Findings

# **Learning Strategies**

IU Southeast FY student response averages were significantly higher than FY students from Carnegie Aspiration institutions in all three questions measuring learning strategies; each with an effect size of less than .3 in magnitude.

		Carnegie
Learning Strategies	IU Southeast	Aspiration
Percentage of students who responded that they "Very often" or "Often"	%	%
Identified key information from reading assignments	85	79
Reviewed your notes after class	73	67
Summarized what you learned in class or from course materials	67	65

There were no significant differences between IU Southeast FY student responses and FY students from Carnegie Aspiration peer institutions in regard to the three questions measuring quantitative reasoning.

Quantitative Reasoning	IU Southeast	Carnegie Aspiration
Percentage of students who responded that they "Very often" or "Often"	%	%
6a. Reached conclusions based on your own analysis of numerical information (nu graphs, statistics, etc.)	50	54
6b. Used numerical information to examine a real-world problem or issue (unemplo climate change, public health, etc.)	44	42
6c. Evaluated what others have concluded from numerical information	41	41

#### Carnegie Aspiration Institutions (N=18)

Bloomsburg University of Pennsylvania (Bloomsburg, PA)

California University of Pennsylvania (California, PA)

Central Connecticut State University (New Britain, CT)

Clarion University of Pennsylvania (Clarion, PA)

East Stroudsburg University of Pennsylvania (East Stroudsburg, PA)

Marshall University (Huntington, WV)

Millersville University of Pennsylvania (Millersville, PA)

Murray State University (Murray, KY)

New Jersey City University (Jersey City, NJ)

Northeastern Illinois University (Chicago, IL)

Northwest Missouri State University (Maryville, MO)

Pittsburg State University (Pittsburg, KS)

Southern Connecticut State University (New Haven, CT)

Southern University and A&M College (Baton Rouge, LA)

SUNY-Buffalo State College (Buffalo, NY)

West Texas A&M University (Canyon, TX)

Western Carolina University (Cullowhee, NC)

Western Illinois University (Macomb, IL)

### NSSE 2015 Engagement Indicators – Senior (SR) Students

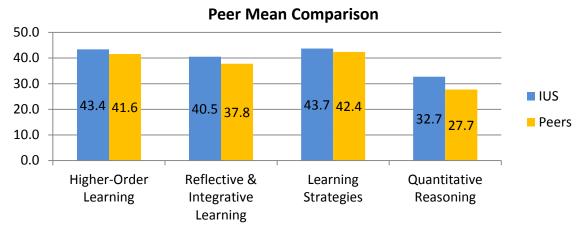
## **Academic Challenge Theme**

The four engagement indicators that make up the Academic Challenge theme are:

- Higher-Order Learning
- Reflective & Integrative Learning
- Learning Strategies
- Quantitative Reasoning

### 1. IU Southeast Peer Institutions

In 2015, six of the eleven IU Southeast formal peer institutions administered the NSSE. The comparisons that follow compare our campus with those aggregate totals. A list of these peers appear below. On average, IU Southeast SR students compared significantly higher than SR students from peer institutions in each of the engagement indicator categories except Learning Strategies.



Results for each individual engagement indicator are as follows:

### **Higher-Order Learning**

IU Southeast SR student response averages were significantly higher than SR students from peer institutions in two of the four questions measuring higher-order learning; each with an effect size of less than .3 in magnitude.

The two measurements with significant difference are:

- 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.

	IU	Peer
Higher-Order Learning	Southeast	Institutions
Percentage responding "Very much" or "Quite a bit" about how much coursework emphasize	%	%
Applying facts, theories, or methods to practical problems or new situations	83	81
Analyzing an idea, experience, or line of reasoning in depth by examining its parts	81	79
Evaluating a point of view, decision, or information s	77	75
Forming a new idea or understanding from various pieces of information	78	74

IU Southeast SR student response averages were significantly higher than SR students from peer institutions in all seven questions measuring reflective & integrative learning; each with an effect size of less than .3 in magnitude.

Reflective & Integrative Learning	IU Southeast	Peer Institutions
Percentage of students who responded that they "Very often" or "Often"	%	%
Combined ideas from different courses when completing assignments	77	67
Connected your learning to societal problems or issues	70	60
Included diverse perspectives (political, religious, racial/ethnic, gender, etc.) in codiscussions or assignments	58	54
Examined the strengths and weaknesses of your own views on a topic	71	64
Tried to better understand someone else's views by imagining how an issue looks his or her perspective	76	69
Learned something that changed the way you understand an issue or concept	73	66
Connected ideas from your courses to your prior experiences and knowledge	86	82

### **Learning Strategies**

There were no significant differences between IU Southeast SR student responses and peer institution SR responses in regard to the three questions measuring learning strategies.

Learning Strategies	IU Southeast	Peer Institutions
Percentage of students who responded that they "Very often" or "Often"	%	%
Identified key information from reading assignments	86	85
Reviewed your notes after class	72	72
Summarized what you learned in class or from course materials	75	71

# **Quantitative Reasoning**

IU Southeast SR student response averages were significantly higher than SR students from peer institutions in all three questions measuring quantitative reasoning; each with an effect size of less than .3 in magnitude.

Quantitative Reasoning	IU Southeast	Peer Institutions
Percentage of students who responded that they "Very often" or "Often"	%	%
Reached conclusions based on your own analysis of numerical information (numb graphs, statistics, etc.)	62	51
Used numerical information to examine a real-world problem or issue (unemployn climate change, public health, etc.)	50	40
Evaluated what others have concluded from numerical information	51	39

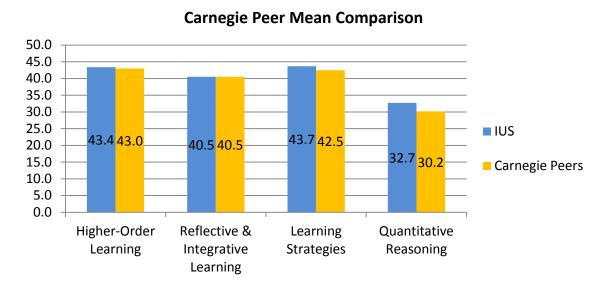
### Peer Institutions (N=6)

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### 2. <u>IU Southeast Carnegie Peer Institutions</u>

In 2015, ten institutions in the same Carnegie classification as IU Southeast administered the NSSE. The comparisons that follow compare our campus with those aggregate totals. A list of these peers appear below. Note that these institutions are Master's L, UG enrollment between 5,001-10,000, public, and less competitive.

On average, IU Southeast SR students compared significantly higher than SR students from Carnegie peer institutions in only one of the four engagement indicator categories, Quantitative Reasoning. IU Southeast students compared similarly to this peer group in regard to Higher-Order Learning, Reflective & Integrative Learning and Learning Strategies.



Results for each individual engagement indicator are as follows:

# **Higher-Order Learning**

There were no significant differences between IU Southeast SR student responses and Carnegie peer institution SR responses in regard to the four questions measuring higher-order learning.

	IU	Carnegie
Higher-Order Learning	Southeast	Peers
Percentage responding "Very much" or "Quite a bit" about how much coursework emphasize	%	%
Applying facts, theories, or methods to practical problems or new situations	83	82
Analyzing an idea, experience, or line of reasoning in depth by examining its parts	81	79
Evaluating a point of view, decision, or information s	77	76
Forming a new idea or understanding from various pieces of information	78	76

There were no significant differences between IU Southeast SR student responses and Carnegie peer institution SR responses in regard to the seven questions measuring reflective & integrative learning.

Reflective & Integrative Learning	IU Southeast	Carnegie Peers
Percentage of students who responded that they "Very often" or "Often"	%	%
Combined ideas from different courses when completing assignments	77	75
Connected your learning to societal problems or issues	70	67
Included diverse perspectives (political, religious, racial/ethnic, gender, etc.) in coldiscussions or assignments	58	59
Examined the strengths and weaknesses of your own views on a topic	71	69
Tried to better understand someone else's views by imagining how an issue looks his or her perspective	76	73
Learned something that changed the way you understand an issue or concept	73	72
Connected ideas from your courses to your prior experiences and knowledge	86	83

## **Learning Strategies**

There were no significant differences between IU Southeast SR student responses and Carnegie peer institution SR responses in regard to the three questions measuring learning strategies.

Learning Strategies	IU Southeast	Carnegie Peers
Percentage of students who responded that they "Very often" or "Often"	%	%
Identified key information from reading assignments	86	85
Reviewed your notes after class	72	69
Summarized what you learned in class or from course materials	75	72

IU Southeast SR student response averages were significantly higher than SR students from Carnegie peer institutions in two of the three questions measuring quantitative reasoning; each with an effect size of less than .3 in magnitude.

The two measurements with significant difference are:

- Evaluated what others have concluded from numerical information.
- Reached conclusions based on your own analysis of numerical information (numbers, graphs, statistics, etc.).

Quantitative Reasoning	IU Southeast	Carnegie Peers
Percentage of students who responded that they "Very often" or "Often"	%	%
Reached conclusions based on your own analysis of numerical information (numb graphs, statistics, etc.)	62	54
Used numerical information to examine a real-world problem or issue (unemployn climate change, public health, etc.)	50	45
Evaluated what others have concluded from numerical information	51	45

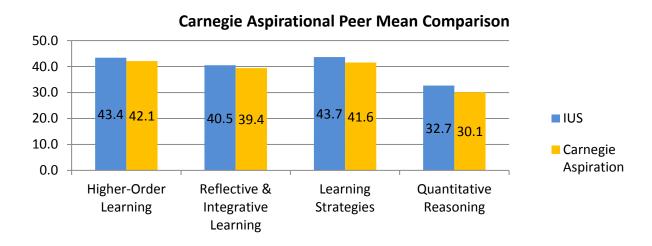
# **Carnegie Peer Institutions (N=10)**

California State University-Bakersfield (Bakersfield, CA)
Edinboro University of Pennsylvania (Edinboro, PA)
Jacksonville State University (Jacksonville, AL)
Kutztown University of Pennsylvania (Kutztown, PA)
Norfolk State University (Norfolk, VA)
Prairie View A&M University (Prairie View, TX)
Rhode Island College (Providence, RI)
Salem State University (Salem, MA)
Slippery Rock University of Pennsylvania (Slippery Rock, PA)
University of West Georgia (Carrollton, GA)

#### 3. IU Southeast Carnegie Aspirational Peer Institutions

In 2015, eighteen institutions that administered the NSSE were chosen as a Carnegie aspirational peer group. The comparisons that follow compare our campus with those aggregate totals. A list of these peers appear below. Note that these institutions are Master's L, UG enrollment between 5,001-10,000, public, and either competitive or competitive plus.

On average, IU Southeast senior students compared significantly higher than senior students from Carnegie Aspiration Peer institutions in two of the four engagement indicator categories, Learning Strategies and Quantitative Reasoning. IU Southeast senior students compared similarly to this peer group in regard to Higher-Order Learning and Reflective & Integrative Learning.



Results for each individual engagement indicator are as follows:

# **Higher-Order Learning**

IU Southeast senior student response averages were significantly higher than Carnegie Aspiration Peer institution senior responses in one of the four questions measuring higher-order learning; with an effect size of less than .3 in magnitude.

The one measurement with significant difference is:

• Analyzing an idea, experience, or line of reasoning in depth by examining its parts.

Higher-Order Learning	IU Southeast	Carnegie Aspiration
Percentage responding "Very much" or "Quite a bit" about how much coursework emphasize	%	%
Applying facts, theories, or methods to practical problems or new situations	83	81
Analyzing an idea, experience, or line of reasoning in depth by examining its parts	81	78
Evaluating a point of view, decision, or information s	77	75
Forming a new idea or understanding from various pieces of information	78	75

IU Southeast senior student response averages were significantly higher than Carnegie Aspiration Peer institution senior responses in only one of the seven questions measuring reflective & integrative learning; with an effect size of less than .3 in magnitude.

The measurement showing significant difference is:

• Examined the strengths and weaknesses of your own views on a topic or issue.

Reflective & Integrative Learning	IU Southeast	Carnegie Aspiration
Percentage of students who responded that they "Very often" or "Often"	%	%
Combined ideas from different courses when completing assignments	77	72
Connected your learning to societal problems or issues	70	65
Included diverse perspectives (political, religious, racial/ethnic, gender, etc.) in coldiscussions or assignments	58	57
Examined the strengths and weaknesses of your own views on a topic	71	67
Tried to better understand someone else's views by imagining how an issue looks his or her perspective	76	71
Learned something that changed the way you understand an issue or concept	73	71
Connected ideas from your courses to your prior experiences and knowledge	86	84

### **Learning Strategies**

IU Southeast senior student response averages were significantly higher than Carnegie Aspiration Peer institution senior responses in two of the three questions measuring learning strategies; each with an effect size of less than .3 in magnitude.

The two measurements with significant difference are:

- Identified key information from reading assignments.
- Summarized what you learned in class or from course materials.

Learning Strategies	Southeast	Aspiration
Percentage of students who responded that they "Very often" or "Often"	%	%
Identified key information from reading assignments	86	84
Reviewed your notes after class	72	68
Summarized what you learned in class or from course materials	75	69

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IU Southeast senior student response averages were significantly higher than Carnegie Aspiration Peer institution senior responses in all three questions measuring quantitative reasoning; each with an effect size of less than .3 in magnitude.

Quantitative Reasoning	IU Southeast	Aspiration
Percentage of students who responded that they "Very often" or "Often"	%	%
Reached conclusions based on your own analysis of numerical information (number graphs, statistics, etc.)	62	56
Used numerical information to examine a real-world problem or issue (unemployn climate change, public health, etc.)	r 50	45
Evaluated what others have concluded from numerical information	51	43

#### Carnegie Aspiration Institutions (N=18)

Bloomsburg University of Pennsylvania (Bloomsburg, PA)

California University of Pennsylvania (California, PA)

Central Connecticut State University (New Britain, CT)

Clarion University of Pennsylvania (Clarion, PA)

East Stroudsburg University of Pennsylvania (East Stroudsburg, PA)

Marshall University (Huntington, WV)

Millersville University of Pennsylvania (Millersville, PA)

Murray State University (Murray, KY)

New Jersey City University (Jersey City, NJ)

Northeastern Illinois University (Chicago, IL)

Northwest Missouri State University (Maryville, MO)

Pittsburg State University (Pittsburg, KS)

Southern Connecticut State University (New Haven, CT)

Southern University and A&M College (Baton Rouge, LA)

SUNY-Buffalo State College (Buffalo, NY)

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Western Illinois University (Macomb, IL)