

## 2016 CIRP Freshman Survey

**CIRP Construct Reports** 

First-time, Full-time Freshmen

# University of South Carolina-Columbia

Comparison group 1: Public Universities-medium selectivity

Comparison group 2: Public Universities



# 2016 CIRP Freshman Survey CIRP Construct Reports

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#### How to Read the CIRP Construct Mean Report

CIRP Constructs are designed to capture the experiences and outcomes institutions are often interested in understanding, but that present a measurement challenge because of their complex and multifaceted nature. To measure these broad underlying areas more precisely, we use Item Response Theory (IRT) to combine individual survey items into global measures that capture these areas. CIRP Constructs are more than a summation of related items; IRT uses response patterns to derive construct score estimates while simultaneously giving greater weight in the estimation process to survey items that tap into the construct more directly. This results in more accurate construct scores. Constructs are particularly useful for benchmarking. They allow you to determine if the experiences and outcomes for your students differ from your comparison groups. Two reports are generated for each CIRP Construct. The Mean Score Report shows comparative information based on the mean score of a construct. The Percentage Report shows comparative information based on the percentage of students who score in the high, average, and low score groups of a construct. We suggest you use the report that best fits your needs as an institution. Both CIRP Construct reports are generated for first-time, full-time freshman. which we define as those respondents who first entered college in 2015 and are currently enrolled full-time. For more information about IRT and the CIRP Construct development process, see the CIRP Constructs Technical Report at www.heri.ucla.edu

CIRP Construct Definition Summarizes the theoretical rationale for creating the construct.

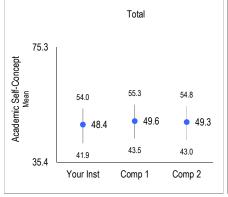
Standard Deviation - Measures the variability around the mean. A small standard deviation indicates that the responses for the construct tend to be very close to the mean, whereas a large standard deviation indicates that the responses are spread over a larger range of response options.

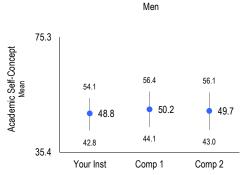
Statistical Significance - Uses t-test to examine the difference between the mean construct score for your institution and the comparison group. Constructs with mean differences that are larger than would be expected by chance are noted with one, two, or three stars, which correspond to the three standard levels of significance (\*p< .05. \*\*p< .01, and \*\*\*p< .001). Statistical significance measures the extent to which a difference is occurring by chance, not the extent to which a difference is practically important. Large sample sizes (like those in the comparison groups) tend to generate statistical significance even though the magnitude of the difference may be small and not practically significant. In order to provide additional context to statistical significance. effect sizes are provided.

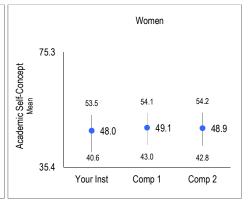
Academic Self-Concept - is a unified measure of students' beliefs about their abilities and confidence in academic environments.

			Total			Men			Women _/	
	Sample University	Your Inst	Comp 1	Comp 2	Your Inst	Comp 1	Comp 2	Your Inst	Comp 1	Comp 2
ſ	Total (n)	619	21,085	42,939	300	10,706	19,535	319	10,379	23,404
l	Mean	48.4	49.6	49.3	48.8	50.2	49.7	48.0	49.1	48.9
1	Standard Deviation	8.74	8.55	8.85	8.67	8.67	8.97	8.80	8.41	8.74
Į	Significance	-	***	*	-	**		-	*	
1	Effect Size	-	-0.14	-0.10	-	-0.16	-0.10	-	-0.12	-0.10
I	25th percentile	41.9	43.5	43.0	42.8	44.1	43.0	40.6	43.0	42.8
	75th percentile	54.0	55.3	54.8	54.1	56.4	56.1	53.5	54.1	54.2

Note: Significance \* p<.05, \*\* p<.01, \*\*\* p<.001







#### Survey items and estimation "weights":

Rate yourself on each of the following traits as compared with the average person your age:

- \* Academic ability (3.52)
- \* Self-confidence intellectual (1.22)
- \* Drive to achieve (0.95)
- \* Mathematical ability (1.22)

Survey Items and Estimation "Weights" - The survey items used in the creation of the CIRP Construct are presented in the order in which they contribute to the construct along with the estimation weights generated in IRT. Items that tap into a trait more effectively are given greater weight in the estimation process.

Charts - Provide a visual display of relevant construct scores for your institution and two comparison groups. The Y axis is defined by the highest and lowest possible construct score. Mean scores are represented by blue circles. The numbers at the top and bottom of the vertical line are values for the 75th and 25th percentiles.

Comp 1 - The first comparison group is based on your institution's type, control. and selectivity.

Comp 2 - The second comparison group is based on your institution's type and

Mean - The arithmetic mean is computed for each CIRP Construct based on the construct score. CIRP Constructs are scored on a zscore metric and rescaled for a mean of approximately 50 and standard deviation of 10.

Effect Size - Determines the practical significance of the mean difference between vour institution and the comparison group. It is calculated by dividing the mean difference by the standard deviation of the comparison group. Generally, an effect size of .2 is considered small 5 medium, and .8 large. A positive sign indicates that your institution's mean is greater than the mean of the comparison group; a negative sign indicates your mean is smaller than the mean of the comparison group.

## 2016 CIRP Freshman Survey

### First-time. Full-time Freshmen

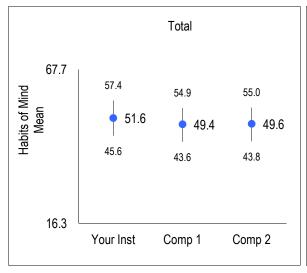
### Habits of Mind

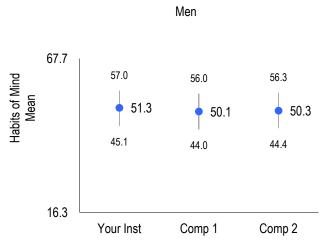
**CIRP Construct Mean Report** 

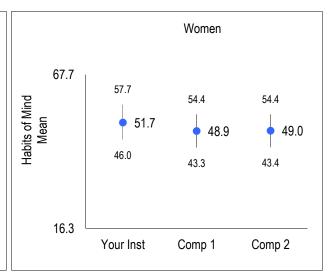
Habits of Mind - is a unified measure of the behaviors and traits associated with academic success. These learning behaviors are seen as the foundation for lifelong learning.

		Total			Men			Women	
University of South Carolina-Columbia	Your Inst	Comp 1	Comp 2	Your Inst	Comp 1	Comp 2	Your Inst	Comp 1	Comp 2
Total (n)	820	11,979	35,628	284	5,423	15,514	536	6,556	20,114
Mean	51.6	49.4	49.6	51.3	50.1	50.3	51.7	48.9	49.0
Standard Deviation	8.92	8.49	8.46	8.85	8.61	8.56	8.96	8.33	8.32
Significance	-	***	***	-	*		-	***	***
Effect Size	-	0.25	0.23	-	0.14	0.12	-	0.34	0.32
25th percentile	45.6	43.6	43.8	45.1	44.0	44.4	46.0	43.3	43.4
75th percentile	57.4	54.9	55.0	57.0	56.0	56.3	57.7	54.4	54.4

Note: Significance \* p<.05, \*\* p<.01, \*\*\* p<.001







## Survey items and estimation "weights":

How often in the past year did you:

- \* Seek solutions to problems and explain them to others (1.99)
- \* Support your opinions with a logical argument (1.74)
- \* Seek alternative solutions to a problem (1.61)
- \* Evaluate the quality or reliability of information you received (1.58)
- \* Explore topics on your own, even though it was not required for a class (1.27)
- \* Seek feedback on your academic work (1.24)

- \* Ask questions in class (1.20)
- \* Look up scientific research articles and resources (1.05)
- \* Revise your papers to improve your writing (1.04)
- \* Take a risk because you feel you have more to gain (1.03)
- \* Accept mistakes as part of the learning process (0.95)

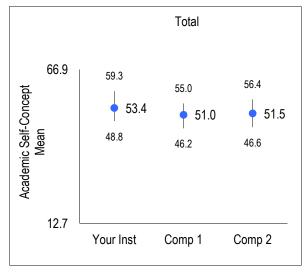
## **Academic Self-Concept**

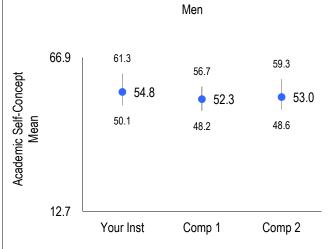
**CIRP Construct Mean Report** 

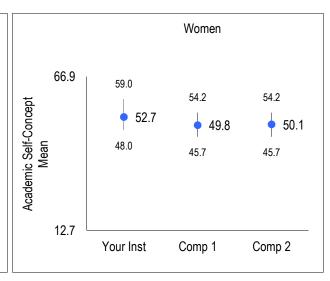
Academic Self-Concept - is a unified measure of students' beliefs about their abilities and confidence in academic environments.

		Total			Men			Women	
University of South Carolina-Columbia	Your Inst	Comp 1	Comp 2	Your Inst	Comp 1	Comp 2	Your Inst	Comp 1	Comp 2
Total (n)	806	10,982	34,354	282	4,969	14,935	524	6,013	19,419
Mean	53.4	51.0	51.5	54.8	52.3	53.0	52.7	49.8	50.1
Standard Deviation	7.86	8.10	8.32	7.49	8.12	8.31	7.95	7.89	8.09
Significance	-	***	***	-	***	***	-	***	***
Effect Size	-	0.30	0.23	-	0.31	0.21	-	0.37	0.32
25th percentile	48.8	46.2	46.6	50.1	48.2	48.6	48.0	45.7	45.7
75th percentile	59.3	55.0	56.4	61.3	56.7	59.3	59.0	54.2	54.2

Note: Significance \* p<.05, \*\* p<.01, \*\*\* p<.001







## Survey items and estimation "weights":

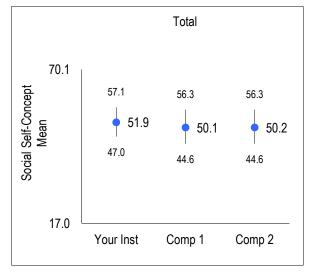
Rate yourself on each of the following traits as compared with the average person your age:

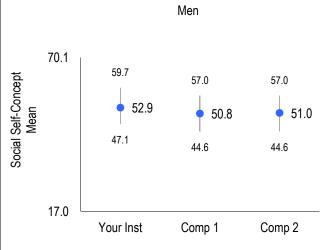
- \* Academic ability (3.52)
- \* Mathematical ability (1.32)
- \* Self-confidence intellectual (1.22)
- \* Drive to achieve (0.95)

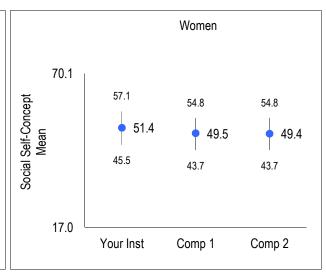
Social Self-Concept - is a unified measure of students' beliefs about their abilities and confidence in social situations.

		Total		Men			Women		
University of South Carolina-Columbia	Your Inst	Comp 1	Comp 2	Your Inst	Comp 1	Comp 2	Your Inst	Comp 1	Comp 2
Total (n)	806	10,859	34,194	282	4,900	14,844	524	5,959	19,350
Mean	51.9	50.1	50.2	52.9	50.8	51.0	51.4	49.5	49.4
Standard Deviation	8.50	8.97	8.83	8.38	9.00	8.85	8.52	8.90	8.74
Significance	-	***	***	-	***	***	-	***	***
Effect Size	-	0.20	0.20	-	0.23	0.21	-	0.21	0.23
25th percentile	47.0	44.6	44.6	47.1	44.6	44.6	45.5	43.7	43.7
75th percentile	57.1	56.3	56.3	59.7	57.0	57.0	57.1	54.8	54.8

Note: Significance \* p<.05, \*\* p<.01, \*\*\* p<.001







## Survey items and estimation "weights":

Rate yourself on each of the following traits as compared with the average person your age:

- \* Self-confidence social (2.33)
- \* Leadership ability (1.96)
- \* Public speaking ability (1.68)

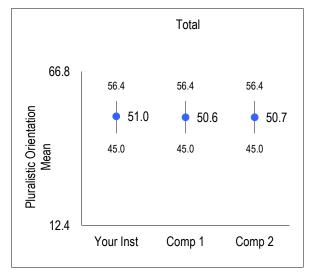
### Pluralistic Orientation

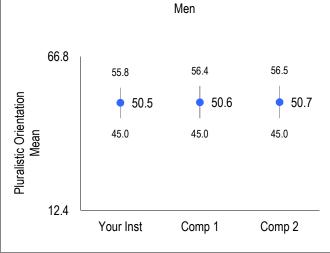
**CIRP Construct Mean Report** 

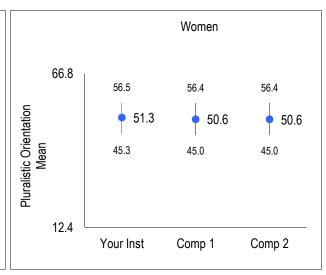
Pluralistic Orientation - measures skills and dispositions appropriate for living and working in a diverse society.

		Total			Men			Women	
University of South Carolina-Columbia	Your Inst	Comp 1	Comp 2	Your Inst	Comp 1	Comp 2	Your Inst	Comp 1	Comp 2
Total (n)	820	12,212	35,867	284	5,521	15,603	536	6,691	20,264
Mean	51.0	50.6	50.7	50.5	50.6	50.7	51.3	50.6	50.6
Standard Deviation	8.15	8.44	8.39	7.97	8.53	8.46	8.25	8.37	8.33
Significance	-			-			-		
Effect Size	-	0.04	0.04	-	-0.02	-0.02	-	0.07	0.07
25th percentile	45.0	45.0	45.0	45.0	45.0	45.0	45.3	45.0	45.0
75th percentile	56.4	56.4	56.4	55.8	56.4	56.5	56.5	56.4	56.4

Note: Significance \* p<.05, \*\* p<.01, \*\*\* p<.001







### Survey items and estimation "weights":

Rate yourself on each of the following traits as compared with the average person your age:

- \* Ability to work cooperatively with diverse people (2.39)
- \* Tolerance of others with different beliefs (2.35)
- \* Openness to having my own views challenged (2.13)
- \* Ability to discuss and negotiate controversial issues (2.03)
- \* Ability to see the world from someone else's perspective (1.78)

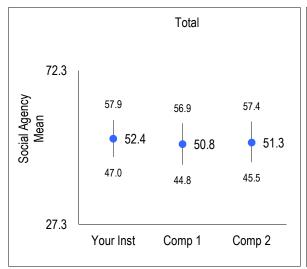
## **Social Agency**

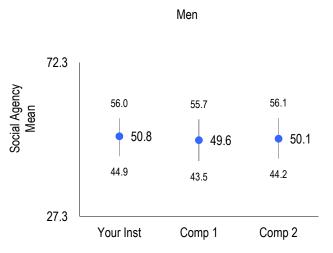
**CIRP Construct Mean Report** 

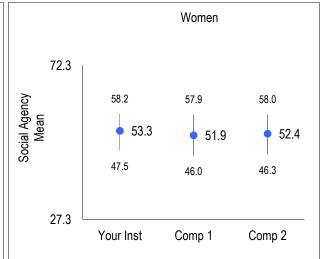
**Social Agency -** measures the extent to which students value political and social involvement as a personal goal.

		Total			Men			Women	
University of South Carolina-Columbia	Your Inst	Comp 1	Comp 2	Your Inst	Comp 1	Comp 2	Your Inst	Comp 1	Comp 2
Total (n)	770	8,586	31,045	268	3,905	13,461	502	4,681	17,584
Mean	52.4	50.8	51.3	50.8	49.6	50.1	53.3	51.9	52.4
Standard Deviation	8.79	9.50	9.34	8.53	9.53	9.43	8.82	9.33	9.12
Significance	-	***	**	-			-	**	*
Effect Size	-	0.17	0.12	-	0.12	0.07	-	0.14	0.10
25th percentile	47.0	44.8	45.5	44.9	43.5	44.2	47.5	46.0	46.3
75th percentile	57.9	56.9	57.4	56.0	55.7	56.1	58.2	57.9	58.0

Note: Significance \* p<.05, \*\* p<.01, \*\*\* p<.001







### Survey items and estimation "weights":

Indicate the importance to you personally of each of the following:

- \* Participating in a community action program (2.42)
- \* Helping to promote racial understanding (2.05)
- \* Becoming a community leader (2.01)

- \* Influencing social values (1.58)
- \* Helping others who are in difficulty (1.36)
- \* Keeping up to date with political affairs (1.35)

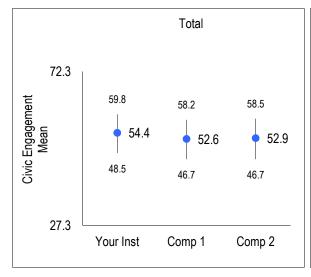
## **Civic Engagement**

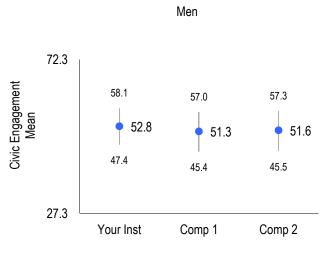
**CIRP Construct Mean Report** 

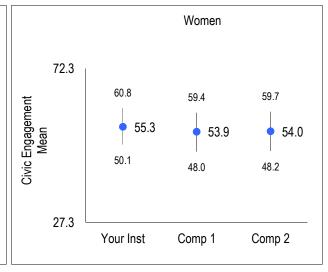
Civic Engagement - measures the extent to which students are motivated and involved in civic, electoral, and political activities.

		Total			Men			Women	
University of South Carolina-Columbia	Your Inst	Comp 1	Comp 2	Your Inst	Comp 1	Comp 2	Your Inst	Comp 1	Comp 2
Total (n)	820	12,535	36,429	284	5,691	15,898	536	6,844	20,531
Mean	54.4	52.6	52.9	52.8	51.3	51.6	55.3	53.9	54.0
Standard Deviation	7.99	8.33	8.39	7.83	8.26	8.38	7.95	8.22	8.25
Significance	-	***	***	-	**	*	-	***	***
Effect Size	-	0.21	0.18	-	0.18	0.14	-	0.17	0.16
25th percentile	48.5	46.7	46.7	47.4	45.4	45.5	50.1	48.0	48.2
75th percentile	59.8	58.2	58.5	58.1	57.0	57.3	60.8	59.4	59.7

Note: Significance \* p<.05, \*\* p<.01, \*\*\* p<.001







### Survey items and estimation "weights":

#### Indicate activities you did in the past year:

#### Indicate the importance to you personally of each of the following:

<sup>\*</sup>Demonstrated for a cause (e.g., boycott, rally, protest) (1.46)

<sup>\*</sup>Worked on local, state, or national political campaign (1.42)

<sup>\*</sup>Publicly communicated my opinion about a cause (e.g., blog, email, petition) (1.35)

<sup>\*</sup>Helped raise money for a cause or campaign (1.11)

<sup>\*</sup>Performed volunteer work (0.80)

<sup>\*</sup>Influencing social values (0.97)

<sup>\*</sup>Keeping up to date with political affairs (0.86)

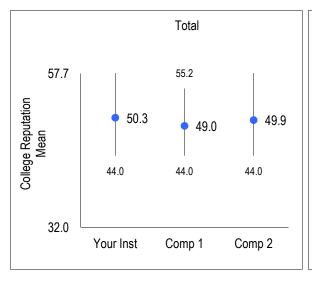
## **College Reputation Orientation**

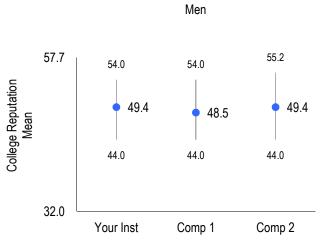
**CIRP Construct Mean Report** 

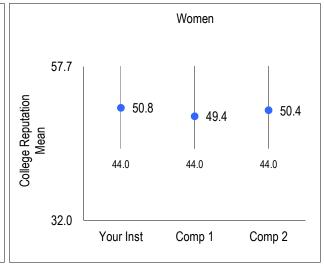
College Reputation Orientation - measures the degree to which students value academic reputation and future career potential as a reason for choosing this college.

		Total			Men			Women	
University of South Carolina-Columbia	Your Inst	Comp 1	Comp 2	Your Inst	Comp 1	Comp 2	Your Inst	Comp 1	Comp 2
Total (n)	793	9,790	32,813	275	4,399	14,201	518	5,391	18,612
Mean	50.3	49.0	49.9	49.4	48.5	49.4	50.8	49.4	50.4
Standard Deviation	8.23	8.53	8.59	7.96	8.37	8.48	8.33	8.66	8.66
Significance	-	***		-			-	***	
Effect Size	-	0.16	0.05	-	0.11	0.00	-	0.16	0.05
25th percentile	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0
75th percentile	60.3	55.2	60.3	54.0	54.0	55.2	60.3	60.3	60.3

Note: Significance \* p<.05, \*\* p<.01, \*\*\* p<.001







## Survey items and estimation "weights":

How important was each reason in your decision to come here?

- \* This college's graduates get good jobs (6.11)
- \* This college's graduates gain admission to top graduate/professional schools (2.50)
- \* This college has a very good academic reputation (1.54)

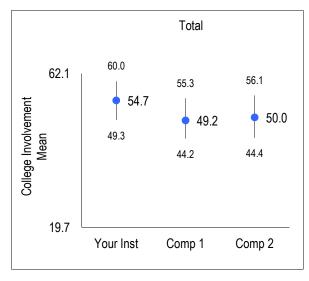
## Likelihood of College Involvement

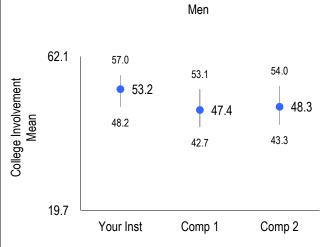
**CIRP Construct Mean Report** 

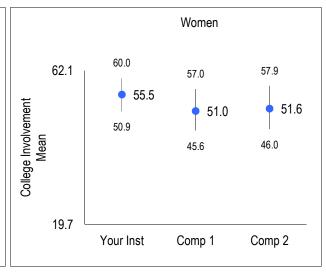
Likelihood of College Involvement - is a unified measure of students' expectations about their involvement in college life generally.

		Total			Men			Women	
University of South Carolina-Columbia	Your Inst	Comp 1	Comp 2	Your Inst	Comp 1	Comp 2	Your Inst	Comp 1	Comp 2
Total (n)	764	8,153	30,497	264	3,705	13,199	500	4,448	17,298
Mean	54.7	49.2	50.0	53.2	47.4	48.3	55.5	51.0	51.6
Standard Deviation	7.04	8.00	8.04	6.83	7.69	7.81	7.02	7.90	7.92
Significance	-	***	***	-	***	***	-	***	***
Effect Size	-	0.69	0.58	-	0.75	0.62	-	0.57	0.49
25th percentile	49.3	44.2	44.4	48.2	42.7	43.3	50.9	45.6	46.0
75th percentile	60.0	55.3	56.1	57.0	53.1	54.0	60.0	57.0	57.9

Note: Significance \* p<.05, \*\* p<.01, \*\*\* p<.001







### Survey items and estimation "weights":

## What is your best guess as to the chances that you will:

- \* Participate in student clubs/groups (3.25)
- \* Participate in volunteer or community service work (1.58)
- \* Socialize with someone of another racial/ethnic group (1.28)
- \* Participate in a study abroad program (1.24)
- \* Participate in student government (0.96)

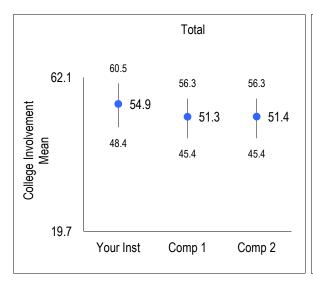
## Science Self-Efficacy

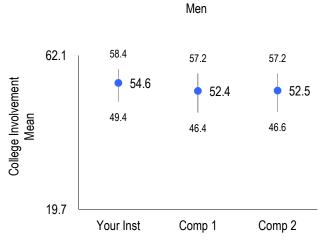
**CIRP Construct Mean Report** 

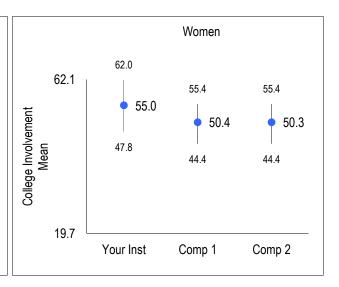
#### Science Self-Efficacy: A measure of students' confidence in their ability to conduct scientific research

		Total			Men			Women	
University of South Carolina-Columbia	Your Inst	Comp 1	Comp 2	Your Inst	Comp 1	Comp 2	Your Inst	Comp 1	Comp 2
Total (n)	820	11,554	35,033	284	5,261	15,275	536	6,293	19,758
Mean	54.9	51.3	51.4	54.6	52.4	52.5	55.0	50.4	50.3
Standard Deviation	9.37	9.15	9.14	8.39	8.89	8.87	9.85	9.30	9.25
Significance	-	***	***	-	***	***	-	***	***
Effect Size	-	0.38	0.38	-	0.25	0.24	-	0.50	0.50
25th percentile	48.4	45.4	45.4	49.4	46.4	46.6	47.8	44.4	44.4
75th percentile	60.5	56.3	56.3	58.4	57.2	57.2	62.0	55.4	55.4

Note: Significance \* p<.05, \*\* p<.01, \*\*\* p<.001







### Survey items and estimation "weights":

#### How confident are you that you can:

Use technical science skills (use of tools, instruments, and/or techniques) (1.48)

Generate a research question (2.33)

Determine how to college appropriate data (2.82)

Explain the results of a study (2.87)

Use scientific literature to guide research (2.70)

Integrate results from multiple studies (2.79)

Ask relevant questions (1.73)

Identify what is known and not known about a problem (1.95)

Understand scientific concepts (2.40)

See connections between different areas of science and mathematics (1.90)



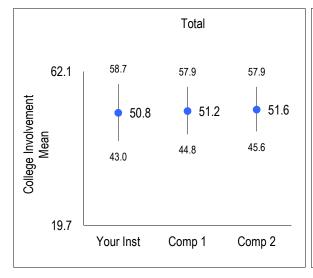
## **Science Identity**

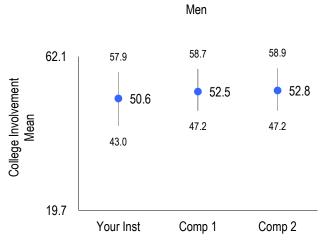
**CIRP Construct Mean Report** 

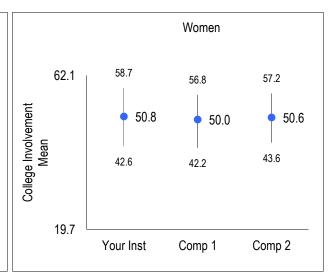
Science identity: The extent to which students conceive of themselves as scientists

		Total			Men			Women	
University of South Carolina-Columbia	Your Inst	Comp 1	Comp 2	Your Inst	Comp 1	Comp 2	Your Inst	Comp 1	Comp 2
Total (n)	781	9,002	31,682	270	4,106	13,760	511	4,896	17,922
Mean	50.8	51.2	51.6	50.6	52.5	52.8	50.8	50.0	50.6
Standard Deviation	9.97	9.70	9.46	10.00	9.22	9.05	9.96	10.00	9.69
Significance	-		*	-	**	***	-		
Effect Size	-	-0.05	-0.09	-	-0.20	-0.24	-	0.08	0.02
25th percentile	43.0	44.8	45.6	43.0	47.2	47.2	42.6	42.2	43.6
75th percentile	58.7	57.9	57.9	57.9	58.7	58.9	58.7	56.8	57.2

Note: Significance \* p<.05, \*\* p<.01, \*\*\* p<.001







## Survey items and estimation "weights":

### To what extent are the following statements true of you:

I have a strong sense of belonging to the community of scientists (3.52)

I derive great personal satisfaction from working on a team that is doing important research (1.78)

I think of myself as a scientist (5.53)

I feel like I belong in the field of science (4.43)



#### How to Read the CIRP Construct Percentage Report

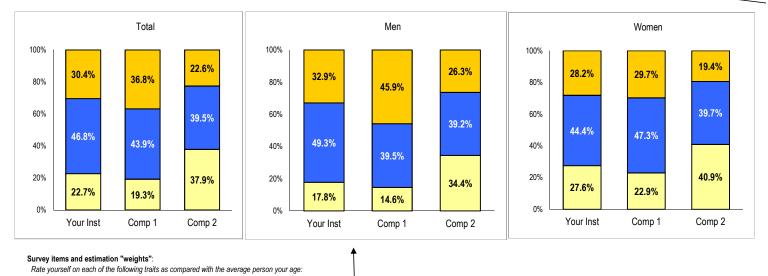
CIRP Constructs are designed to capture the experiences and outcomes institutions are often interested in understanding, but that present a measurement challenge because of their complex and multifaceted nature. To measure these broad underlying areas more precisely, we use Item Response Theory (IRT) to combine individual survey items into global measures that capture these areas. CIRP Constructs are more than a summation of related items; IRT uses response patterns to derive construct score estimates while simultaneously giving greater weight in the estimation process to survey items that tap into the construct more directly. This results in more accurate construct scores. Constructs are particularly useful for benchmarking. They allow you to determine if the experiences and outcomes for your students differ from your comparison groups. Two reports are generated for each CIRP Construct. The Mean Score Report shows comparative information based on the mean score of a construct. The Percentage Report shows comparative information based on the percentage of students who score in the high, average, and low score groups of a construct. We suggest you use the report that best fits your needs as an institution. Both CIRP Construct reports are generated for first-time, full-time freshmen, which we define as those respondents who first entered college in 2014 and are currently enrolled full-time.

For more information about IRT and the CIRP Construct development process, see the CIRP Constructs Technical Report at www.heri.ucla.edu

Academic Self-Concept - is a unified measure of students' beliefs about their abilities and confidence in academic environments.

	Total				Men		Women		
Sample University	Your Inst	Comp 1	Comp 2	Your Inst	Comp 1	Comp 2	Your Inst	Comp 1	Comp 2 ◀
Total (n)	313	13,401	30,456	153	5,876	13,369	160	7,525	17,087
High Academic Self-Concept	30.4%	36.8%	22.6%	32.9%	45.9%	26.3%	28.2%	29.7%	19.4%
Average Academic Self-Concept	46.8%	43.9%	39.5%	49.3%	39.5%	39.2%	44.4%	47.3%	39.7%
Low Academic Self-Concept	22.7%	19.3%	37.9%	17.8%	14.6%	34.4%	27.6%	22.9%	40.9%
Significance (based on High score group)	-	*	***	-	**	***	_		***

Note: Significance \* p<.05, \*\* p<.01, \*\*\* p<.001



Survey Items and Estimation "Weights" – The survey items used in the creation of the CIRP Construct are presented in the order in which they contribute to the construct along with the estimation weights generated in IRT. Items that tap into a trait more effectively are given

\* Academic ability (3.52)

\* Drive to achieve (0.95)

\* Mathematical ability (1.32)

\* Self-confidence - intellectual (1.22)

greater weight in the estimation process.

Charts – CIRP Constructs are scored on a z-score metric and rescaled for a mean of approximately 50 and standard deviation of 10. The Low, Average, and High construct score group percentages are reported here. The "Low" score group represents students who are one-half standard deviation below the mean. The "Average" score group represents students whose scores are within one-half standard deviation of the mean. The "High" score group represents students who are one-half standard deviation or more above the mean.

CIRP Construct Definition – Summarizes the theoretical rationale for creating the construct.

Comp 1 – The first comparison group is based on your institution's type, control, and selectivity.

Comp 2 – The second comparison group is based on your institution's type and control.

Statistical Significance - uses a proportional difference test to examine the difference between the percentage of students in the high score group for your institution and the percentage of students in the high score group in the comparison group. Differences larger than what would be expected by chance are noted with one, two, or three stars, which correspond to the three standard levels of significance (\*p<.05, \*\*p<.01, \*\*\*p<.001). Statistical significance measures the extent to which a difference is occurring by chance, not the extent to which a difference is practically important. Large sample sizes (like those in the comparison groups) tend to generate statistical significance even though the magnitude of the difference might be small and not practically important. Unlike the means scores report, in this case there are no effect size calculations to quide you in determining practical importance when comparing proportional differences.

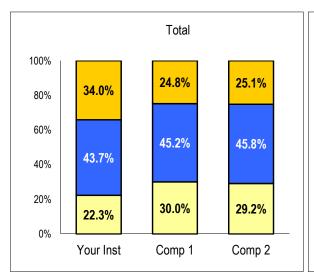
## **Habits of Mind**

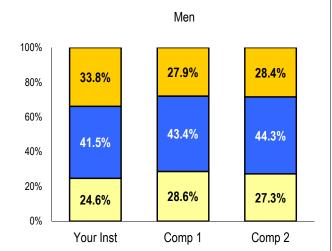
**CIRP Construct Percentage Report** 

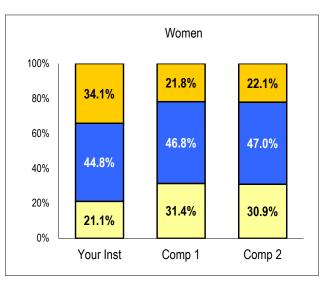
Habits of Mind - is a unified measure of the behaviors and traits associated with academic success. These learning behaviors are seen as the foundation for lifelong learning.

	Total				Men			Women		
University of South Carolina-Columbia	Your Inst	Comp 1	Comp 2	Your Inst	Comp 1	Comp 2	Your Inst	Comp 1	Comp 2	
Total (n)	820	11,979	35,628	284	5,423	15,514	536	6,556	20,114	
☐ High Habits of Mind	34.0%	24.8%	25.1%	33.8%	27.9%	28.4%	34.1%	21.8%	22.1%	
Average Habits of Mind	43.7%	45.2%	45.8%	41.5%	43.4%	44.3%	44.8%	46.8%	47.0%	
□ Low Habits of Mind	22.3%	30.0%	29.2%	24.6%	28.6%	27.3%	21.1%	31.4%	30.9%	
Significance (based on High score group)	-	***	***	-			-	***	***	

Note: Significance \* p<.05, \*\* p<.01, \*\*\* p<.001







### Survey items and estimation "weights":

#### How often in the past year did you:

- \* Seek solutions to problems and explain them to others (1.99)
- \* Support your opinions with a logical argument (1.74)
- \* Seek alternative solutions to a problem (1.61)
- \* Evaluate the quality or reliability of information you received (1.58)
- \* Explore topics on your own, even though it was not required for a class (1.27)
- \* Seek feedback on your academic work (1.24)

- \* Ask questions in class (1.20)
- \* Look up scientific research articles and resources (1.05)
- \* Revise your papers to improve your writing (1.04)
- \* Take a risk because you feel you have more to gain (1.03)
- \* Accept mistakes as part of the learning process (0.95)

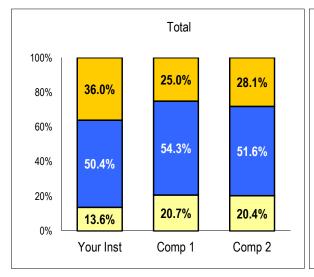
## **Academic Self-Concept**

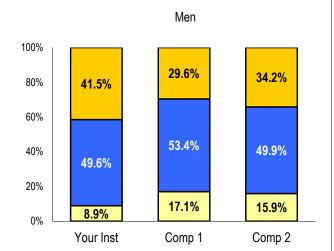
**CIRP Construct Percentage Report** 

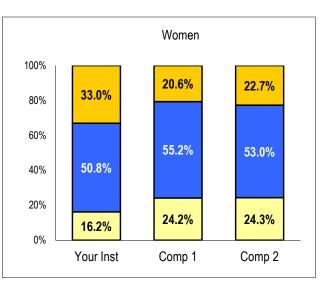
Academic Self-Concept - is a unified measure of students' beliefs about their abilities and confidence in academic environments.

	Total				Men			Women	
University of South Carolina-Columbia	Your Inst	Comp 1	Comp 2	Your Inst	Comp 1	Comp 2	Your Inst	Comp 1	Comp 2
Total (n)	806	10,982	34,354	282	4,969	14,935	524	6,013	19,419
☐ High Academic Self-Concept	36.0%	25.0%	28.1%	41.5%	29.6%	34.2%	33.0%	20.6%	22.7%
Average Academic Self-Concept	50.4%	54.3%	51.6%	49.6%	53.4%	49.9%	50.8%	55.2%	53.0%
□ Low Academic Self-Concept	13.6%	20.7%	20.4%	8.9%	17.1%	15.9%	16.2%	24.2%	24.3%
Significance (based on High score group)	-	***	**	•	**		•	***	**

Note: Significance \* p<.05, \*\* p<.01, \*\*\* p<.001







### Survey items and estimation "weights":

 $\label{lem:compared} \textbf{Rate yourself on each of the following traits as compared with the average person your age:}$ 

- \* Academic ability (3.52)
- \* Mathematical ability (1.32)
- \* Self-confidence intellectual (1.22)
- \* Drive to achieve (0.95)

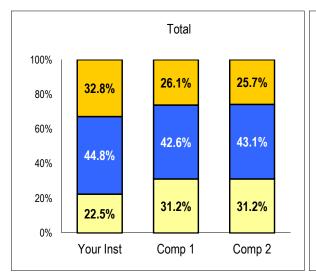
## **Social Self-Concept**

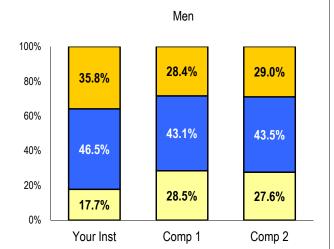
**CIRP Construct Percentage Report** 

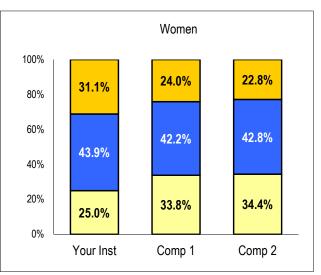
**Social Self-Concept -** is a unified measure of students' beliefs about their abilities and confidence in social situations.

		Total			Men				
University of South Carolina-Columbia	Your Inst	Comp 1	Comp 2	Your Inst	Comp 1	Comp 2	Your Inst	Comp 1	Comp 2
Total (n)	806	10,859	34,194	282	4,900	14,844	524	5,959	19,350
☐ High Social Self-Concept	32.8%	26.1%	25.7%	35.8%	28.4%	29.0%	31.1%	24.0%	22.8%
Average Social Self-Concept	44.8%	42.6%	43.1%	46.5%	43.1%	43.5%	43.9%	42.2%	42.8%
□ Low Social Self-Concept	22.5%	31.2%	31.2%	17.7%	28.5%	27.6%	25.0%	33.8%	34.4%
Significance (based on High score group)	-	*	**	_			-	*	*

Note: Significance \* p<.05, \*\* p<.01, \*\*\* p<.001







### Survey items and estimation "weights":

 $\label{lem:compared} \textbf{Rate yourself on each of the following traits as compared with the average person your age:}$ 

- \* Self-confidence social (2.33)
- \* Leadership ability (1.96)
- \* Popularity (1.92)
- \* Public speaking ability (1.68)

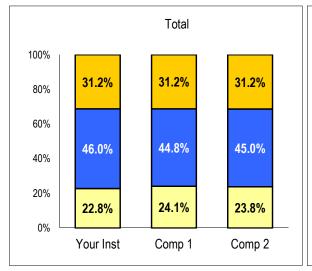
## **Pluralistic Orientation**

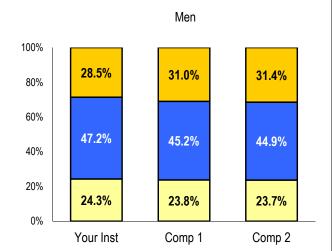
**CIRP Construct Percentage Report** 

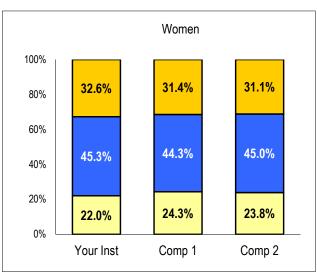
Pluralistic Orientation - measures skills and dispositions appropriate for living and working in a diverse society.

		Total			Men				
University of South Carolina-Columbia	Your Inst	Comp 1	Comp 2	Your Inst	Comp 1	Comp 2	Your Inst	Comp 1	Comp 2
Total (n)	820	12,212	35,867	284	5,521	15,603	536	6,691	20,264
☐ High Pluralistic Orientation	31.2%	31.2%	31.2%	28.5%	31.0%	31.4%	32.6%	31.4%	31.1%
Average Pluralistic Orientation	46.0%	44.8%	45.0%	47.2%	45.2%	44.9%	45.3%	44.3%	45.0%
□ Low Pluralistic Orientation	22.8%	24.1%	23.8%	24.3%	23.8%	23.7%	22.0%	24.3%	23.8%
Significance (based on High score group)	-			•			•		

Note: Significance \* p<.05, \*\* p<.01, \*\*\* p<.001







### Survey items and estimation "weights":

 $\label{lem:compared} \textbf{Rate yourself on each of the following traits as compared with the average person your age:}$ 

- \* Ability to work cooperatively with diverse people (2.39)
- \* Tolerance of others with different beliefs (2.35)
- \* Openness to having my own views challenged (2.13)
- \* Ability to discuss and negotiate controversial issues (2.03)
- \* Ability to see the world from someone else's perspective (1.78)

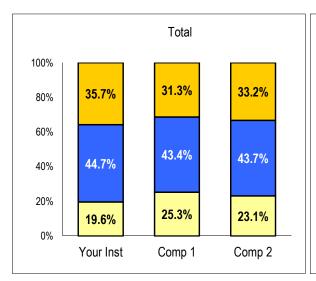
## Social Agency

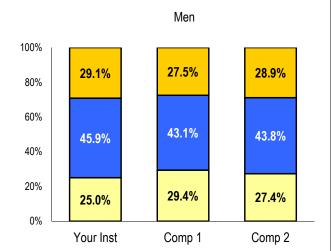
**CIRP Construct Percentage Report** 

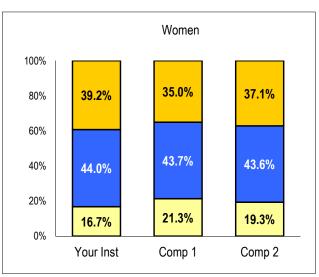
Social Agency - measures the extent to which students value political and social involvement as a personal goal.

		Total			Men				
University of South Carolina-Columbia	Your Inst	Comp 1	Comp 2	Your Inst	Comp 1	Comp 2	Your Inst	Comp 1	Comp 2
Total (n)	770	8,586	31,045	268	3,905	13,461	502	4,681	17,584
☐ High Social Agency	35.7%	31.3%	33.2%	29.1%	27.5%	28.9%	39.2%	35.0%	37.1%
Average Social Agency	44.7%	43.4%	43.7%	45.9%	43.1%	43.8%	44.0%	43.7%	43.6%
□ Low Social Agency	19.6%	25.3%	23.1%	25.0%	29.4%	27.4%	16.7%	21.3%	19.3%
Significance (based on High score group)	-			-			_		

Note: Significance \* p<.05, \*\* p<.01, \*\*\* p<.001







### Survey items and estimation "weights":

Indicate the importance to you personally of each of the following:

- \* Participating in a community action program (2.42)
- \* Helping to promote racial understanding (2.05)
- \* Becoming a community leader (2.01)

- \* Influencing social values (1.58)
- \* Helping others who are in difficulty (1.36)
- \* Keeping up to date with political affairs (1.35)

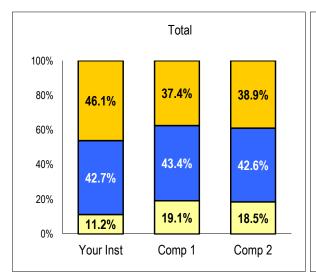
## **Civic Engagement**

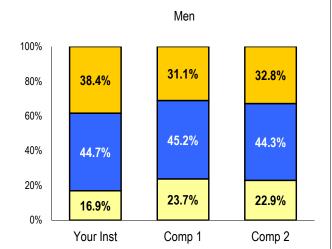
**CIRP Construct Percentage Report** 

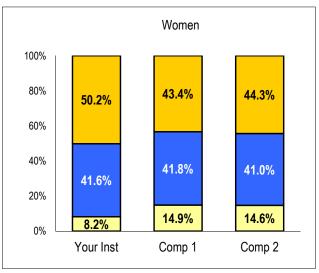
Civic Engagement - measures the extent to which students are motivated and involved in civic, electoral, and political activities.

		Total			Men			Women	
University of South Carolina-Columbia	Your Inst	Comp 1	Comp 2	Your Inst	Comp 1	Comp 2	Your Inst	Comp 1	Comp 2
Total (n)	820	12,535	36,429	284	5,691	15,898	536	6,844	20,531
☐ High Civic Engagement	46.1%	37.4%	38.9%	38.4%	31.1%	32.8%	50.2%	43.4%	44.3%
Average Civic Engagement	42.7%	43.4%	42.6%	44.7%	45.2%	44.3%	41.6%	41.8%	41.0%
□ Low Civic Engagement	11.2%	19.1%	18.5%	16.9%	23.7%	22.9%	8.2%	14.9%	14.6%
Significance (based on High score group)	-	***	**	•			-	*	

Note: Significance \* p<.05, \*\* p<.01, \*\*\* p<.001







### Survey items and estimation "weights":

## Indicate activities you did in the past year:

Indicate the importance to you personally of each of the following:

<sup>\*</sup>Demonstrated for a cause (e.g., boycott, rally, protest) (1.46)

<sup>\*</sup>Worked on local, state, or national political campaign (1.42)

<sup>\*</sup>Publicly communicated my opinion about a cause (e.g., blog, email, petition) (1.35)

<sup>\*</sup>Helped raise money for a cause or campaign (1.11)

<sup>\*</sup>Performed volunteer work (0.80)

<sup>\*</sup>Influencing social values (0.97)

<sup>\*</sup>Keeping up to date with political affairs (0.86)

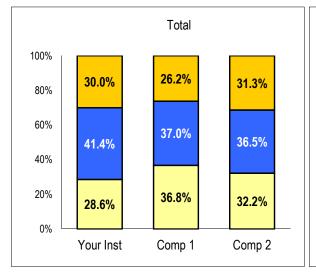
## **College Reputation Orientation**

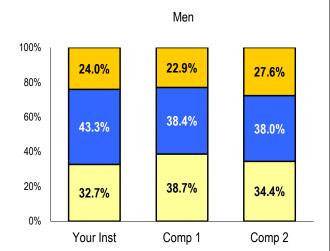
**CIRP Construct Percentage Report** 

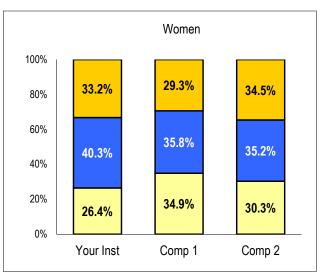
College Reputation Orientation - measures the degree to which students value academic reputation and future career potential as a reason for choosing this college.

	Total				Men			Women	
University of South Carolina-Columbia	Your Inst	Comp 1	Comp 2	Your Inst	Comp 1	Comp 2	Your Inst	Comp 1	Comp 2
Total (n)	793	9,790	32,813	275	4,399	14,201	518	5,391	18,612
☐ High College Reputation Orientation	30.0%	26.2%	31.3%	24.0%	22.9%	27.6%	33.2%	29.3%	34.5%
Average College Reputation Orientation	41.4%	37.0%	36.5%	43.3%	38.4%	38.0%	40.3%	35.8%	35.2%
☐ Low College Reputation Orientation	28.6%	36.8%	32.2%	32.7%	38.7%	34.4%	26.4%	34.9%	30.3%
Significance (based on High score group)	-			-			-		

Note: Significance \* p<.05, \*\* p<.01, \*\*\* p<.001







### Survey items and estimation "weights":

How important was each reason in your decision to come here?

- \* This college's graduates get good jobs (6.11)
- \* This college's graduates gain admission to top graduate/professional schools (2.50)
- \* This college has a very good academic reputation (1.54)

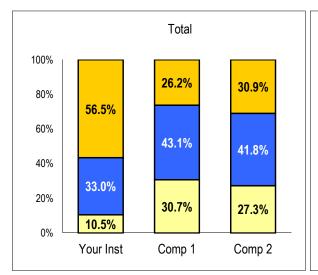
## **Likelihood of College Involvement**

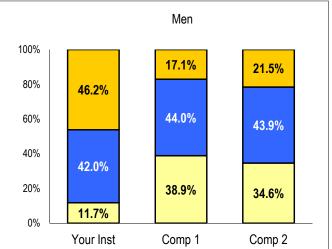
**CIRP Construct Percentage Report** 

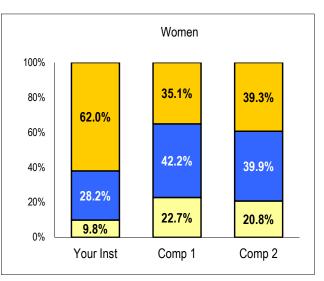
Likelihood of College Involvement - is a unified measure of students' expectations about their involvement in college life generally.

		Total			Men		Women		
University of South Carolina-Columbia	Your Inst	Comp 1	Comp 2	Your Inst	Comp 1	Comp 2	Your Inst	Comp 1	Comp 2
Total (n)	764	8,153	30,497	264	3,705	13,199	500	4,448	17,298
☐ High Likelihood of College Involvement	56.5%	26.2%	30.9%	46.2%	17.1%	21.5%	62.0%	35.1%	39.3%
Average Likelihood of College Involvement	33.0%	43.1%	41.8%	42.0%	44.0%	43.9%	28.2%	42.2%	39.9%
□ Low Likelihood of College Involvement	10.5%	30.7%	27.3%	11.7%	38.9%	34.6%	9.8%	22.7%	20.8%
Significance (based on High score group)	-	***	***	_	***	***	-	***	***

Note: Significance \* p<.05, \*\* p<.01, \*\*\* p<.001







### Survey items and estimation "weights":

### What is your best guess as to the chances that you will:

- \* Participate in student clubs/groups (3.25)
- \* Participate in volunteer or community service work (1.58)
- \* Socialize with someone of another racial/ethnic group (1.28)
- \* Participate in a study abroad program (1.24)
- \* Participate in student government (0.96)

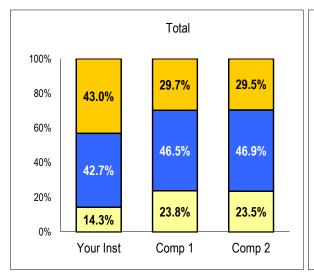
## **Science Self-Efficacy**

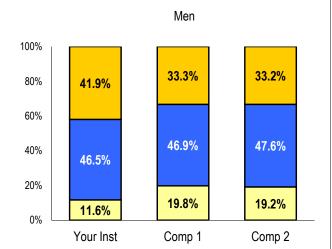
**CIRP Construct Percentage Report** 

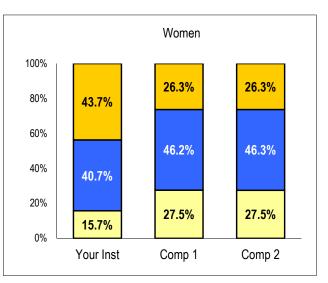
#### Science Self-Efficacy: A measure of students' confidence in their ability to conduct scientific research

		Total			Men			Women	
University of South Carolina-Columbia	Your Inst	Comp 1	Comp 2	Your Inst	Comp 1	Comp 2	Your Inst	Comp 1	Comp 2
Total (n)	820	11,554	35,033	284	5,261	15,275	536	6,293	19,758
☐ High Science Self-Efficacy	43.0%	29.7%	29.5%	41.9%	33.3%	33.2%	43.7%	26.3%	26.3%
Average Science Self-Efficacy	42.7%	46.5%	46.9%	46.5%	46.9%	47.6%	40.7%	46.2%	46.3%
□ Low Science Self-Efficacy	14.3%	23.8%	23.5%	11.6%	19.8%	19.2%	15.7%	27.5%	27.5%
Significance (based on High score group)	-	***	***	-	*	*	-	***	***

Note: Significance \* p<.05, \*\* p<.01, \*\*\* p<.001







### Survey items and estimation "weights":

#### How confident are you that you can:

Use technical science skills (use of tools, instruments, and/or techniques) (1.48)

Generate a research question (2.33)

Determine how to college appropriate data (2.82)

Explain the results of a study (2.87)

Use scientific literature to guide research (2.70)

Integrate results from multiple studies (2.79)

Ask relevant questions (1.73)

Identify what is known and not known about a problem (1.95)

Understand scientific concepts (2.40)

See connections between different areas of science and mathematics (1.90)

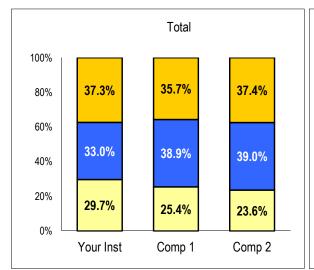
## Science Identity

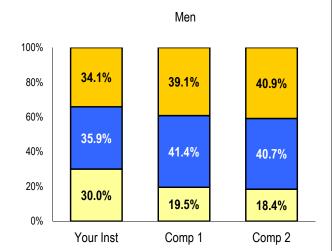
**CIRP Construct Percentage Report** 

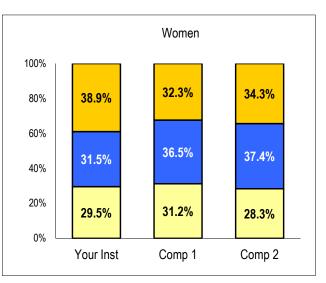
Science identity: The extent to which students conceive of themselves as scientists

		Total			Men			Women	
University of South Carolina-Columbia	Your Inst	Comp 1	Comp 2	Your Inst	Comp 1	Comp 2	Your Inst	Comp 1	Comp 2
Total (n)	781	9,002	31,682	270	4,106	13,760	511	4,896	17,922
☐ High Science Identity	37.3%	35.7%	37.4%	34.1%	39.1%	40.9%	38.9%	32.3%	34.3%
Average Science Identity	33.0%	38.9%	39.0%	35.9%	41.4%	40.7%	31.5%	36.5%	37.4%
□ Low Science Identity	29.7%	25.4%	23.6%	30.0%	19.5%	18.4%	29.5%	31.2%	28.3%
Significance (based on High score group)	-			-			-	*	

Note: Significance \* p<.05, \*\* p<.01, \*\*\* p<.001







#### Survey items and estimation "weights":

#### To what extent are the following statements true of you:

I have a strong sense of belonging to the community of scientists (3.52)

I derive great personal satisfaction from working on a team that is doing important research (1.78)

I think of myself as a scientist (5.53)

I feel like I belong in the field of science (4.43)