

2020 CIRP Freshman Survey

CIRP Construct Reports

First-time, Full-time Freshmen

University of California-San Diego

Comparison group 1: Public Universities Comparison group 2: All universities



2020 CIRP Freshman Survey CIRP Construct Reports

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How to Read the CIRP Construct Mean Report

CIRP Construct Definition – Summarizes the theoretical rationale for creating the

Standard Deviation – Measures the variability around the mean. A

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 the the responses are spread over a larger range of response options.

Statistical Significance - Uses ttest 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.

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 2020 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/Trans men		Wo	men/Trans wom	en		Genderqueer*	
Sample U	niversity	Your Inst	Comp 1	Comp 2	Your Inst	Comp 1	Comp 2	Your Inst	Comp 1	Comp 2	Your Inst	Comp 1	Comp 2
Total (n)		619	21,085	42,939	300	10,706	19,535	319	10,379	23,404	19	105	214
Mean		48.4	49.6	49.3	48.8	50.2	49.7	48.0	49.1	48.9	47.8	48.1	48.0◀
Standard Deviation		8.74	8.55	8.85	8.67	8.67	8.97	8.80	8.41	8.74	8.80	8.41	8.74
Significance		-	***		-	**		-			-		
Effect Size		-	-0.14	-0.10	-	-0.16	-0.10	-	-0.12	-0.10	<u> </u>	-0.12	-0.10
25th percentile		41.9	43.5	43.0	42.8	44.1	43.0	40.6	43.0	42.8	40.2	43.0	42.8
75th percentile		54.0	55.3	54.8	54.1	56.4	56.1	53.5	54.1	54.2	53.5	53.6	53.9

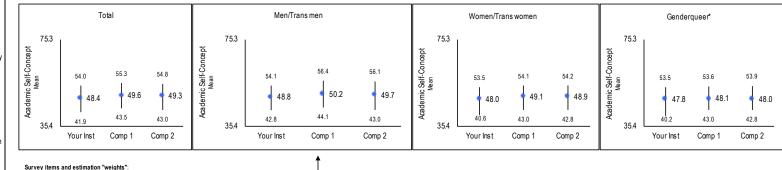
Note: Significance * p<.05, ** p<.01, *** p<.001

* Academic ability (3.52)

* Drive to achieve (0.95)

* Mathematical ability (1.22)

* Self-confidence - (intellectual) (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

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

Charts – Provide a visual display of relevant construct scores for your institution and two comparison groups. The Yaxis 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 z-score 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 your 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.

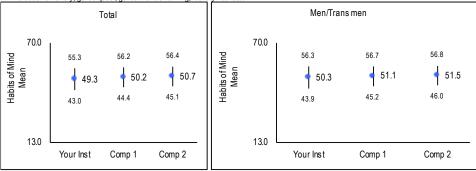
2020 CIRP Freshman Survey First-time, Full-time Freshmen Habits of Mind CIRP Construct Mean Report

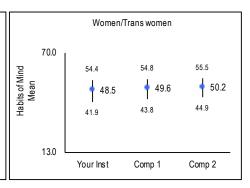
Habits of Mind - is a unified measure of the behaviors and traits associated with academic success. These learning behaviors are seen as the foundation for lifelong learning.

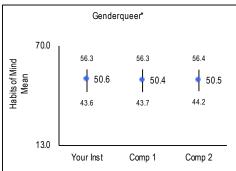
	Total			N	len/Trans mei	1	Won	nen/Trans wo	men	0	enderqueer	*
University of California-San Diego	Your Inst	Comp 1	Comp 2	Your Inst	Comp 1	Comp 2	Your Inst	Comp 1	Comp 2	Your Inst	Comp 1	Comp 2
Total (n)	2,850	5,020	17,058	1,180	2,053	6,291	1,565	2,774	10,020	96	174	666
Mean	49.3	50.2	50.7	50.3	51.1	51.5	48.5	49.6	50.2	50.6	50.4	50.5
Standard Deviation	8.77	8.53	8.33	8.70	8.58	8.34	8.68	8.39	8.24	9.32	8.88	8.78
Significance	-	***	***	-	*	***	-	***	***	-		
Effect Size	-	-0.10	-0.16	-	-0.09	-0.14	-	-0.13	-0.21	-	0.02	0.02
25th percentile	43.0	44.4	45.1	43.9	45.2	46.0	41.9	43.8	44.9	43.6	43.7	44.2
75th percentile	55.3	56.2	56.4	56.3	56.7	56.8	54.4	54.8	55.5	56.3	56.3	56.4

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

* Includes non-binary, genderqueer, gender non-conforming, identity not listed







Survey items and estimation "weights":

How often in the past year did you:

- * Seek solutions to problems and explain them to others (2.17)
- * Support your opinions with a logical argument (1.81)
- *Look up scientific research articles and resources (1.71)
- * Take a risk because you felt you had more to gain (1.68)
- * Accept mistakes as part of the learning process (1.24)
- * Take on a challenge that scares you (1.20)

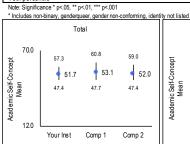
- * Ask questions in class (1.26)
- *Explore topics on your own, even though it was not required for a class (1.09)
- *Evaluate the quality or reliability of information you received (1.13)
- * Seek alternative solutions to a problem (1.14)
- * Analyze multiple sources of information before coming to a conclusion (0.98)

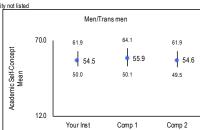


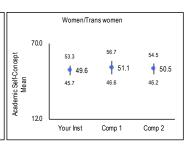
Academic Self-Concept - is a unified measure of students' beliefs about their abilities and confidence in academic environments.

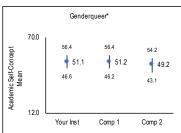
	Total			N	len/Trans mei	n	Won	nen/Trans wo	men	G	enderqueer	*
University of California-San Diego	Your Inst	Comp 1	Comp 2	Your Inst	Comp 1	Comp 2	Your Inst	Comp 1	Comp 2	Your Inst	Comp 1	Comp 2
Total (n)	2,818	4,941	16,741	1,170	2,026	6,189	1,545	2,727	9,818	94	170	655
Mean	51.7	53.1	52.0	54.5	55.9	54.6	49.6	51.1	50.5	51.1	51.2	49.2
Standard Deviation	8.48	8.63	8.56	8.33	8.37	8.58	7.91	8.19	8.09	9.15	9.13	8.75
Significance	-	***		-	***		-	***	***	-		
Effect Size		-0.16	-0.04		-0.17	-0.01		-0.19	-0.12	<u>-</u>	-0.01	0.21
25th percentile	47.4	47.7	47.4	50.0	50.1	49.5	45.7	46.6	46.2	46.6	46.2	43.1
75th percentile	57.3	60.8	59.0	61.9	64.1	61.9	53.3	56.7	54.5	56.4	56.4	54.2











Survey items and estimation "weights":

Survey items and estimation weights:

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

*Academic ability (3.08)

*Mathematical ability (1.37)

*Self-confidence (intellectual) (1.24)

*Drive to achieve (0.91)

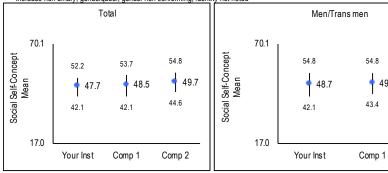
2020 CIRP Freshman Survey First-time, Full-time Freshmen Social Self-Concept CIRP Construct Mean Report

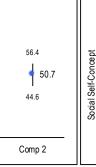
Social Self-Concept - is a unified measure of students' beliefs about their abilities and confidence in social situations.

	Total			N	len/Trans me	n	Wor	nen/Trans wo	men	(Genderqueer	*
University of California-San Diego	Your Inst	Comp 1	Comp 2	Your Inst	Comp 1	Comp 2	Your Inst	Comp 1	Comp 2	Your Inst	Comp 1	Comp 2
Total (n)	2,817	4,940	16,740	1,170	2,026	6,189	1,545	2,727	9,819	94	170	655
Mean	47.7	48.5	49.7	48.7	49.4	50.7	46.9	47.7	49.1	48.5	48.7	49.3
Standard Deviation	8.47	8.44	8.39	8.73	8.79	8.56	8.13	8.09	8.20	9.36	8.89	8.67
Significance	-	***	***	-	*	***	-	**	***	-		
Effect Size	-	-0.09	-0.24	-	-0.08	-0.23	-	-0.10	-0.27	-	-0.02	-0.09
25th percentile	42.1	42.1	44.6	42.1	43.4	44.6	41.3	42.1	44.3	42.1	42.1	43.7
75th percentile	52.2	53.7	54.8	54.8	54.8	56.4	52.2	52.2	54.8	54.8	54.5	54.8

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

* Includes non-binary, genderqueer, gender non-conforming, identity not listed

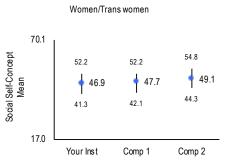


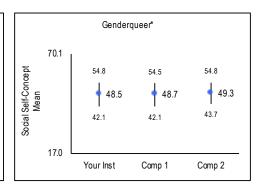


54.8

43.4

49.4





Survey items and estimation "weights":

- * Self-confidence (social) (1.55)
- *Leadership ability (2.43)
- * Public speaking ability (1.90)

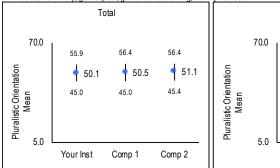
2020 CIRP Freshman Survey First-time, Full-time Freshmen Pluralistic Orientation CIRP Construct Mean Report

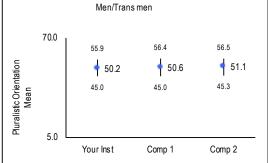
Pluralistic Orientation - measures skills and dispositions appropriate for living and working in a diverse society.

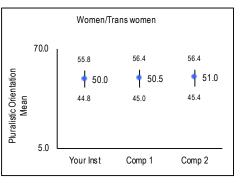
	Total			N	len/Trans me	n	Wor	nen/Trans wo	men	(Genderqueer	*
University of California-San Diego	Your Inst	Comp 1	Comp 2	Your Inst	Comp 1	Comp 2	Your Inst	Comp 1	Comp 2	Your Inst	Comp 1	Comp 2
Total (n)	2,868	5,060	17,176	1,186	2,066	6,325	1,575	2,796	10,094	98	179	679
Mean	50.1	50.5	51.1	50.2	50.6	51.1	50.0	50.5	51.0	51.0	50.8	51.1
Standard Deviation	8.41	8.27	7.96	8.54	8.39	8.12	8.29	8.14	7.83	8.89	8.70	8.34
Significance	-	*	***	-		***	-	*	***	-		
Effect Size	-	-0.05	-0.12	-	-0.05	-0.12	-	-0.07	-0.13	-	0.02	-0.01
25th percentile	45.0	45.0	45.4	45.0	45.0	45.3	44.8	45.0	45.4	45.4	45.4	45.3
75th percentile	55.9	56.4	56.4	55.9	56.4	56.5	55.8	56.4	56.4	56.5	56.5	56.5

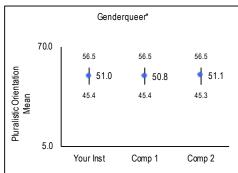
Note: Significance * p<.05, ** p<.01, *** p<.001

* Includes non-binary, genderqueer, gender non-conforming, identity not listed









Survey items and estimation "weights":

- * Ability to see the world from someone else's perspective (1.40)
- * Tolerance of others with different beliefs (1.64)
- * Openness to having my own views challenged (1.57)
- * Ability to discuss and negotiate controversial issues (1.53)
- * Ability to work cooperatively with diverse people (1.68)

2020 CIRP Freshman Survey First-time, Full-time Freshmen Social Agency CIRP Construct Mean Report

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

	Total			N	len/Trans me	1	Wor	nen/Trans wo	men	G	enderqueer	*
University of California-San Diego	Your Inst	Comp 1	Comp 2	Your Inst	Comp 1	Comp 2	Your Inst	Comp 1	Comp 2	Your Inst	Comp 1	Comp 2
Total (n)	2,775	4,838	16,374	1,155	1,995	6,079	1,522	2,665	9,586	90	161	633
Mean	52.9	53.5	54.6	50.6	51.1	52.3	54.6	55.2	55.9	54.6	55.0	56.0
Standard Deviation	8.94	9.01	8.83	8.80	8.97	8.99	8.63	8.62	8.42	9.19	9.31	9.05
Significance	-	*	***	-		***	-		***	-		
Effect Size	-	-0.06	-0.19	-	-0.06	-0.19	-	-0.06	-0.16	-	-0.03	-0.14
25th percentile	46.8	47.5	48.7	45.2	45.7	46.3	48.9	49.4	50.4	48.6	49.0	50.1
75th percentile	58.4	59.2	60.2	56.4	56.9	58.0	59.7	60.3	61.4	60.8	60.8	61.5

58.0

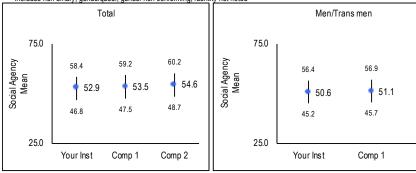
46.3

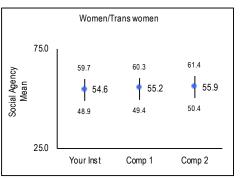
Comp 2

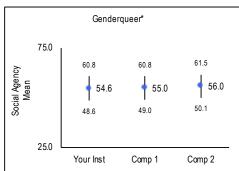
52.3

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

* Includes non-binary, genderqueer, gender non-conforming, identity not listed







Survey items and estimation "weights":

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

- * Keeping up to date with political affairs (1.48)
- *Participating in a community action program (2.41)
- * Influencing social values (1.64)

- * Becoming a community leader (2.09)
- * Helping others who are in difficulty (1.17)
- * Helping to promote racial understanding (2.15)

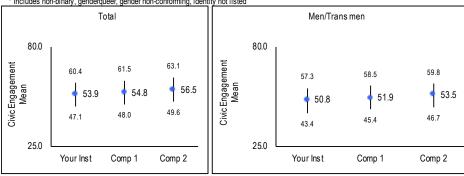
2020 CIRP Freshman Survey First-time, Full-time Freshmen Civic Engagement CIRP Construct Mean Report

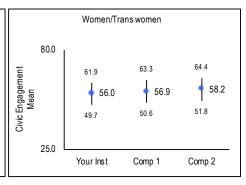
Civic Engagement - measures the extent to which students are motivated and involved in civic, electoral, and political activities.

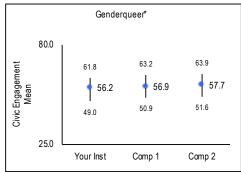
	Total			N	len/Trans me	n	Wor	nen/Trans wo	men	0	Genderqueer	*
University of California-San Diego	Your Inst	Comp 1	Comp 2	Your Inst	Comp 1	Comp 2	Your Inst	Comp 1	Comp 2	Your Inst	Comp 1	Comp 2
Total (n)	2,885	5,105	17,320	1,191	2,081	6,371	1,587	2,825	10,182	98	180	682
Mean	53.9	54.8	56.5	50.8	51.9	53.5	56.0	56.9	58.2	56.2	56.9	57.7
Standard Deviation	9.08	9.25	9.30	8.59	8.79	9.03	8.72	8.95	9.00	9.59	9.60	9.37
Significance	-	***	***	-	***	***	-	**	***	-		
Effect Size	-	-0.10	-0.28	-	-0.12	-0.30	-	-0.09	-0.24	-	-0.07	-0.16
25th percentile	47.1	48.0	49.6	43.4	45.4	46.7	49.7	50.6	51.8	49.0	50.9	51.6
75th percentile	60.4	61.5	63.1	57.3	58.5	59.8	61.9	63.3	64.4	61.8	63.2	63.9

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

* Includes non-binary, genderqueer, gender non-conforming, identity not listed







Survey items and estimation "weights":

Indicate activities you did in the past year:

- *Demonstrated for a cause (e.g., boycott, rally, protest) (1.46)
- * Performed volunteer work (0.80)
- *Helped raise money for a cause or campaign (1.42)
- * Publicly communicated my opinion about a cause (e.g., blog, email, petition) (1.11)

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

- * Influencing social values (0.97)
- * Keeping up to date with political affairs (0.86)

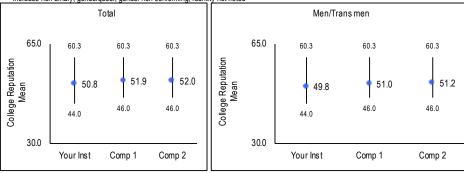


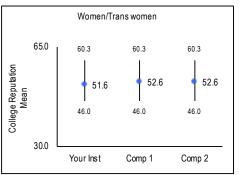
College Reputation Orientation - measures the degree to which students value academic reputation and future career potential as a reason for choosing this college.

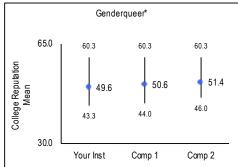
	Total			N	len/Trans me	n	Wor	nen/Trans wo	men	G	enderqueer	*
University of California-San Diego	Your Inst	Comp 1	Comp 2	Your Inst	Comp 1	Comp 2	Your Inst	Comp 1	Comp 2	Your Inst	Comp 1	Comp 2
Total (n)	2,790	4,881	16,521	1,162	2,011	6,133	1,529	2,690	9,670	91	163	642
Mean	50.8	51.9	52.0	49.8	51.0	51.2	51.6	52.6	52.6	49.6	50.6	51.4
Standard Deviation	8.14	7.90	7.66	8.13	7.96	7.77	8.00	7.71	7.51	9.07	8.98	8.10
Significance	-	***	***	-	***	***	-	***	***	-		*
Effect Size	-	-0.13	-0.15	-	-0.15	-0.18	-	-0.13	-0.13	-	-0.11	-0.23
25th percentile	44.0	46.0	46.0	44.0	46.0	46.0	46.0	46.0	46.0	43.3	44.0	46.0
75th percentile	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3

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

* Includes non-binary, genderqueer, gender non-conforming, identity not listed







Survey items and estimation "weights":

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

- * This college's graduates get good jobs (4.90)
- * This college's graduates gain admission to top graduate/professional schools (2.10)
- * This college has a very good academic reputation (1.48)

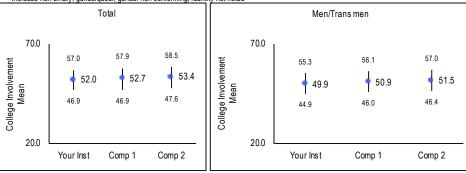
2020 CIRP Freshman Survey First-time, Full-time Freshmen Likelihood of College Involvement CIRP Construct Mean Report

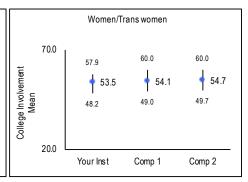
Likelihood of College Involvement - is a unified measure of students' expectations about their involvement in college life generally.

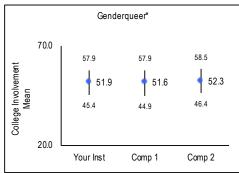
	Total			N	len/Trans me	n	Wor	nen/Trans wo	men	9	enderqueer	*
University of California-San Diego	Your Inst	Comp 1	Comp 2	Your Inst	Comp 1	Comp 2	Your Inst	Comp 1	Comp 2	Your Inst	Comp 1	Comp 2
Total (n)	2,774	4,832	16,347	1,155	1,992	6,072	1,521	2,662	9,569	90	161	630
Mean	52.0	52.7	53.4	49.9	50.9	51.5	53.5	54.1	54.7	51.9	51.6	52.3
Standard Deviation	6.94	7.11	7.08	6.77	6.90	7.10	6.55	6.88	6.73	8.40	8.30	7.68
Significance	-	***	***	-	***	***	-	*	***	-		
Effect Size	-	-0.10	-0.20	-	-0.14	-0.23	-	-0.08	-0.17	-	0.04	-0.06
25th percentile	46.9	46.9	47.6	44.9	46.0	46.4	48.2	49.0	49.7	45.4	44.9	46.4
75th percentile	57.0	57.9	58.5	55.3	56.1	57.0	57.9	60.0	60.0	57.9	57.9	58.5

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

* Includes non-binary, genderqueer, gender non-conforming, identity not listed







Survey items and estimation "weights":

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

- * Participate in a study abroad program (1.28)
- * Participate in volunteer or community service work (1.51)
- * Participate in student government (0.79)
- * Participate in student clubs/groups (3.39)

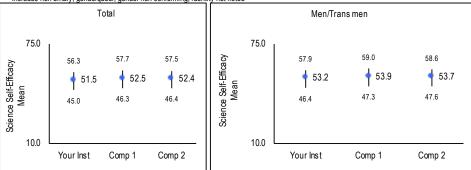
2020 CIRP Freshman Survey First-time, Full-time Freshmen Science Self-Efficacy CIRP Construct Mean Report

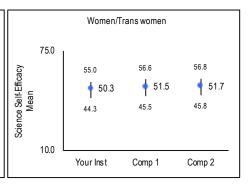
Science Self-Efficacy - is a measure of students' confidence in their ability to conduct scientific research

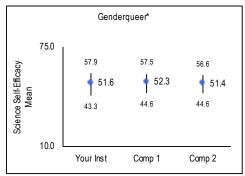
	Total			N	len/Trans me	n	Wo	men/Trans wo	men	G	Senderqueer	*
University of California-San Diego	Your Inst	Comp 1	Comp 2	Your Inst	Comp 1	Comp 2	Your Inst	Comp 1	Comp 2	Your Inst	Comp 1	Comp 2
Total (n)	2,834	4,977	16,866	1,175	2,039	6,236	1,555	2,747	9,892	95	172	658
Mean	51.5	52.5	52.4	53.2	53.9	53.7	50.3	51.5	51.7	51.6	52.3	51.4
Standard Deviation	9.53	9.43	9.26	9.58	9.48	9.18	9.24	9.18	9.17	10.38	10.47	9.82
Significance	-	***	***	-	*		-	***	***	-		
Effect Size	-	-0.10	-0.10	-	-0.07	-0.05	-	-0.14	-0.16	-	-0.07	0.01
25th percentile	45.0	46.3	46.4	46.4	47.3	47.6	44.3	45.5	45.8	43.3	44.6	44.6
75th percentile	56.3	57.7	57.5	57.9	59.0	58.6	55.0	56.6	56.8	57.9	57.5	56.6

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

* Includes non-binary, genderqueer, gender non-conforming, identity not listed







Survey items and estimation "weights":

How confident are you that you can:

- * Use technical science skills (use of tools, instruments, and/or techniques) (1.49)
- * Generate an answerable research question (2.33)
- * Determine how to collect 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)

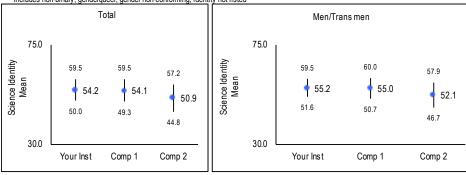
2020 CIRP Freshman Survey First-time, Full-time Freshmen Science Identity CIRP Construct Mean Report

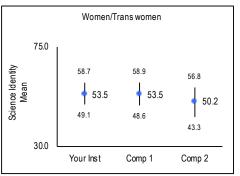
Science Identity - measures the extent to which students conceive of themselves as scientists.

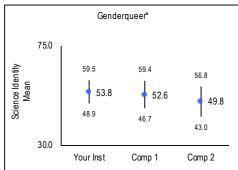
	Total			N	len/Trans me	n	Wor	nen/Trans wo	men	(Genderqueer	*
University of California-San Diego	Your Inst	Comp 1	Comp 2	Your Inst	Comp 1	Comp 2	Your Inst	Comp 1	Comp 2	Your Inst	Comp 1	Comp 2
Total (n)	2,779	4,855	16,408	1,158	2,000	6,088	1,522	2,675	9,607	91	163	639
Mean	54.2	54.1	50.9	55.2	55.0	52.1	53.5	53.5	50.2	53.8	52.6	49.8
Standard Deviation	7.72	8.05	9.03	7.34	7.76	8.70	7.87	8.14	9.14	8.34	8.98	9.28
Significance	-		***	-		***	-		***	-		***
Effect Size	-	0.02	0.37	-	0.03	0.37	-	0.00	0.36	-	0.13	0.43
25th percentile	50.0	49.3	44.8	51.6	50.7	46.7	49.1	48.6	43.3	48.9	46.7	43.0
75th percentile	59.5	59.5	57.2	59.5	60.0	57.9	58.7	58.9	56.8	59.5	59.4	56.8

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

* Includes non-binary, genderqueer, gender non-conforming, identity not listed







Survey items and estimation "weights":

To what extent are the following statements true of you:

- *I have a strong sense of belonging to a 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 (5.54)
- *Ifeel 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 2020 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.

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.

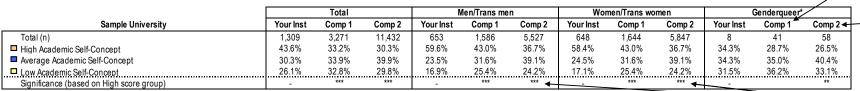
in this case there are no effect

size calculations to guide you

importance when comparing

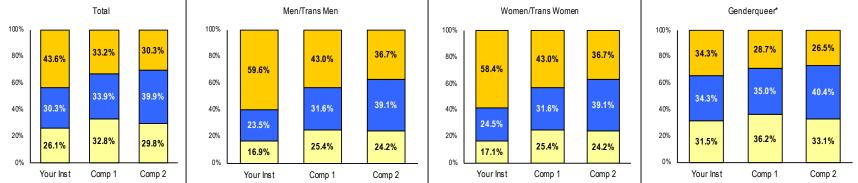
in determining practical

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



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

* Includes Non-binary, Genderqueer, Gender non-conforming, Identity not listed



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 (1.32)

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 – 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.



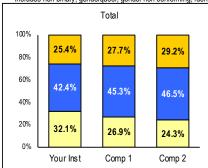
2020 CIRP Freshman Survey First-time, Full-time Freshmen Habits of Mind CIRP Construct Percentage Report

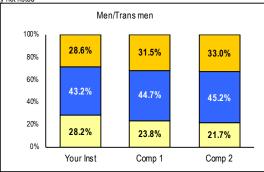
Habits of Mind - is a unified measure of the behaviors and traits associated with academic success. These learning behaviors are seen as the foundation for lifelong learning.

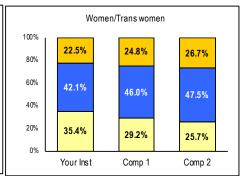
	Total			Men/Trans men			Won	nen/Trans wo	men	Genderqueer*		
University of California-San Diego	Your Inst	Comp 1	Comp 2	Your Inst	Comp 1	Comp 2	Your Inst	Comp 1	Comp 2	Your Inst	Comp 1	Comp 2
Total (n)	2,850	5,020	17,058	1,180	2,053	6,291	1,565	2,774	10,020	96	174	666
☐ High Habits of Mind	25.4%	27.7%	29.2%	28.6%	31.5%	33.0%	22.5%	24.8%	26.7%	32.3%	28.7%	29.9%
Average Habits of Mind	42.4%	45.3%	46.5%	43.2%	44.7%	45.2%	42.1%	46.0%	47.5%	39.6%	44.8%	43.2%
☐ Low Habits of Mind	32.1%	26.9%	24.3%	28.2%	23.8%	21.7%	35.4%	29.2%	25.7%	28.1%	26.4%	26.9%
Significance (based on High score group)	-		*	-			-			-		

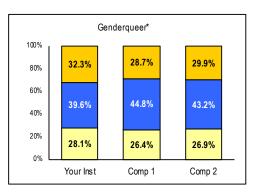
Note: Significance * p<.05, ** p<.01, *** p<.001

* Includes non-binary, genderqueer, gender non-conforming, identity not listed









Survey items and estimation "weights":

How often in the past year did you:

- * Seek solutions to problems and explain them to others (2.17)
- * Support your opinions with a logical argument (1.81)
- *Look up scientific research articles and resources (1.71)
- * Take a risk because you felt you had more to gain (1.68)
- * Accept mistakes as part of the learning process (1.24)
- * Take on a challenge that scares you (1.20)

- * Ask questions in class (1.26)
- * Explore topics on your own, even though it was not required for a class (1.09)
- * Evaluate the quality or reliability of information you received (1.13)
- * Seek alternative solutions to a problem (1.14)
- * Analyze multiple sources of information before coming to a conclusion (0.98)

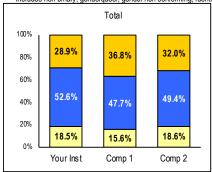
2020 CIRP Freshman Survey First-time, Full-time Freshmen Academic Self-Concept CIRP Construct Percentage Report

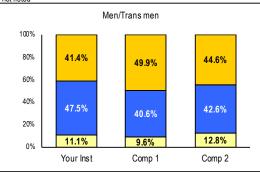
Academic Self-Concept - is a unified measure of students' beliefs about their abilities and confidence in academic environments.

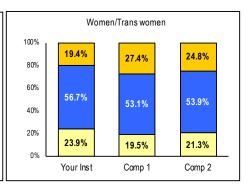
	Total			Men/Trans men			Won	nen/Trans woi	men	Genderqueer*		
University of California-San Diego	Your Inst	Comp 1	Comp 2	Your Inst	Comp 1	Comp 2	Your Inst	Comp 1	Comp 2	Your Inst	Comp 1	Comp 2
Total (n)	2,818	4,941	16,741	1,170	2,026	6,189	1,545	2,727	9,818	94	170	655
☐ High Academic Self-Concept	28.9%	36.8%	32.0%	41.4%	49.9%	44.6%	19.4%	27.4%	24.8%	27.7%	28.8%	22.1%
Average Academic Self-Concept	52.6%	47.7%	49.4%	47.5%	40.6%	42.6%	56.7%	53.1%	53.9%	52.1%	47.6%	47.3%
□ Low Academic Self-Concept	18.5%	15.6%	18.6%	11.1%	9.6%	12.8%	23.9%	19.5%	21.3%	20.2%	23.5%	30.5%
Significance (based on High score group)	-	***		-	**		-	**	*	-		

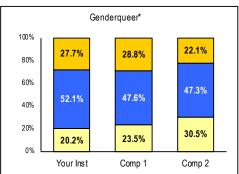
Note: Significance * p<.05, ** p<.01, *** p<.001

* Includes non-binary, genderqueer, gender non-conforming, identity not listed









Survey items and estimation "weights":

- * Academic ability (3.08)
- * Mathematical ability (1.37)
- * Self-confidence (intellectual) (1.24)
- * Drive to achieve (0.91)

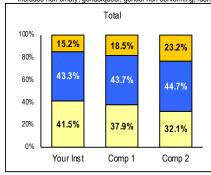
2020 CIRP Freshman Survey First-time, Full-time Freshmen Social Self-Concept CIRP Construct Percentage Report

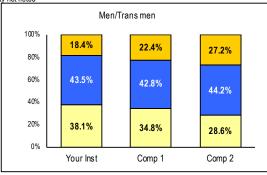
Social Self-Concept - is a unified measure of students' beliefs about their abilities and confidence in social situations.

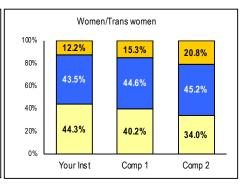
	Total			Men/Trans men			Won	nen/Trans woi	men	Genderqueer*		
University of California-San Diego	Your Inst	Comp 1	Comp 2	Your Inst	Comp 1	Comp 2	Your Inst	Comp 1	Comp 2	Your Inst	Comp 1	Comp 2
Total (n)	2,817	4,940	16,740	1,170	2,026	6,189	1,545	2,727	9,819	94	170	655
☐ High Social Self-Concept	15.2%	18.5%	23.2%	18.4%	22.4%	27.2%	12.2%	15.3%	20.8%	22.3%	22.4%	21.4%
Average Social Self-Concept	43.3%	43.7%	44.7%	43.5%	42.8%	44.2%	43.5%	44.6%	45.2%	36.2%	38.8%	42.1%
Low Social Self-Concept	41.5%	37.9%	32.1%	38.1%	34.8%	28.6%	44.3%	40.2%	34.0%	41.5%	38.8%	36.5%
Significance (based on High score group)	-		***	-		**	-		**	-		

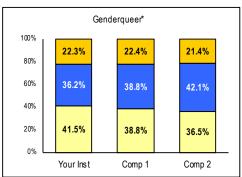
Note: Significance * p<.05, ** p<.01, *** p<.001

* Includes non-binary, genderqueer, gender non-conforming, identity not listed









Survey items and estimation "weights":

- * Self-confidence (social) (1.55)
- *Leadership ability (2.43)
- * Public speaking ability (1.90)

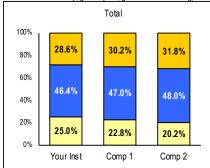
2020 CIRP Freshman Survey First-time, Full-time Freshmen Pluralistic Orientation CIRP Construct Percentage Report

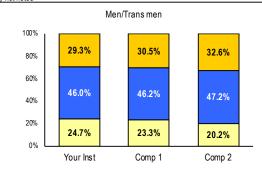
Pluralistic Orientation - measures skills and dispositions appropriate for living and working in a diverse society.

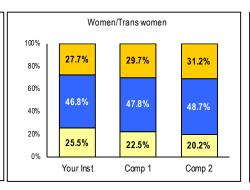
	Total			Men/Trans men			Won	nen/Trans woi	men	Genderqueer*		
University of California-San Diego	Your Inst	Comp 1	Comp 2	Your Inst	Comp 1	Comp 2	Your Inst	Comp 1	Comp 2	Your Inst	Comp 1	Comp 2
Total (n)	2,868	5,060	17,176	1,186	2,066	6,325	1,575	2,796	10,094	98	179	679
☐ High Pluralistic Orientation	28.6%	30.2%	31.8%	29.3%	30.5%	32.6%	27.7%	29.7%	31.2%	33.7%	34.1%	33.6%
Average Pluralistic Orientation	46.4%	47.0%	48.0%	46.0%	46.2%	47.2%	46.8%	47.8%	48.7%	42.9%	44.7%	45.1%
Low Pluralistic Orientation	25.0%	22.8%	20.2%	24.7%	23.3%	20.2%	25.5%	22.5%	20.2%	23.5%	21.2%	21.4%
Significance (based on High score group)	-			-			-			-		

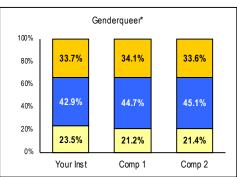
Note: Significance * p<.05, ** p<.01, *** p<.001

* Includes non-binary, genderqueer, gender non-conforming, identity not listed









Survey items and estimation "weights":

- * Ability to see the world from someone else's perspective (1.40)
- * Tolerance of others with different beliefs (1.64)
- * Openness to having my own views challenged (1.57)
- * Ability to discuss and negotiate controversial issues (1.53)
- * Ability to work cooperatively with diverse people (1.68)



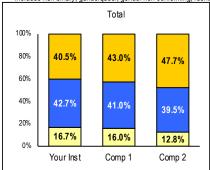
2020 CIRP Freshman Survey First-time, Full-time Freshmen Social Agency CIRP Construct Percentage Report

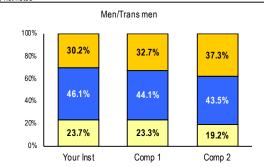
Social Agency - measures the extent to which students value political and social involvement as a personal goal.

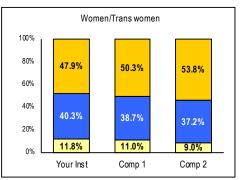
	Total			Men/Trans men			Won	nen/Trans woi	men	Genderqueer*		
University of California-San Diego	Your Inst	Comp 1	Comp 2	Your Inst	Comp 1	Comp 2	Your Inst	Comp 1	Comp 2	Your Inst	Comp 1	Comp 2
Total (n)	2,775	4,838	16,374	1,155	1,995	6,079	1,522	2,665	9,586	90	161	633
☐ High Social Agency	40.5%	43.0%	47.7%	30.2%	32.7%	37.3%	47.9%	50.3%	53.8%	48.9%	49.7%	54.7%
Average Social Agency	42.7%	41.0%	39.5%	46.1%	44.1%	43.5%	40.3%	38.7%	37.2%	40.0%	39.8%	35.7%
□ Low Social Agency	16.7%	16.0%	12.8%	23.7%	23.3%	19.2%	11.8%	11.0%	9.0%	11.1%	10.6%	9.6%
Significance (based on High score group)	-		***	-		*	-		**	-		

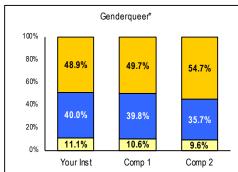
Note: Significance * p<.05, ** p<.01, *** p<.001

* Includes non-binary, genderqueer, gender non-conforming, identity not listed









Survey items and estimation "weights":

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

- * Keeping up to date with political affairs (1.48)
- * Participating in a community action program (2.41)
- * Influencing social values (1.64)

- * Becoming a community leader (2.09)
- * Helping others who are in difficulty (1.17)
- * Helping to promote racial understanding (2.15)

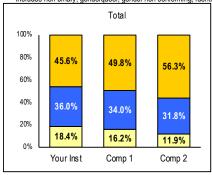
2020 CIRP Freshman Survey First-time, Full-time Freshmen Civic Engagement CIRP Construct Percentage Report

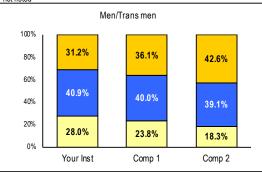
Civic Engagement - measures the extent to which students are motivated and involved in civic, electoral, and political activities.

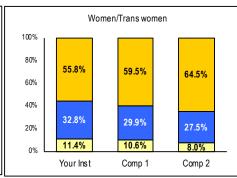
	Total			Men/Trans men			Won	nen/Trans woi	men	Genderqueer*		
University of California-San Diego	Your Inst	Comp 1	Comp 2	Your Inst	Comp 1	Comp 2	Your Inst	Comp 1	Comp 2	Your Inst	Comp 1	Comp 2
Total (n)	2,885	5,105	17,320	1,191	2,081	6,371	1,587	2,825	10,182	98	180	682
☐ High Civic Engagement	45.6%	49.8%	56.3%	31.2%	36.1%	42.6%	55.8%	59.5%	64.5%	55.1%	56.7%	62.8%
Average Civic Engagement	36.0%	34.0%	31.8%	40.9%	40.0%	39.1%	32.8%	29.9%	27.5%	30.6%	30.0%	26.7%
Low Civic Engagement	18.4%	16.2%	11.9%	28.0%	23.8%	18.3%	11.4%	10.6%	8.0%	14.3%	13.3%	10.6%
Significance (based on High score group)	-	*	***	-		***	-		***	-		

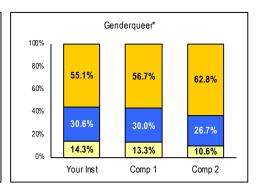
Note: Significance * p<.05, ** p<.01, *** p<.001

* Includes non-binary, genderqueer, gender non-conforming, identity not listed









Survey items and estimation "weights":

Indicate activities you did in the past year:

- * Demonstrated for a cause (e.g., boycott, rally, protest) (1.46)
- * Performed volunteer work (0.80)
- * Helped raise money for a cause or campaign (1.42)
- * Publicly communicated my opinion about a cause (e.g., blog, email, petition) (1.11)

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

- * Influencing social values (0.97)
- * Keeping up to date with political affairs (0.86)

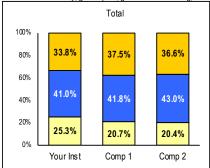
2020 CIRP Freshman Survey First-time, Full-time Freshmen College Reputation Orientation CIRP Construct Percentage Report

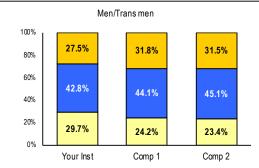
College Reputation Orientation - measures the degree to which students value academic reputation and future career potential as a reason for choosing this college.

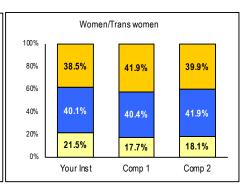
	Total			Men/Trans men			Won	nen/Trans woi	men	Genderqueer*		
University of California-San Diego	Your Inst	Comp 1	Comp 2	Your Inst	Comp 1	Comp 2	Your Inst	Comp 1	Comp 2	Your Inst	Comp 1	Comp 2
Total (n)	2,790	4,881	16,521	1,162	2,011	6,133	1,529	2,690	9,670	91	163	642
☐ High College Reputation Orientation	33.8%	37.5%	36.6%	27.5%	31.8%	31.5%	38.5%	41.9%	39.9%	31.9%	35.0%	35.8%
Average College Reputation Orientation	41.0%	41.8%	43.0%	42.8%	44.1%	45.1%	40.1%	40.4%	41.9%	34.1%	36.8%	39.9%
□ Low College Reputation Orientation	25.3%	20.7%	20.4%	29.7%	24.2%	23.4%	21.5%	17.7%	18.1%	34.1%	28.2%	24.3%
Significance (based on High score group)	-			-			-			-		

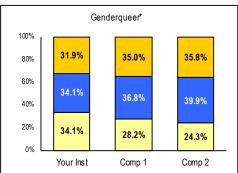
Note: Significance * p<.05, ** p<.01, *** p<.001

* Includes non-binary, genderqueer, gender non-conforming, identity not listed









Survey items and estimation "weights":

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

- * This college's graduates get good jobs (4.90)
- * This college's graduates gain admission to top graduate/professional schools (2.10)
- * This college has a very good academic reputation (1.48)

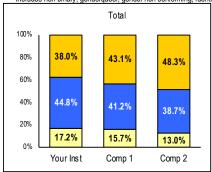
2020 CIRP Freshman Survey First-time, Full-time Freshmen Likelihood of College Involvement CIRP Construct Percentage Report

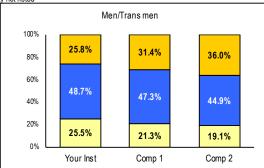
Likelihood of College Involvement - is a unified measure of students' expectations about their involvement in college life generally.

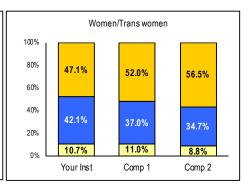
	Total			Men/Trans men			Won	nen/Trans woi	men	Genderqueer*		
University of California-San Diego	Your Inst	Comp 1	Comp 2	Your Inst	Comp 1	Comp 2	Your Inst	Comp 1	Comp 2	Your Inst	Comp 1	Comp 2
Total (n)	2,774	4,832	16,347	1,155	1,992	6,072	1,521	2,662	9,569	90	161	630
☐ High Likelihood of College Involvement	38.0%	43.1%	48.3%	25.8%	31.4%	36.0%	47.1%	52.0%	56.5%	37.8%	38.5%	42.4%
Average Likelihood of College Involvement	44.8%	41.2%	38.7%	48.7%	47.3%	44.9%	42.1%	37.0%	34.7%	40.0%	36.0%	39.4%
Low Likelihood of College Involvement	17.2%	15.7%	13.0%	25.5%	21.3%	19.1%	10.7%	11.0%	8.8%	22.2%	25.5%	18.3%
Significance (based on High score group)	-	**	***	-		***	-	*	***	-		

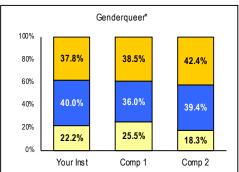
Note: Significance * p<.05, ** p<.01, *** p<.001

* Includes non-binary, genderqueer, gender non-conforming, identity not listed









Survey items and estimation "weights":

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

- * Participate in a study abroad program (1.28)
- * Participate in volunteer or community service work (1.51)
- * Participate in student government (0.79)
- * Participate in student clubs/groups (3.39)

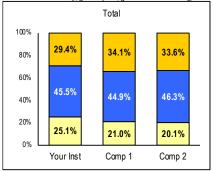
2020 CIRP Freshman Survey First-time, Full-time Freshmen Science Self-Efficacy CIRP Construct Percentage Report

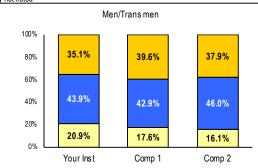
Science Self-Efficacy - is a measure of students' confidence in their ability to conduct scientific research

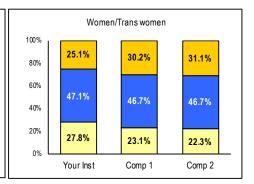
	Total			Men/Trans men			Wo	men/Trans wo	men	Genderqueer*		
University of California-San Diego	Your Inst	Comp 1	Comp 2	Your Inst	Comp 1	Comp 2	Your Inst	Comp 1	Comp 2	Your Inst	Comp 1	Comp 2
Total (n)	2,834	4,977	16,866	1,175	2,039	6,236	1,555	2,747	9,892	95	172	658
■ High Science Self-Efficacy	29.4%	34.1%	33.6%	35.1%	39.6%	37.9%	25.1%	30.2%	31.1%	30.5%	32.6%	29.9%
Average Science Self-Efficacy	45.5%	44.9%	46.3%	43.9%	42.9%	46.0%	47.1%	46.7%	46.7%	38.9%	40.7%	44.1%
□ Low Science Self-Efficacy	25.1%	21.0%	20.1%	20.9%	17.6%	16.1%	27.8%	23.1%	22.3%	30.5%	26.7%	26.0%
Significance (based on High score group)	-	*	*	-			-		*	-		

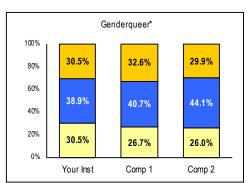
Note: Significance * p<.05, ** p<.01, *** p<.001

* Includes non-binary, genderqueer, gender non-conforming, identity not listed









Survey items and estimation "weights":

How confident are you that you can:

- *Use technical science skills (use of tools, instruments, and/or techniques) (1.49)
- * Generate an answerable research question (2.33)
- *Determine how to collect 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)

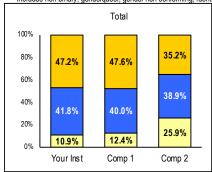
2020 CIRP Freshman Survey First-time, Full-time Freshmen Science Identity CIRP Construct Percentage Report

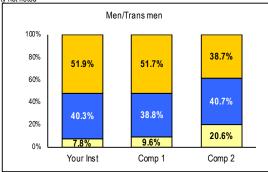
Science Identity - measures the extent to which students conceive of themselves as scientists.

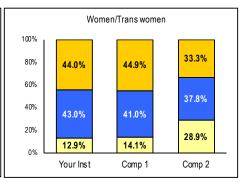
	Total			Men/Trans men			Won	nen/Trans woi	men	Genderqueer*		
University of California-San Diego	Your Inst	Comp 1	Comp 2	Your Inst	Comp 1	Comp 2	Your Inst	Comp 1	Comp 2	Your Inst	Comp 1	Comp 2
Total (n)	2,779	4,855	16,408	1,158	2,000	6,088	1,522	2,675	9,607	91	163	639
☐ High Science Identity	47.2%	47.6%	35.2%	51.9%	51.7%	38.7%	44.0%	44.9%	33.3%	42.9%	39.3%	30.2%
Average Science Identity	41.8%	40.0%	38.9%	40.3%	38.8%	40.7%	43.0%	41.0%	37.8%	40.7%	39.9%	38.3%
□ Low Science Identity	10.9%	12.4%	25.9%	7.8%	9.6%	20.6%	12.9%	14.1%	28.9%	16.5%	20.9%	31.5%
Significance (based on High score group)	-		***	-		***	-		***	-		

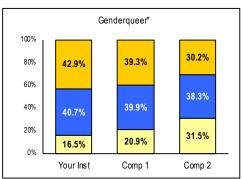
Note: Significance * p<.05, ** p<.01, *** p<.001

* Includes non-binary, genderqueer, gender non-conforming, identity not listed









Survey items and estimation "weights":

To what extent are the following statements true of you:

- *I have a strong sense of belonging to a 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 (5.54)
- *I feel like I belong in the field of science (4.43)