



# **2016 Institutional Learning Outcomes (ILO) Assessment**

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## **Graduation Survey (Spring 2016)**

Prepared for:  
Planning & Budgeting Council

Prepared by:  
PRIE

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**Cañada College** 4200 Farm Hill Blvd. Redwood City, CA 94061

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## ILO ASSESSMENT FOR 2015-16

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### Background Explanation

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The College's Institutional Learning Outcomes (ILOs) identify the knowledge, skills, abilities and attitudes that will characterize students who successfully complete a program of study. Consequently, the College surveys its prospective graduates requesting them to perform a self-assessment of their achievement of the ILOs. Although these surveys do not directly assess student performance of ILOs, in essence, the self-assessments serve as an indicator of institutional effectiveness. Survey results from students who do not apply for graduation serve as a point of comparison since they are less likely to have completed their program of study.

The College conducted a Graduation Survey May 2016. We emailed to 917 students who applied for graduation for summer 2014, fall 2015, spring 2016, and summer 2016, as well as those who claimed to transfer to 4-year universities. There were **124** students who completed the survey and the return rate was about 14%.

The College's ILOs include:

1. **Critical Thinking**  
Select, evaluate, and use information to investigate a point of view, support a conclusion, or engage in problem solving.
2. **Creativity**  
Produce, combine, or synthesize ideas in creative ways within or across disciplines.
3. **Communication**  
Use language to effectively convey an idea or a set of facts, including the accurate use of source material and evidence according to institutional and discipline standards.
4. **Community**  
Understand and interpret various points of view that emerge from a diverse world of peoples and cultures.
5. **Quantitative Reasoning**  
Represent complex data in various mathematical forms (e.g., equations, graphs, diagrams, tables, and words) and analyze these data to draw appropriate conclusions.

## Executive Summary

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Overall, students rated their level of achievement from high to low on these 5 ILOs:

- ILO 4 Community (3.61)
- ILO 1 Critical Thinking (3.59)
- ILO 3 Communication (3.51)
- ILO 2 Creativity (3.51)
- ILO 5 Quantitative Reasoning (3.45)

Of participate note, **the strongest responses** in all ILOs items obtained by the following statements.

- I can work effectively with diverse groups of people to accomplish a task or solve a problem. (ILO 4)
- I can identify the contributions of people from of a different economic, social, racial or ethnic background than my own. (ILO 4)
- I can analyze the basic elements of an argument, idea, or theory. (ILO 1)

While this result does not signify true weakness or failure, it does indicate there is opportunity for improvement.

The weakest responses were obtained by the following statements:

- I can use equations to analyze and solve problems. (ILO 5)
- I can critically analyze whether data, presented in graphs, tables or diagrams, support appropriate conclusions. (ILO5)
- I can draw from a variety of sources and inspirations to create unique, imaginative or innovative ideas or works. (ILO2)

In terms of disaggregate data,

- (a) Male seem slightly rated higher than female of the desired institutional learning outcomes (not statistical significant).
- (b) In terms of ethnicity and age group, there is no specific patterns observed.

## ILO 1: Critical Thinking

Select, evaluate, and use information to investigate a point of view, support a conclusion, or engage in problem solving.

Mean Score

Graduate 2014	Graduate 2015	Graduate 2016
N=244	N=162	N=124
3.34	3.52	3.59

*Average of items from Table 1*

*1=Strongly Disagree, 2=Disagree, 3=Agree, 4=Strongly Agree*

Table 1. Mean Score

<b>ILO I: Critical Thinking-related questions</b>	<b>Graduate 2014 N=244</b>	<b>Graduate 2015 N=162</b>	<b>Graduate 2016 N=124</b>
1. Through my educational experience at Cañada College, I can apply theories or concepts to solving practical problems.	3.34	3.50	3.59
2. Through my educational experience at Cañada College, I can analyze the basic elements of an argument, idea, or theory.	3.31	3.51	3.60
3. Through my educational experience at Cañada College, I can select, evaluate, and use information to support a conclusion.	3.38	3.55	3.58

## ILO 2: Creativity

**Produce, combine, or synthesize ideas in creative ways within or across disciplines.**

Mean Score

Graduate 2014	Graduate 2015	Graduate 2016
N=244	N=162	N=124
3.33	3.48	3.51

*Average of items from Table 2*

*1=Strongly Disagree, 2=Disagree, 3=Agree, 4=Strongly Agree*

Table 2

<b>ILO 2: Creativity-related questions</b>	<b>Graduate 2014 N=244</b>	<b>Graduate 2015 N=162</b>	<b>Graduate 2016 N=124</b>
4. Through my educational experience at Cañada College, I can draw from a variety of sources and inspirations to create unique, imaginative or innovative ideas or works.	3.30	3.46	3.47
5. Through my educational experience at Cañada College, I can identify and evaluate multiple approaches to solving problems.	3.31	3.46	3.52
6. Through my educational experience at Cañada College, I can apply the knowledge or skills that I acquired in one discipline to work that I do in another discipline.	3.39	3.53	3.54

## ILO 3: Communication

**Use language to effectively convey an idea or a set of facts, including the accurate use of source material and evidence according to institutional and discipline standards.**

Mean Score

Graduate 2014	Graduate 2015	Graduate 2016
N=244	N=162	N=124
3.37	3.48	3.51

*Average of items from Table 3*

*1=Strongly Disagree, 2=Disagree, 3=Agree, 4=Strongly Agree*

Table 3

<b>ILO 3: Communication-related questions</b>	<b>Graduate 2014 N=244</b>	<b>Graduate 2015 N=162</b>	<b>Graduate 2016 N=124</b>
7. Through my educational experience at Cañada College, I can speak clearly and effectively to convey an idea or set of facts.	3.31	3.48	3.48
8. Through my educational experience at Cañada College, I can write clearly and effectively to convey an idea or set of facts.	3.35	3.51	3.51
9. Through my educational experience at Cañada College, I can find and evaluate sources of information and cite sources appropriately according to institutional and discipline standards.	3.40	3.45	3.52
10. Through my educational experience at Cañada College, I can integrate ideas or information from a variety of sources into a document or report.	3.41	3.50	3.54

## ILO 4: Community

**Understand and interpret various points of view that emerge from a diverse world of peoples and cultures.**

Mean Score

Graduate 2014	Graduate 2015	Graduate 2016
N=244	N=162	N=124
3.44	3.52	3.61

*Average of items from Table 4*

*1=Strongly Disagree, 2=Disagree, 3=Agree, 4=Strongly Agree*

Table 4

<b>ILO 4: Community-related questions</b>	<b>Graduate 2014 N=244</b>	<b>Graduate 2015 N=162</b>	<b>Graduate 2016 N=124</b>
11. Through my educational experience at Cañada College, I can understand the perspective of people who hold religious beliefs, political opinions, or personal values that substantially differ from my own.	3.43	3.47	3.60
12. Through my educational experience at Cañada College, I can work effectively with diverse groups of people to accomplish a task or solve a problem.	3.44	3.54	3.62
13. Through my educational experience at Cañada College, I can identify the contributions of people from of a different economic, social, racial or ethnic background than my own.	3.46	3.54	3.62



## ILO 5: Quantitative Reasoning

**Represent complex data in various mathematical forms (e.g., equations, graphs, diagrams, tables, and words) and analyze these data to draw appropriate conclusions.**

Mean Score

Graduate 2014	Graduate 2015	Graduate 2016
N=244	N=162	N=124
3.31	3.42	3.45

*Average of items from Table 4*

*1=Strongly Disagree, 2=Disagree, 3=Agree, 4=Strongly Agree*

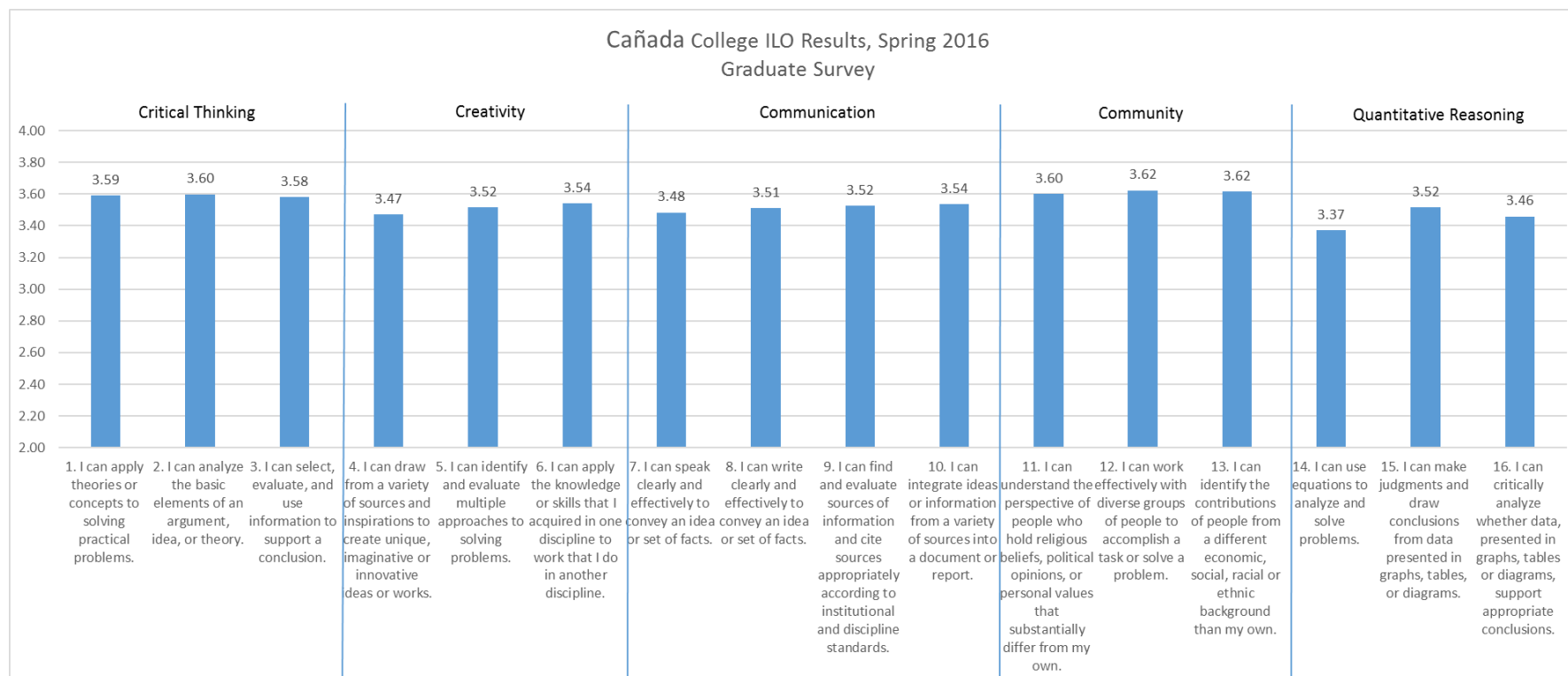
Table 4

<b>ILO 5: Quantitative-related questions</b>	<b>Graduate 2014 N=244</b>	<b>Graduate 2015 N=162</b>	<b>Graduate 2016 N=124</b>
14. Through my educational experience at Cañada College, I can use equations to analyze and solve problems.	3.32	3.38	3.37
15. Through my educational experience at Cañada College, I can make judgments and draw conclusions from data presented in graphs, tables, or diagrams.	3.31	3.46	3.52
16. Through my educational experience at Cañada College, I can critically analyze whether data, presented in graphs, tables or diagrams, support appropriate conclusions.	3.29	3.41	3.46

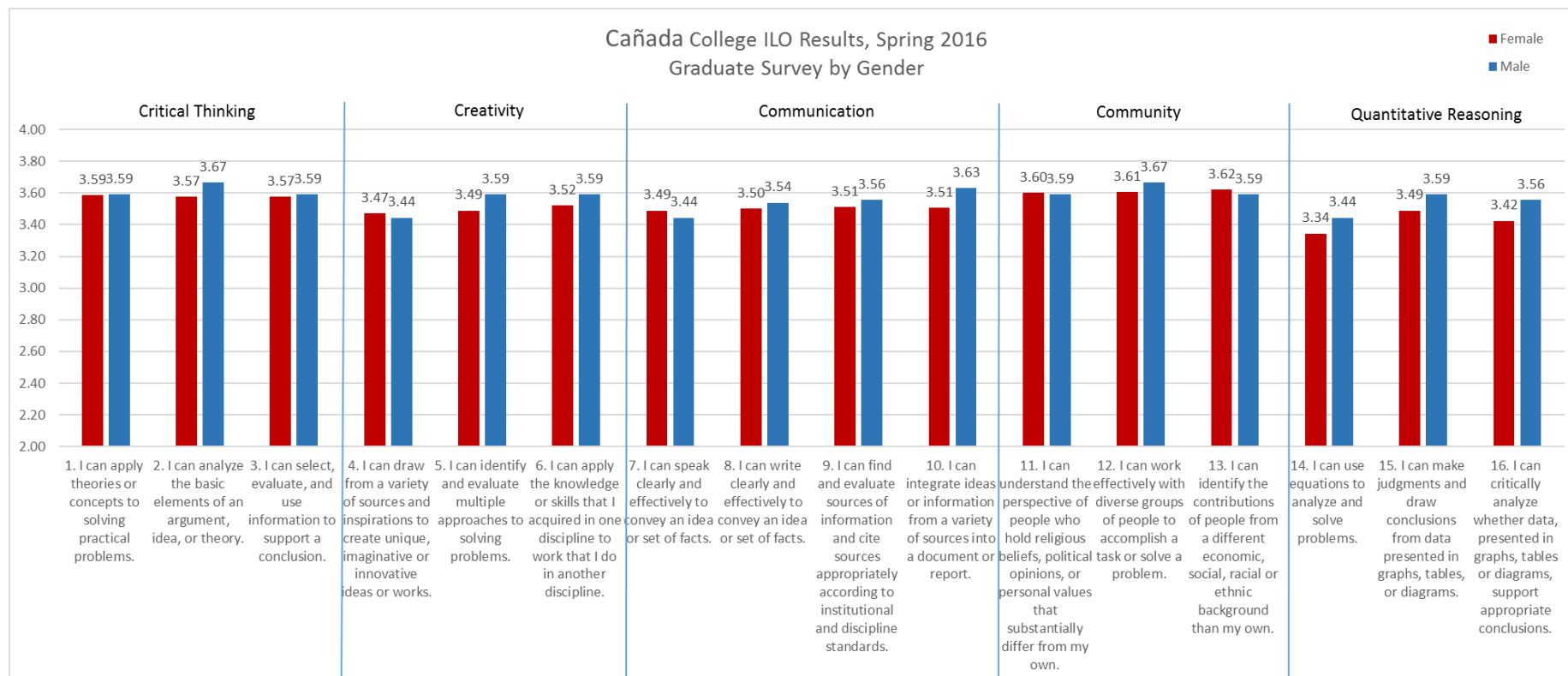
DISAGGREGAT DATA

ILO RESULTS, SPRING 2016

TOTAL (N=124)



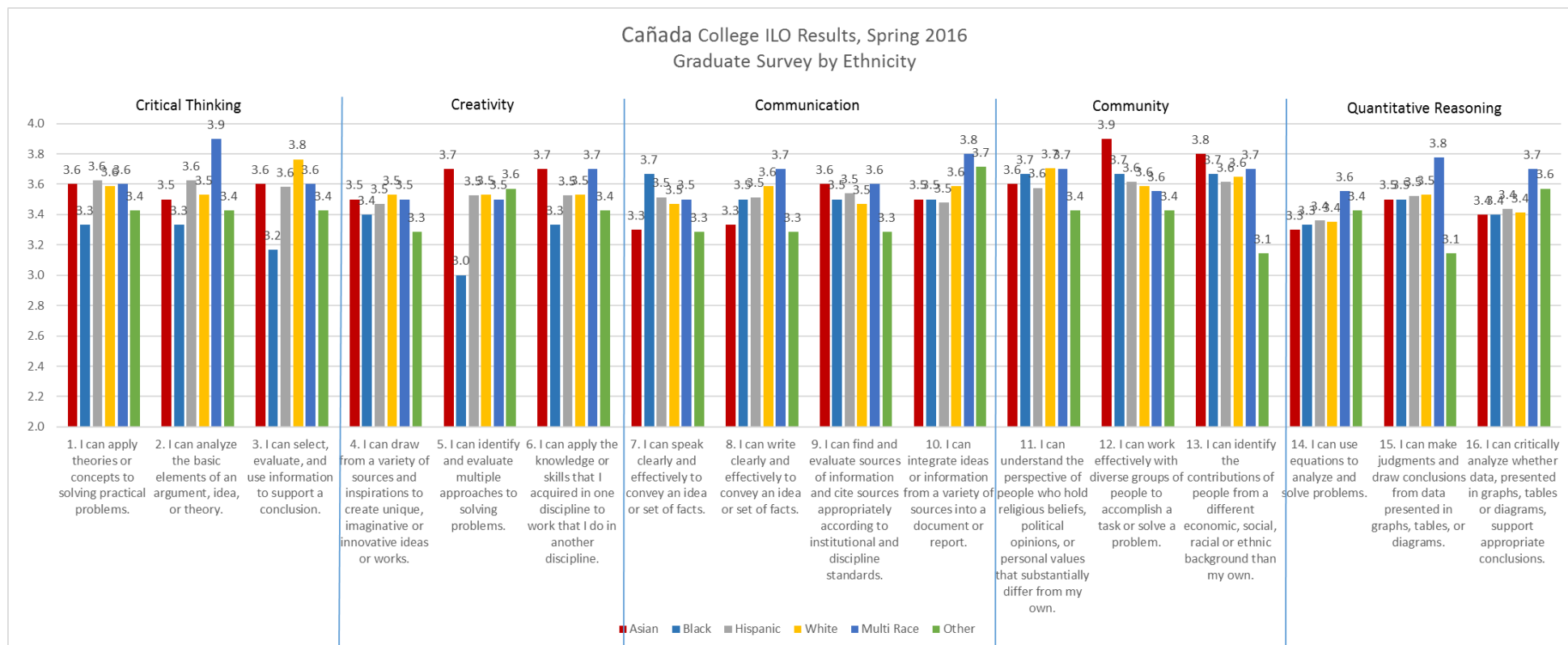
GENDER



	Female	Male	Total
Survey	94 (74%)	27 (26%)	124 (100%)
College	60%	40%	11,374 (Academic Year)

No statistical significant.

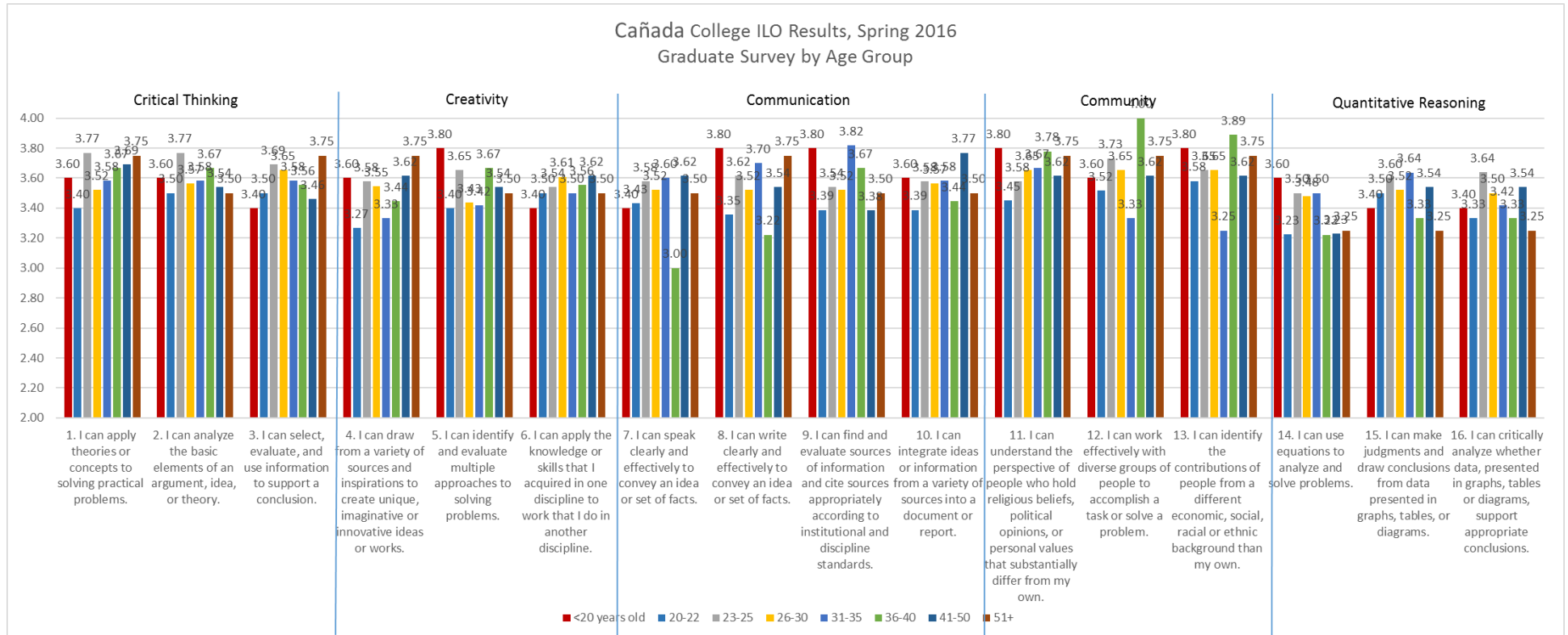
ETHNICITY



	Asian	Black	Hispanic	White	Multi-Race	Other	Total
Survey	10 (8%)	6 (4%)	72 (59%)	17 (14%)	10 (8%)	7 (6%)	124 (100%)
College	14%	3%	40%	24%	18%		11,374 (Academic Year)

AGE GROUP

<20 years old=5; Age 20-22=30; Age 23-25=26; Age 26-30=23; Age 31-35=12; Age 41-50=13; Age 51-60=4; Total=124



My Ethnicity is:		N			Mean		
		1 Female	2 Male	Total	1 Female	2 Male	Total
1. I can apply theories or concepts to solving practical problems.	1 Asian	4	6	10	3.50	3.67	3.60
	2 Black	6		6	3.33		3.33
	3 Hispanic	58	14	72	3.62	3.64	3.63
	4 White	13	4	17	3.54	3.75	3.59
	5 Multi Race	7	2	9	3.57	3.50	3.56
	6 Other	6	1	7	3.67	2.00	3.43
	Total	94	27	121	3.59	3.59	3.59
2. I can analyze the basic elements of an argument, idea, or theory.	1 Asian	4	6	10	3.50	3.67	3.60
	2 Black	6		6	3.17		3.17
	3 Hispanic	58	14	72	3.60	3.50	3.58
	4 White	13	4	17	3.69	4.00	3.76
	5 Multi Race	7	2	9	3.57	3.50	3.56
	6 Other	6	1	7	3.50	3.00	3.43
	Total	94	27	121	3.57	3.59	3.58
3. I can select, evaluate, and use information to support a conclusion.	1 Asian	4	6	10	3.25	3.67	3.50
	2 Black	6		6	3.33		3.33
	3 Hispanic	58	14	72	3.64	3.57	3.63
	4 White	13	4	17	3.38	4.00	3.53
	5 Multi Race	7	2	9	3.86	4.00	3.89
	6 Other	6	1	7	3.50	3.00	3.43
	Total	94	27	121	3.57	3.67	3.60

My Ethnicity is:		N			Mean		
		1 Female	2 Male	Total	1 Female	2 Male	Total
4. I can draw from a variety of sources and inspirations to create unique, imaginative or innovative ideas or works.	1 Asian	4	6	10	3.50	3.50	3.50
	2 Black	5		5	3.40		3.40
	3 Hispanic	58	14	72	3.50	3.36	3.47
	4 White	13	4	17	3.46	3.75	3.53
	5 Multi Race	7	2	9	3.43	3.50	3.44
	6 Other	6	1	7	3.33	3.00	3.29
	Total	93	27	120	3.47	3.44	3.47
5. I can identify and evaluate multiple approaches to solving problems.	1 Asian	4	6	10	3.50	3.83	3.70
	2 Black	6		6	3.00		3.00
	3 Hispanic	58	14	72	3.52	3.57	3.53
	4 White	13	4	17	3.46	3.75	3.53
	5 Multi Race	7	2	9	3.43	3.50	3.44
	6 Other	6	1	7	3.83	2.00	3.57
	Total	94	27	121	3.49	3.59	3.51
6. I can apply the knowledge or skills that I acquired in one discipline to work that I do in another discipline.	1 Asian	4	6	10	3.75	3.67	3.70
	2 Black	6		6	3.33		3.33
	3 Hispanic	58	14	72	3.53	3.50	3.53
	4 White	13	4	17	3.46	3.75	3.53
	5 Multi Race	7	2	9	3.57	4.00	3.67
	6 Other	6	1	7	3.50	3.00	3.43
	Total	94	27	121	3.52	3.59	3.54

My Ethnicity is:		N			Mean		
		1 Female	2 Male	Total	1 Female	2 Male	Total
7. I can speak clearly and effectively to convey an idea or set of facts.	1 Asian	4	6	10	3.50	3.17	3.30
	2 Black	6		6	3.67		3.67
	3 Hispanic	56	14	70	3.52	3.50	3.51
	4 White	13	4	17	3.46	3.50	3.47
	5 Multi Race	7	2	9	3.29	4.00	3.44
	6 Other	6	1	7	3.33	3.00	3.29
	Total	92	27	119	3.49	3.44	3.48
8. I can write clearly and effectively to convey an idea or set of facts.	1 Asian	4	5	9	3.50	3.20	3.33
	2 Black	6		6	3.50		3.50
	3 Hispanic	58	14	72	3.52	3.50	3.51
	4 White	13	4	17	3.46	4.00	3.59
	5 Multi Race	7	2	9	3.57	4.00	3.67
	6 Other	6	1	7	3.33	3.00	3.29
	Total	94	26	120	3.50	3.54	3.51
9. I can find and evaluate sources of information and cite sources appropriately according to institutional and discipline standards.	1 Asian	4	6	10	3.25	3.83	3.60
	2 Black	6		6	3.50		3.50
	3 Hispanic	58	14	72	3.57	3.43	3.54
	4 White	13	4	17	3.46	3.50	3.47
	5 Multi Race	7	2	9	3.43	4.00	3.56
	6 Other	6	1	7	3.33	3.00	3.29
	Total	94	27	121	3.51	3.56	3.52
10. I can integrate ideas or information from a variety of sources into a document or report.	1 Asian	4	6	10	3.25	3.67	3.50
	2 Black	6		6	3.50		3.50
	3 Hispanic	59	14	73	3.46	3.57	3.48
	4 White	13	4	17	3.54	3.75	3.59
	5 Multi Race	7	2	9	3.71	4.00	3.78
	6 Other	6	1	7	3.83	3.00	3.71
	Total	95	27	122	3.51	3.63	3.53



My Ethnicity is:		N			Mean		
		1 Female	2 Male	Total	1 Female	2 Male	Total
11. I can understand the perspective of people who hold religious beliefs, political opinions, or personal values that substantially differ from my own.	1 Asian	4	6	10	3.50	3.67	3.60
	2 Black	6		6	3.67		3.67
	3 Hispanic	59	14	73	3.58	3.57	3.58
	4 White	13	4	17	3.69	3.75	3.71
	5 Multi Race	7	2	9	3.57	4.00	3.67
	6 Other	6	1	7	3.67	2.00	3.43
	Total	95	27	122	3.60	3.59	3.60
12. I can work effectively with diverse groups of people to accomplish a task or solve a problem.	1 Asian	4	6	10	4.00	3.83	3.90
	2 Black	6		6	3.67		3.67
	3 Hispanic	59	14	73	3.63	3.57	3.62
	4 White	13	4	17	3.54	3.75	3.59
	5 Multi Race	6	2	8	3.33	4.00	3.50
	6 Other	6	1	7	3.50	3.00	3.43
	Total	94	27	121	3.61	3.67	3.62
13. I can identify the contributions of people from a different economic, social, racial or ethnic background than my own.	1 Asian	4	6	10	4.00	3.67	3.80
	2 Black	6		6	3.67		3.67
	3 Hispanic	59	14	73	3.63	3.57	3.62
	4 White	13	4	17	3.62	3.75	3.65
	5 Multi Race	7	2	9	3.57	4.00	3.67
	6 Other	6	1	7	3.33	2.00	3.14
	Total	95	27	122	3.62	3.59	3.61

My Ethnicity is:		N			Mean		
		1 Female	2 Male	Total	1 Female	2 Male	Total
14. I can use equations to analyze and solve problems.	1 Asian	4	6	10	3.25	3.33	3.30
	2 Black	6		6	3.33		3.33
	3 Hispanic	58	14	72	3.34	3.43	3.36
	4 White	13	4	17	3.23	3.75	3.35
	5 Multi Race	6	2	8	3.50	3.50	3.50
	6 Other	6	1	7	3.50	3.00	3.43
	Total	93	27	120	3.34	3.44	3.37
15. I can make judgments and draw conclusions from data presented in graphs, tables, or diagrams.	1 Asian	4	6	10	3.50	3.50	3.50
	2 Black	6		6	3.50		3.50
	3 Hispanic	57	14	71	3.49	3.64	3.52
	4 White	13	4	17	3.46	3.75	3.53
	5 Multi Race	6	2	8	3.67	4.00	3.75
	6 Other	6	1	7	3.33	2.00	3.14
	Total	92	27	119	3.49	3.59	3.51
16. I can critically analyze whether data, presented in graphs, tables or diagrams, support appropriate conclusions.	1 Asian	4	6	10	3.50	3.33	3.40
	2 Black	5		5	3.40		3.40
	3 Hispanic	57	14	71	3.40	3.57	3.44
	4 White	13	4	17	3.31	3.75	3.41
	5 Multi Race	7	2	9	3.57	4.00	3.67
	6 Other	6	1	7	3.67	3.00	3.57
	Total	92	27	119	3.42	3.56	3.45

## RECOMMENDATIONS

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1. Continue using these assessment tools in order to determine if the patterns we are observing persist over time.
2. Ask ACES (Academic Committee for Equity and Success) to provide IPC, SSPC, APC with relevant information to facilitate discussion of the significance of these assessment results from an equity and success perspective.