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# Assessing Core Competencies: Results of Critical Thinking Skills Testing

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Graduating Seniors  
2019 Fanuchånan (Fall)

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# Assessing Core Competencies: Results of Critical Thinking Skills Testing

2019 Fanuchánan

## Table of Contents

|  |    |
|--|----|
| Highlights .....   | 1  |
| Critical Thinking Skills Assessment – 10 Semester Trend Charts ..... | 2  |
| Critical Thinking Skills Attributes Descriptions .....               | 4  |
| Qualitative Description of CCTST OVERALL Scores .....                | 5  |
| Insight Assessment Report: Measuring Thinking Worldwide.....         | 6  |
| OVERALL .....  | 7  |
| Analysis.....  | 8  |
| Interpretation.....  | 9  |
| Inference .....  | 10 |
| Evaluation.....  | 11 |
| Explanation.....   | 12 |
| Induction .....  | 13 |
| Deduction .....  | 14 |
| Critical Thinking Skills Test Average Scores by College/School ..... | 15 |
| College of Liberal Arts and Social Sciences (CLASS).....             | 16 |
| College of Natural and Applied Sciences (CNAS).....                  | 17 |
| School of Business and Public Administration (SBPA) .....            | 18 |
| School of Health (SOH) .....   | 19 |
| School of Education (SOE) .....                                      | 19 |
| Critical Thinking Skills Test Average Scores by Major.....           | 20 |
| Communication Studies .....  | 20 |
| English .....  | 21 |
| Fine Arts .....  | 22 |
| History .....  | 23 |
| Pacific Asian Studies Program .....                                  | 24 |
| Political Science .....  | 25 |
| Psychology.....  | 26 |
| Agriculture & Life Sciences.....                                     | 27 |

|                               |    |
|-------------------------------|----|
| Biology.....                  | 28 |
| Computer Science .....        | 29 |
| Accounting.....               | 30 |
| Business Administration ..... | 31 |
| Criminal Justice.....         | 32 |
| Health Science .....          | 33 |
| Elementary Education .....    | 34 |
| Secondary Education .....     | 35 |

### Critical Thinking Skills Test Results Highlights

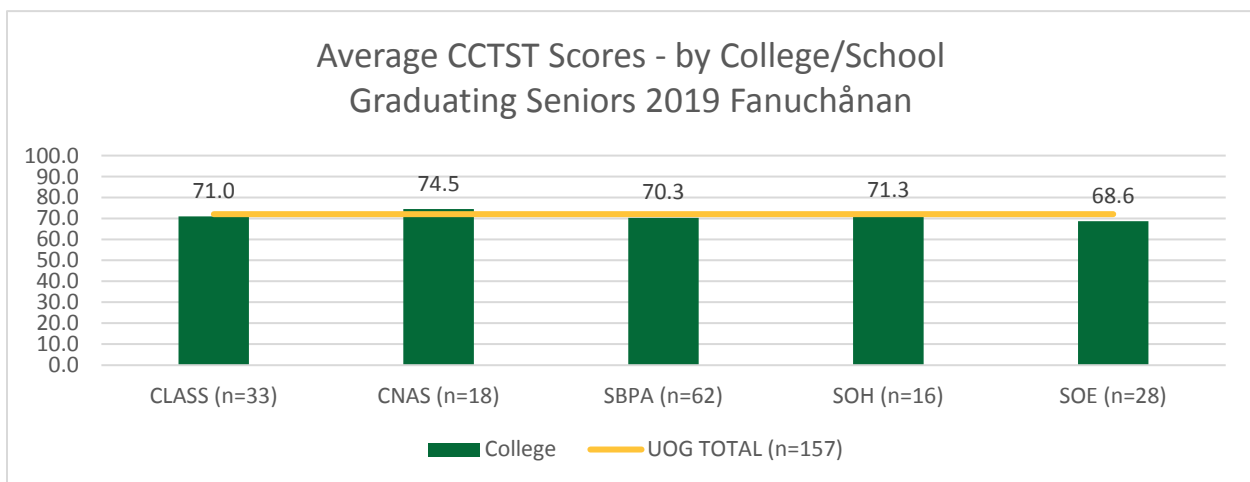
#### 2019 Fanuchånan

The California Critical Thinking Skills Test (CCTST) by Insight Assessment utilized by our University over the past 12 semesters runs on a 100-point scale with 50 being the lowest possible score. This Fanuchånan, the overall average for our 157 graduating seniors is **70.7**. This is a slight decrease from the previous semester’s score of 72.1. Our seniors remain in the “Moderate” category (3 on a 5-point scale). Insight Assessment describes a student in the moderate category as someone with “the potential for skills-related challenges when engaged in reflective problem solving and reflective decision-making associated with learning or employee development.”

Along with the overall score, our seniors’ national average percentile scored slightly dropped to **34** points. A note of interpretation for the percentile scoring: A score that falls in the 40<sup>th</sup> percentile indicates that out of 100 test takers, roughly 60 would earn a higher score.

Seniors continue to score the highest in the *Interpretation and Induction Skills* Category. In contrast, students have scored the lowest in the *Evaluation and Deduction Skills* Category. Descriptions of each skill and attribute tested are shown on page 4.

This report includes more detailed results of scores disaggregated by Major, and by College/School. To assure the privacy of our graduating seniors, we did not include data for majors with less than three students. The table below shows the average scores of students in each college/school with the UOG average trendline at 70.7





### Critical Thinking Skills Assessment - Graduating Seniors Median Scores

#### MEDIAN Scores

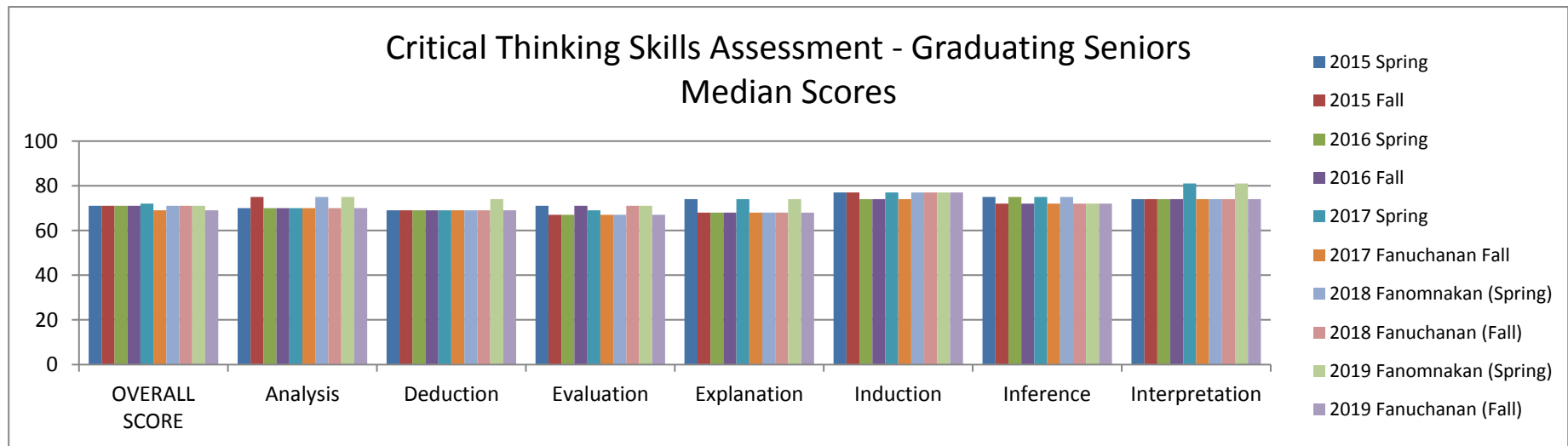
| Skill/Attribute                | 2015   | 2015 | 2016   | 2016 | 2017   | 2017               | 2018                   | 2018                 | 2019                   | 2019                 | Ten-                |
|--------------------------------|--------|------|--------|------|--------|--------------------|------------------------|----------------------|------------------------|----------------------|---------------------|
|                                | Spring | Fall | Spring | Fall | Spring | Fanuchanan<br>Fall | Fanomnakan<br>(Spring) | Fanuchanan<br>(Fall) | Fanomnakan<br>(Spring) | Fanuchanan<br>(Fall) | Semester<br>Average |
| <b>N</b>                       | 251    | 153  | 275    | 172  | 242    | 193                | 241                    | 170                  | 291                    | 157                  | 214                 |
| <b>OVERALL SCORE</b>           | 71     | 71   | 71     | 71   | 72     | 69                 | 71                     | 71                   | 71                     | 69                   | 71                  |
| <a href="#">Analysis</a>       | 70     | 75   | 70     | 70   | 70     | 70                 | 75                     | 70                   | 75                     | 70                   | 72                  |
| <a href="#">Deduction</a>      | 69     | 69   | 69     | 69   | 69     | 69                 | 69                     | 69                   | 74                     | 69                   | 70                  |
| <a href="#">Evaluation</a>     | 71     | 67   | 67     | 71   | 69     | 67                 | 67                     | 71                   | 71                     | 67                   | 69                  |
| <a href="#">Explanation</a>    | 74     | 68   | 68     | 68   | 74     | 68                 | 68                     | 68                   | 74                     | 68                   | 70                  |
| <a href="#">Induction</a>      | 77     | 77   | 74     | 74   | 77     | 74                 | 77                     | 77                   | 77                     | 77                   | 76                  |
| <a href="#">Inference</a>      | 75     | 72   | 75     | 72   | 75     | 72                 | 75                     | 72                   | 72                     | 72                   | 73                  |
| <a href="#">Interpretation</a> | 74     | 74   | 74     | 74   | 81     | 74                 | 74                     | 74                   | 81                     | 74                   | 75                  |

Aggregate sample of  
CCTST Four Year College  
Students, **average**

|                          |    |    |    |    |    |    |    |    |    |    |    |
|--------------------------|----|----|----|----|----|----|----|----|----|----|----|
| <b>percentile score:</b> | 32 | 30 | 31 | 30 | 34 | 29 | 33 | 31 | 36 | 34 | 32 |
|--------------------------|----|----|----|----|----|----|----|----|----|----|----|

National Percentile Comparison Group for OVERALL SCORE: Regional 4 Yr Open-Enrollment Universities

Percentile Score is time sensitive. Percentile Ranking as of November 2018. 42





Critical Thinking Skills Assessment - Graduating Seniors Mean Scores

**MEAN Scores**

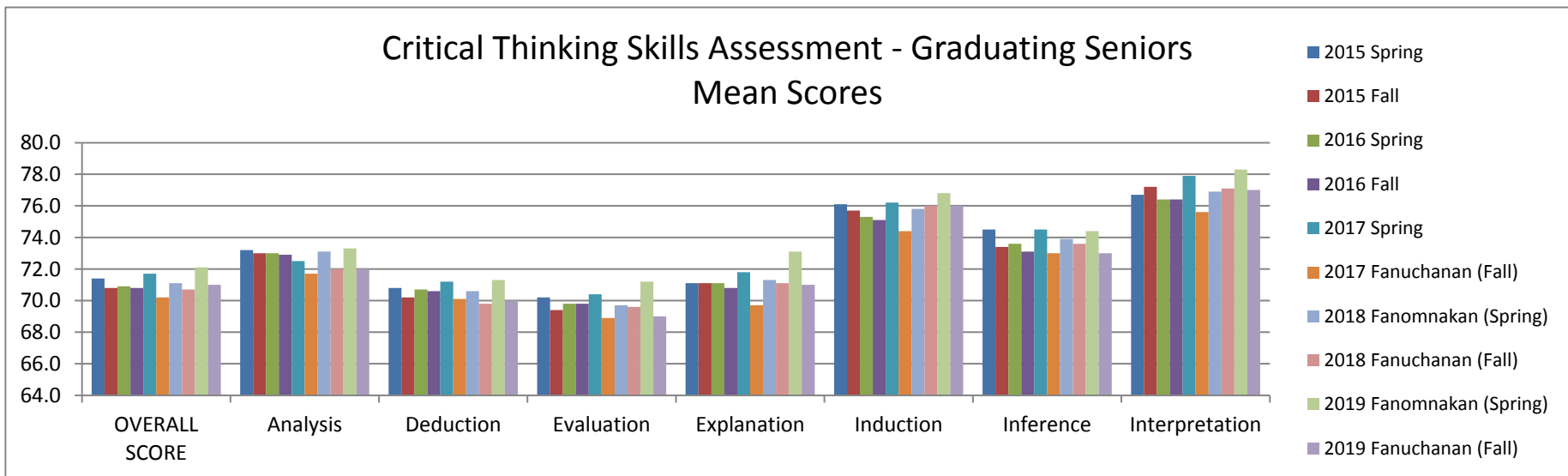
| Skill/Attribute                | 2015   | 2015 | 2016   | 2016 | 2017   | 2017              | 2018                | 2018              | 2019                | 2019              | Ten-             |
|--------------------------------|--------|------|--------|------|--------|-------------------|---------------------|-------------------|---------------------|-------------------|------------------|
|                                | Spring | Fall | Spring | Fall | Spring | Fanuchanan (Fall) | Fanomnakan (Spring) | Fanuchanan (Fall) | Fanomnakan (Spring) | Fanuchanan (Fall) | Semester Average |
| <b>N</b>                       | 251    | 153  | 275    | 172  | 242    | 193               | 241                 | 170               | 291                 | 157               | 214.50           |
| <b>OVERALL SCORE</b>           | 71.4   | 70.8 | 70.9   | 70.8 | 71.7   | 70.2              | 71.1                | 70.7              | 72.1                | 71                | 71.07            |
| <a href="#">Analysis</a>       | 73.2   | 73.0 | 73.0   | 72.9 | 72.5   | 71.7              | 73.1                | 72.0              | 73.3                | 72                | 72.67            |
| <a href="#">Deduction</a>      | 70.8   | 70.2 | 70.7   | 70.6 | 71.2   | 70.1              | 70.6                | 69.8              | 71.3                | 70                | 70.53            |
| <a href="#">Evaluation</a>     | 70.2   | 69.4 | 69.8   | 69.8 | 70.4   | 68.9              | 69.7                | 69.6              | 71.2                | 69                | 69.80            |
| <a href="#">Explanation</a>    | 71.1   | 71.1 | 71.1   | 70.8 | 71.8   | 69.7              | 71.3                | 71.1              | 73.1                | 71                | 71.21            |
| <a href="#">Induction</a>      | 76.1   | 75.7 | 75.3   | 75.1 | 76.2   | 74.4              | 75.8                | 76.0              | 76.8                | 76                | 75.74            |
| <a href="#">Inference</a>      | 74.5   | 73.4 | 73.6   | 73.1 | 74.5   | 73.0              | 73.9                | 73.6              | 74.4                | 73                | 73.70            |
| <a href="#">Interpretation</a> | 76.7   | 77.2 | 76.4   | 76.4 | 77.9   | 75.6              | 76.9                | 77.1              | 78.3                | 77                | 76.95            |

Aggregate sample of CCTST Four Year College Students, **average**

|                          |    |    |    |    |    |    |    |    |    |    |       |
|--------------------------|----|----|----|----|----|----|----|----|----|----|-------|
| <b>percentile score:</b> | 32 | 30 | 31 | 30 | 34 | 29 | 33 | 31 | 36 | 34 | 32.00 |
|--------------------------|----|----|----|----|----|----|----|----|----|----|-------|

National Percentile Comparison Group for OVERALL SCORE: Regional 4 Yr Open-Enrollment Universities

Percentile Score is time sensitive. Percentile Ranking as of November 2018. 42



**OVERALL**

The Reasoning Skills Overall score describes overall strength in using reasoning to form reflective judgments about what to believe or what to do. High Overall scores are attained by test takers who excel in the sustained, focused and integrated application of core thinking skills measured on this test, including analysis, interpretation, inference, evaluation, explanation, induction and deduction. The Overall score predicts the capacity for success in educational or workplace settings which demand reasoned decision making and thoughtful problem solving.

**INDUCTION**

Decision making in contexts of uncertainty relies on inductive reasoning. We use inductive reasoning skills when we draw inferences about what we think is probably true based on analogies, case studies, prior experience, statistical analyses, simulations, hypotheticals, and patterns recognized in familiar objects, events, experiences and behaviors. As long as there is the possibility, however remote, that a highly probable conclusion might be mistaken even though the evidence at hand is unchanged, the reasoning is inductive. Although it does not yield certainty, inductive reasoning can provide a confident basis for solid belief in our conclusions and a reasonable basis for action.

**EXPLANATION**

Explanatory reasoning skills, when exercised prior to making a final decision about what to believe or what to do, enable us to describe the evidence, reasons, methods, assumptions, standards or rationale for those decisions, opinions, beliefs and conclusions. Strong explanatory skills enable people to discover, to test and to articulate the reasons for beliefs, events, actions and decisions.

**INTERPRETATION**

Interpretative skills are used to determine the precise meaning and significance of a message or signal, whether it is a gesture, sign, set of data, written or spoken words, diagram, icon, chart or graph. Correct interpretation depends on understanding the message in its context and in terms of who sent it, and for what purpose. Interpretation includes clarifying what something or someone means, grouping or categorizing information, and determining the significance of a message.

**INFERENCE**

Inference skills enable us to draw conclusions from reasons and evidence. We use inference when we offer thoughtful suggestions and hypotheses. Inference skills indicate the necessary or the very probable consequences of a given set of facts and conditions. Conclusions, hypotheses, recommendations or decisions that are based on faulty analyses, misinformation, bad data or biased evaluations can turn out to be mistaken, even if they have been reached using excellent inference

**EVALUATION**

Evaluative reasoning skills enable us to assess the credibility of sources of information and the claims they make. And, we use these skills to determine the strength or weakness of arguments. Applying evaluation skills we can judge the quality of analyses, interpretations, explanations, inferences, options, opinions, beliefs, ideas, proposals, and decisions. Strong explanation skills can support high quality evaluation by providing the evidence, reasons, methods, criteria, or assumptions behind the claims made and the conclusions reached.

**ANALYSIS**

Analytical reasoning skills enable people to identify assumptions, reasons and claims, and to examine how they interact in the formation of arguments. We use analysis to gather information from charts, graphs, diagrams, spoken language and documents. People with strong analytical skills attend to patterns and to details. They identify the elements of a situation and determine how those parts interact. Strong interpretation skills can support high quality analysis by providing insights into the significance of what a person is saying or what something means.

**DEDUCTION**

Decision making in precisely defined contexts where rules, operating conditions, core beliefs, values, policies, principles, procedures and terminology completely determine the outcome depends on strong deductive reasoning skills. Deductive reasoning moves with exacting precision from the assumed truth of a set of beliefs to a conclusion which cannot be false if those beliefs are true. Deductive validity is rigorously logical and clear-cut. Deductive validity leaves no room for uncertainty, unless one alters the meanings of words or the grammar of the language.

**CCTST OVERALL Scores** can be interpreted as to their relative strength using qualitative descriptors. This is useful for studying both individuals and groups.

|  |
|--|
| <b>Superior:</b> This result indicates critical thinking skill that is superior to the vast majority of test takers. Skills at the superior level are consistent with the potential for more advanced learning and leadership. |
| <b>Strong:</b> The result is consistent with the potential for academic success and career development.  |
| <b>Moderate:</b> This result indicates the potential for skills-related challenges when engaged in reflective problem solving and reflective decision-making associated with learning or employee development.                 |
| <b>Weak:</b> This result is predictive of difficulties with educational and employment related demands for reflective problem solving and reflective decision making.  |
| <b>Not Manifested:</b> This result is consistent with possible insufficient test taker effort, cognitive fatigue, or possible reading or language comprehension issues.  |

Table 1. Qualitative descriptors of the strength of CCTST OVERALL Scores

Table 2 displays the score ranges that correspond to the qualitative descriptions in Table 1. A score of 86 and higher for CCTST OVERALL indicates a superior score. This score is currently earned by approximately 15% of the undergraduate national sample (2018). Scores of 69 and lower display weak overall skill or no manifestation of critical thinking skills, and have been associated with poor performance educationally, in the workplace, and on professional licensure examination.


|   |   |              |                 |               |                     |
|---|---|--------------|-----------------|---------------|---------------------|
|  | <b>Qualitative Description of CCTST OVERALL Score</b> |              |                 |               |                     |
|   | <b>Not Manifested</b>                                 | <b>Weak</b>  | <b>Moderate</b> | <b>Strong</b> | <b>Superior</b>     |
| <b>CCTST OVERALL Score<br/>100-point versions</b>                                   | <b>50-62</b>  | <b>63-69</b> | <b>70-78</b>    | <b>79-85</b>  | <b>86 or higher</b> |

Table 2. Qualitative Description of the OVERALL Score

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 Assignment: 18 - 2019 FALL SR and FR CCTST

California Critical Thinking Skills Test (CCTST). The CCTST measures the reasoning skills human beings use in the process of reflectively deciding what to believe or what to do.

| Skill/Attribute Name | N   | Mean | Median | Standard Deviation | SE Mean |
|----------------------|-----|------|--------|--------------------|---------|
| OVERALL              | 157 | 70.7 | 69     | 5.8                | 0.5     |
| Analysis             | 157 | 71.8 | 70     | 7.2                | 0.6     |
| Interpretation       | 157 | 76.7 | 74     | 8.4                | 0.7     |
| Inference            | 157 | 73.4 | 72     | 6.2                | 0.5     |
| Evaluation           | 157 | 69.4 | 67     | 7.8                | 0.6     |
| Explanation          | 157 | 70.8 | 68     | 9.3                | 0.7     |
| Induction            | 157 | 75.6 | 77     | 6.1                | 0.5     |
| Deduction            | 157 | 70.0 | 69     | 6.5                | 0.5     |

| Skill/Attribute Name | Minimum | Maximum | Quartile 1 | Quartile 3 |
|----------------------|---------|---------|------------|------------|
| OVERALL              | 58      | 94      | 66         | 73         |
| Analysis             | 55      | 90      | 65         | 75         |
| Interpretation       | 55      | 100     | 68         | 81         |
| Inference            | 58      | 92      | 69         | 78         |
| Evaluation           | 55      | 96      | 63         | 75         |
| Explanation          | 55      | 100     | 61         | 74         |
| Induction            | 58      | 95      | 71         | 79         |
| Deduction            | 56      | 95      | 66         | 71         |

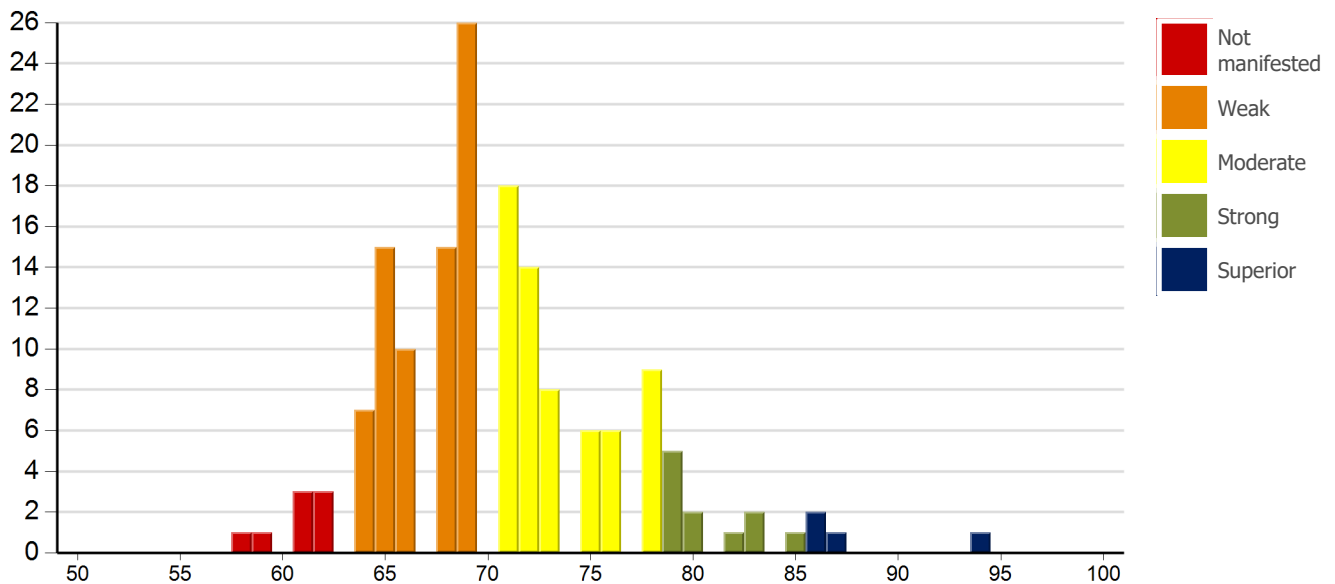
Based on the distribution of the overall score percentiles for the test takers in this group, as compared to an aggregate sample of CCTST Four Year College Students, the average percentile score of this group of test takers is 34.

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**Descriptive Information: OVERALL**

| N   | Mean | Median | Standard Deviation | SE Mean | Minimum | Maximum | Quartile 1 | Quartile 3 |
|-----|------|--------|--------------------|---------|---------|---------|------------|------------|
| 157 | 70.7 | 69.0   | 5.8                | 0.5     | 58      | 94      | 66.0       | 73.0       |

**OVERALL**



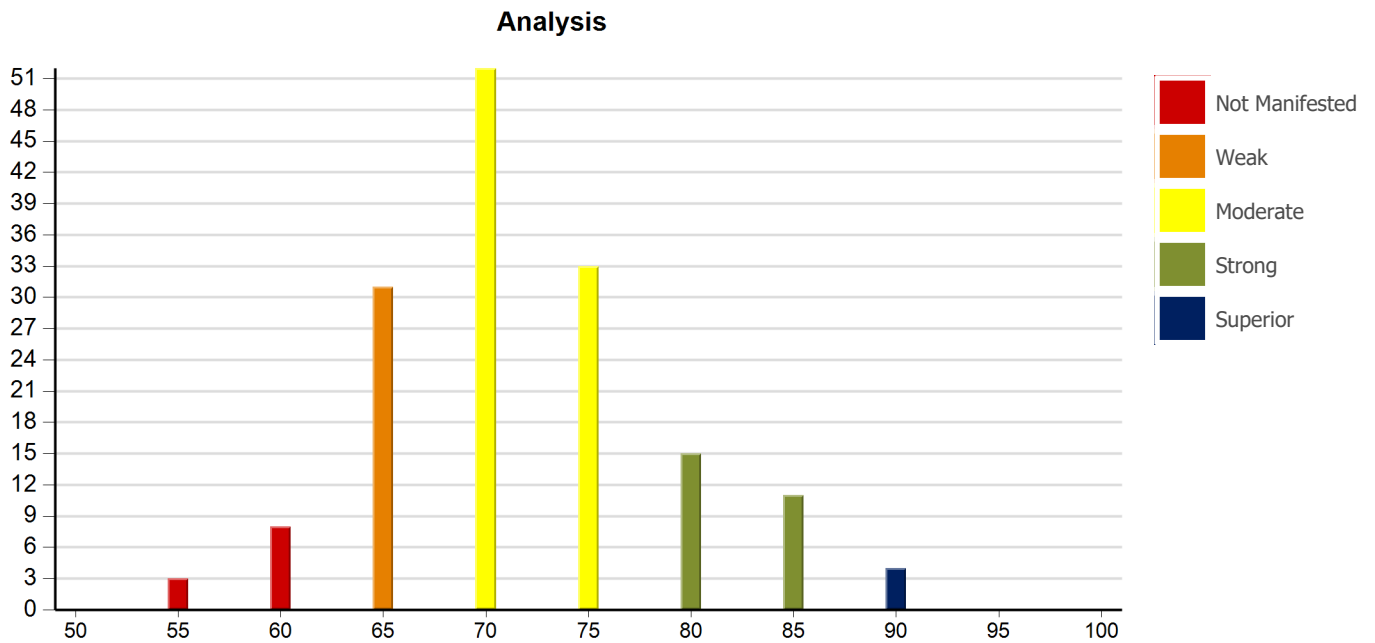
The Overall Score describes overall strength in using reasoning to form reflective judgments about what to believe or what to do. To score well overall, the test taker must excel in the sustained, focused and integrated application of core reasoning skills including analysis, interpretation, inference, evaluation, explanation, induction and deduction. The Overall Score predicts the capacity for success in educational or workplace settings which demand reasoned decision making and thoughtful problem solving.

The descriptive information reported below indicates strengths and also areas for continued improvement. These results are useful for understanding group characteristics, for comparing and contrasting similar groups on specific attributes or skills, and for guiding the development of more targeted educational or training programs.

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**Descriptive Information: Analysis**

| N   | Mean | Median | Standard Deviation | SE Mean | Minimum | Maximum | Quartile 1 | Quartile 3 |
|-----|------|--------|--------------------|---------|---------|---------|------------|------------|
| 157 | 71.8 | 70.0   | 7.2                | 0.6     | 55      | 90      | 65.0       | 75.0       |

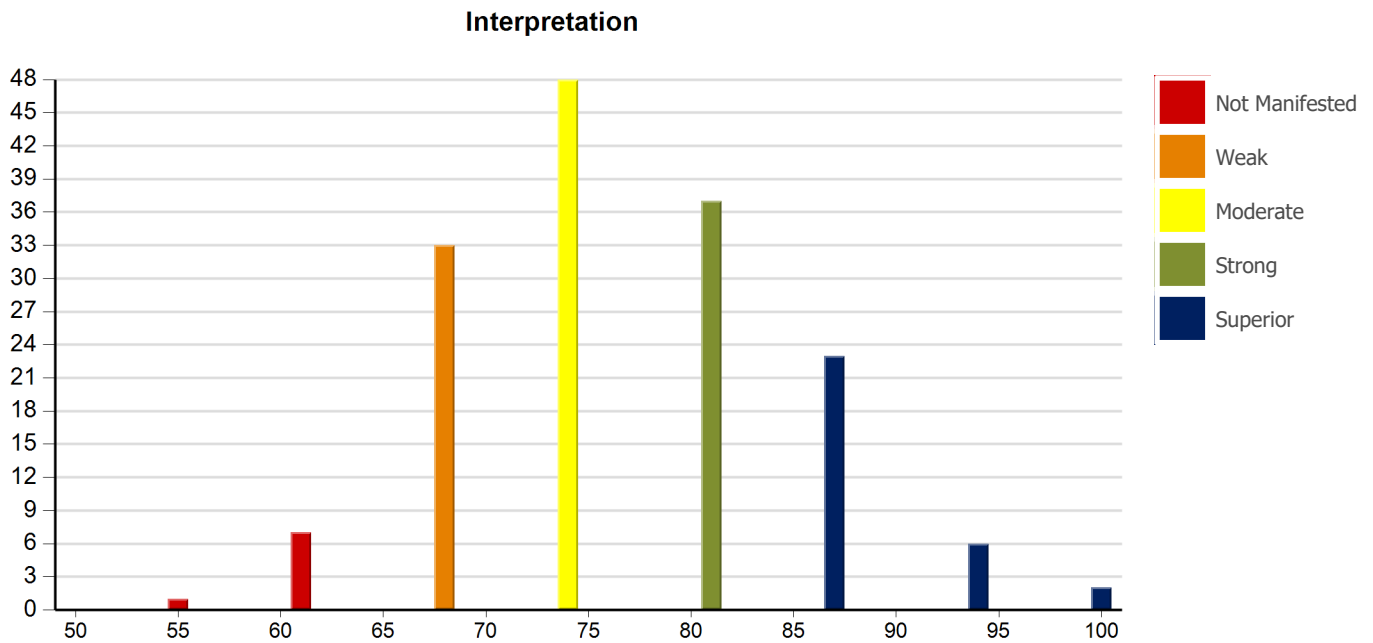


Analytical skills are used to identify assumptions, reasons, themes, and the evidence used in making arguments or offering explanations. Analytical skills enable us to consider all the key elements in any given situation, and to determine how those elements relate to one another. People with strong analytical skills notice important patterns and details. People use analysis to gather the most relevant information from spoken language, documents, signs, charts, graphs, and diagrams.

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 Assignment: 18 - 2019 FALL SR and FR CCTST

**Descriptive Information: Interpretation**

| N   | Mean | Median | Standard Deviation | SE Mean | Minimum | Maximum | Quartile 1 | Quartile 3 |
|-----|------|--------|--------------------|---------|---------|---------|------------|------------|
| 157 | 76.7 | 74.0   | 8.4                | 0.7     | 55      | 100     | 68.0       | 81.0       |

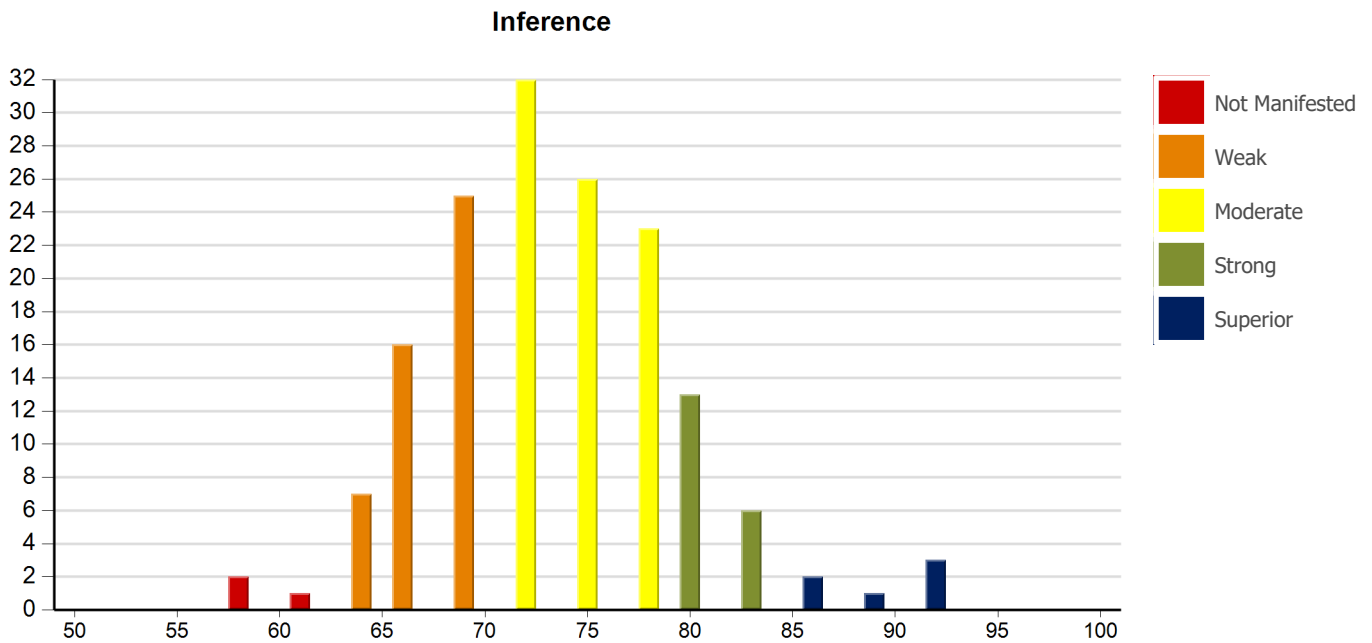


Interpretation is the process of discovering, determining, or assigning meaning. Interpretation skills can be applied to anything, e.g. written messages, charts, diagrams, maps, graphs, memes, and verbal and non-verbal exchanges. People apply their interpretive skills to behaviors, events, and social interactions when deciding what they think something means in a given context.

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**Descriptive Information: Inference**

| N   | Mean | Median | Standard Deviation | SE Mean | Minimum | Maximum | Quartile 1 | Quartile 3 |
|-----|------|--------|--------------------|---------|---------|---------|------------|------------|
| 157 | 73.4 | 72.0   | 6.2                | 0.5     | 58      | 92      | 69.0       | 78.0       |



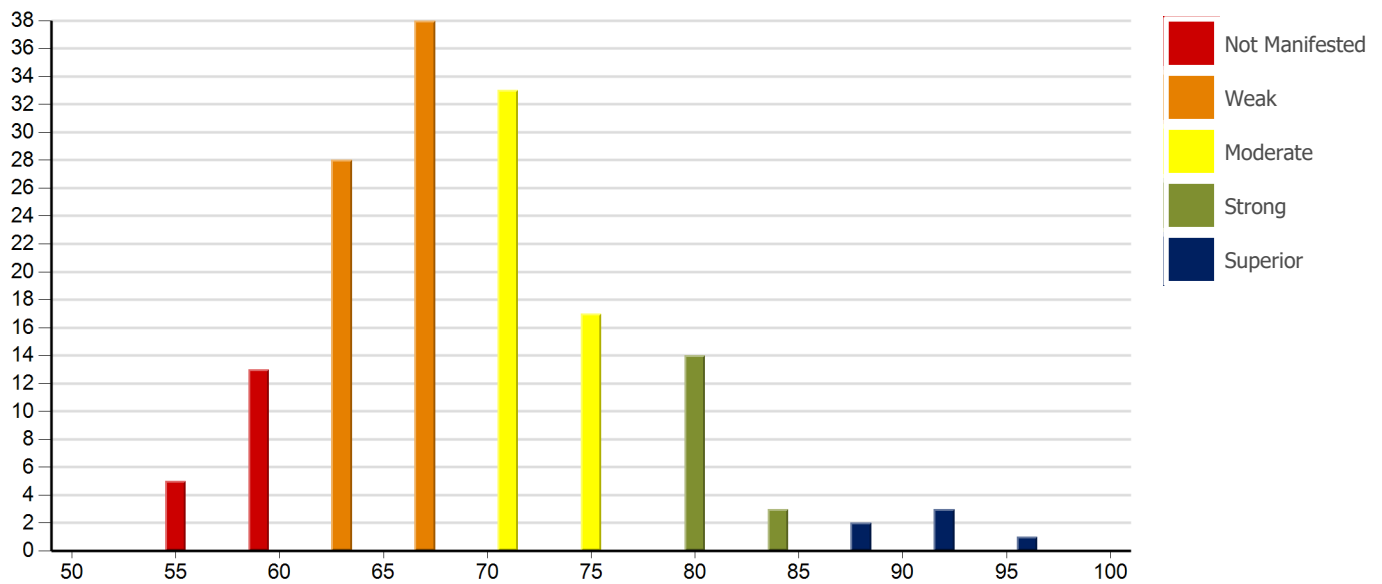
Inference skills enable us to draw conclusions from reasons, evidence, observations, experiences, or our values and beliefs. Using Inference, we can predict the most likely consequences of the options we may be considering. Inference enables us to see the logical consequences of the assumptions we may be making. Sound inferences rely on accurate information. People with strong inference skills draw logical or highly reliable conclusions using all forms of analogical, probabilistic, empirical, and mathematical reasoning.

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**Descriptive Information: Evaluation**

| N   | Mean | Median | Standard Deviation | SE Mean | Minimum | Maximum | Quartile 1 | Quartile 3 |
|-----|------|--------|--------------------|---------|---------|---------|------------|------------|
| 157 | 69.4 | 67.0   | 7.8                | 0.6     | 55      | 96      | 63.0       | 75.0       |

**Evaluation**

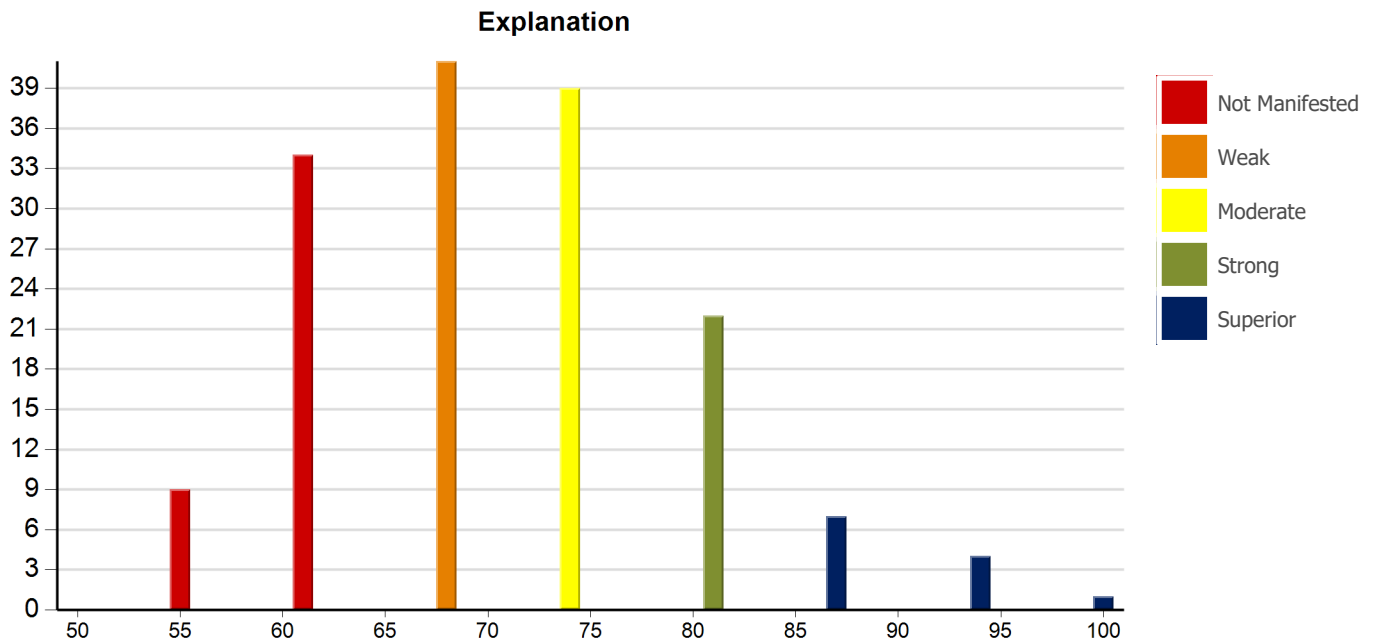


Evaluative skills are used to assess the credibility of the claims people make or post, and to assess the quality of the reasoning people display when they make arguments or give explanations. We can also apply our evaluation skills to assess the quality of many other elements that are important for good thinking, such as analyses, interpretations, explanations, inferences, options, opinions, beliefs, hypotheses, proposals, and decisions. People with strong evaluation skills can judge the quality of arguments and the credibility of speakers and writers.

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**Descriptive Information: Explanation**

| N   | Mean | Median | Standard Deviation | SE Mean | Minimum | Maximum | Quartile 1 | Quartile 3 |
|-----|------|--------|--------------------|---------|---------|---------|------------|------------|
| 157 | 70.8 | 68.0   | 9.3                | 0.7     | 55      | 100     | 61.0       | 74.0       |

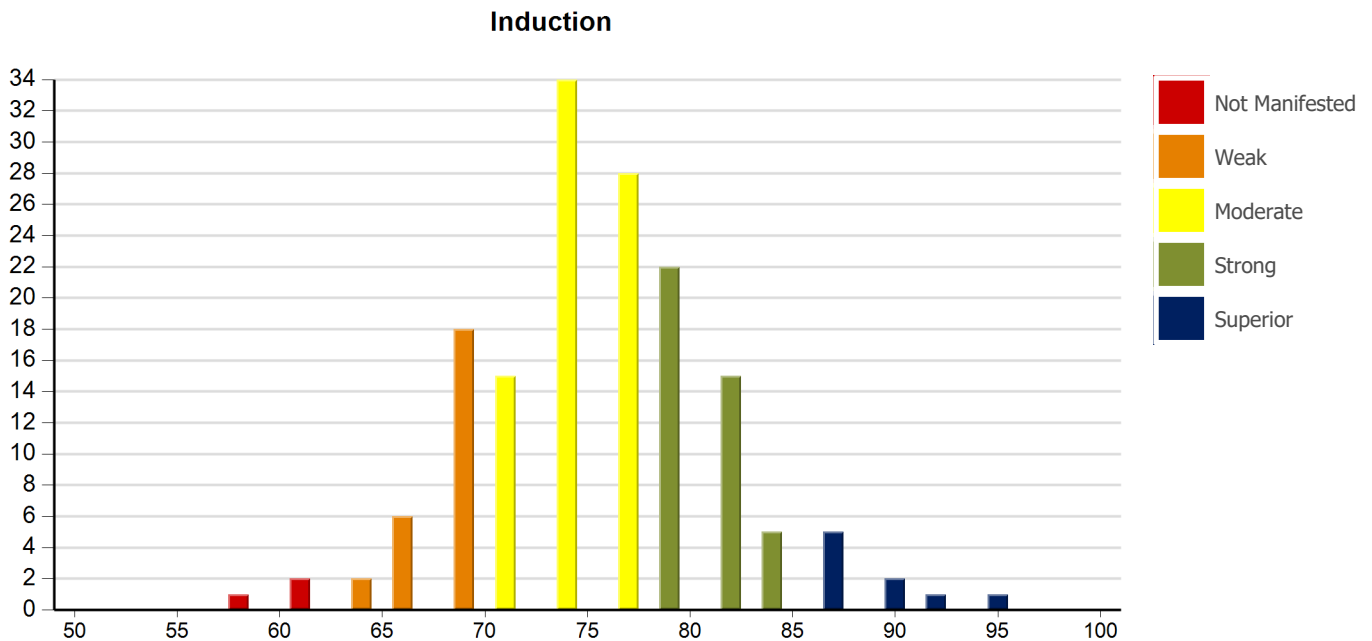


Explanation is the process of justifying what we have decided to do or what we have decided to believe. People with strong explanation skills provide the evidence, methods, and considerations they actually relied on when making their judgment. Explanations can include our assumptions, reasons, values, and beliefs. Strong explanations enable others to understand and to evaluate our decisions.

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**Descriptive Information: Induction**

| N   | Mean | Median | Standard Deviation | SE Mean | Minimum | Maximum | Quartile 1 | Quartile 3 |
|-----|------|--------|--------------------|---------|---------|---------|------------|------------|
| 157 | 75.6 | 77.0   | 6.1                | 0.5     | 58      | 95      | 71.0       | 79.0       |



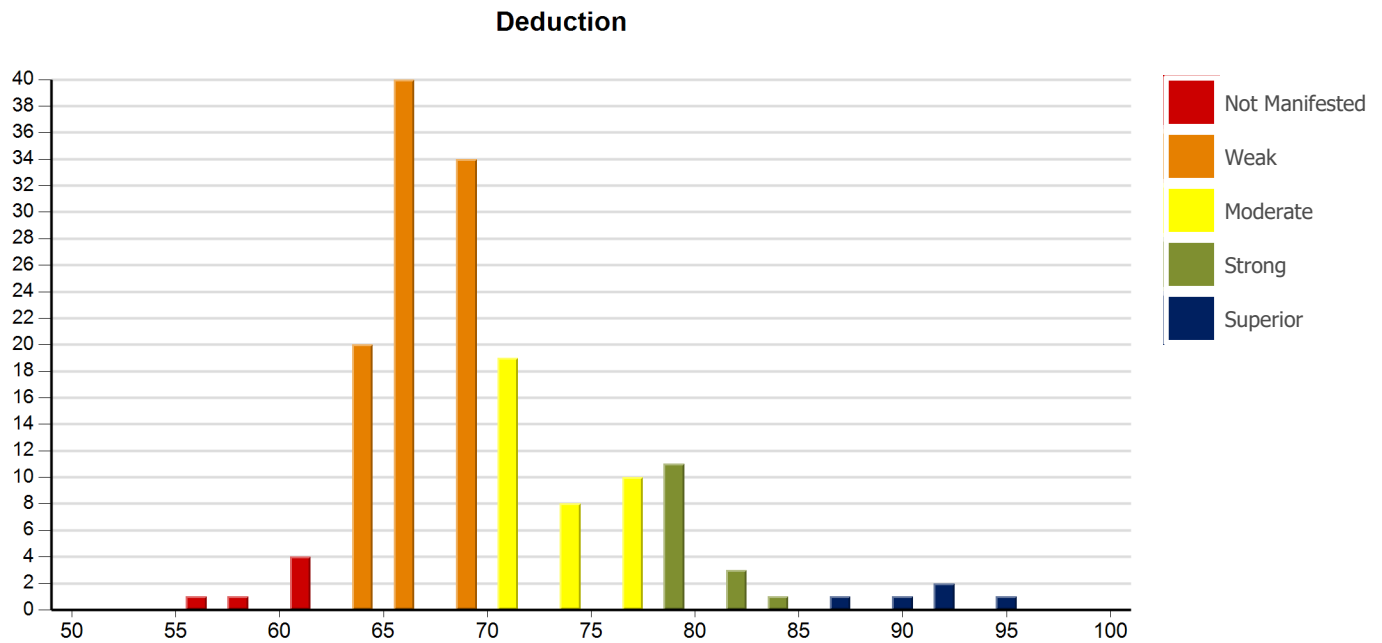
Inductive reasoning relies on estimating likely outcomes. Decision making in contexts of uncertainty relies on inductive reasoning. Inductive decisions can be based on analogies, case studies, prior experience, statistical analyses, simulations, hypotheticals, trusted testimony, and the patterns we may recognize in a set of events, experiences, symptoms or behaviors. Inductive reasoning always leaves open the possibility, however remote, that a highly probable conclusion might be mistaken. Although it does not yield certainty, inductive reasoning can provide a solid basis for confidence in our conclusions and a reasonable basis for action.



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**Descriptive Information: Deduction**

| N   | Mean | Median | Standard Deviation | SE Mean | Minimum | Maximum | Quartile 1 | Quartile 3 |
|-----|------|--------|--------------------|---------|---------|---------|------------|------------|
| 157 | 70.0 | 69.0   | 6.5                | 0.5     | 56      | 95      | 66.0       | 71.0       |

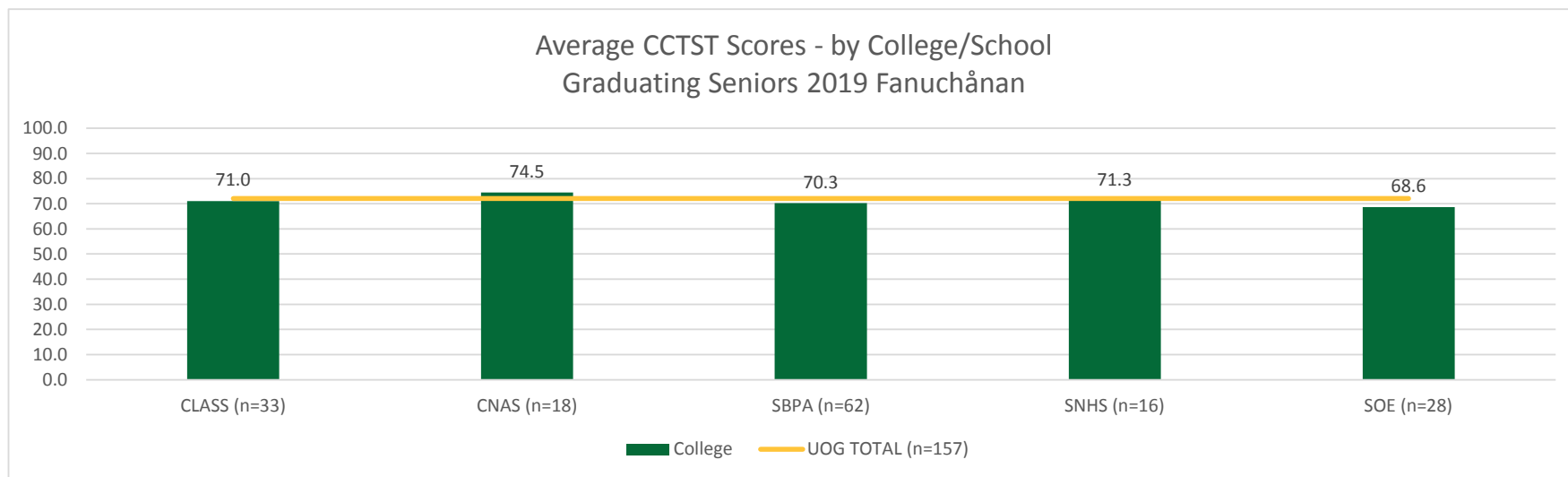


Deductive reasoning is rigorously logical and clear cut. Deductive skills are used whenever we determine the precise logical consequences of a given set of rules, conditions, beliefs, values, policies, principles, procedures, or terminology. Deductive reasoning is deciding what to believe or what to do in precisely defined contexts that rely on strict rules and logic. Deductive validity results in a conclusion which absolutely cannot be false, if the assumptions or premises from which we started all are true. Deductive validity leaves no room for uncertainty. That is, unless we decide to change the very meanings of our words or the grammar of our language.



2019 Fanuchånan California Critical Thinking Skills Test Average Scores by College/School

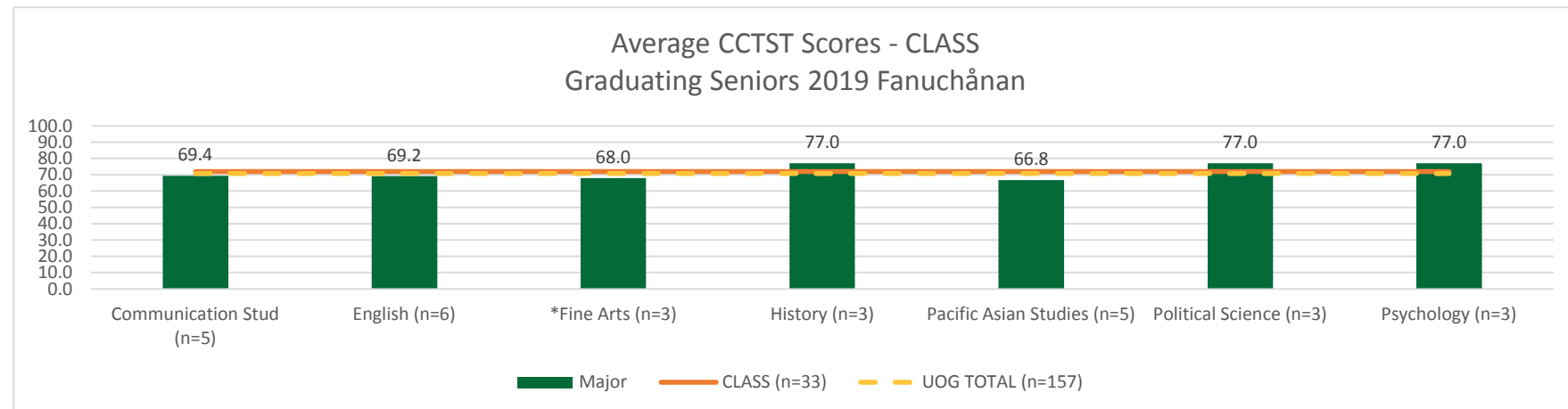
| College/School           | OVERALL Average | OVERALL St Dev | Percentile  | Analysis    | Interpretation | Inference   | Evaluation  | Explanation | Induction   | Deduction   |
|--------------------------|-----------------|----------------|-------------|-------------|----------------|-------------|-------------|-------------|-------------|-------------|
| CLASS (n=33)             | 71.0            | 6.3            | 34.4        | 71.1        | 77.0           | 72.9        | 71.0        | 72.1        | 76.2        | 70.2        |
| CNAS (n=18)              | 74.5            | 6.5            | 49.1        | 76.7        | 80.8           | 77.7        | 71.0        | 72.8        | 77.3        | 75.1        |
| SBPA (n=62)              | 70.3            | 5.3            | 32.5        | 72.3        | 75.3           | 73.8        | 68.2        | 69.8        | 75.5        | 69.3        |
| SNHS (n=16)              | 71.3            | 5.6            | 36.9        | 72.8        | 78.3           | 72.8        | 69.5        | 68.9        | 75.7        | 70.8        |
| SOE (n=28)               | 68.6            | 4.9            | 26.5        | 67.9        | 75.8           | 70.9        | 69.0        | 71.1        | 74.2        | 67.7        |
| <b>UOG TOTAL (n=157)</b> | <b>70.7</b>     | <b>5.8</b>     | <b>34.2</b> | <b>71.8</b> | <b>76.7</b>    | <b>73.4</b> | <b>69.4</b> | <b>70.8</b> | <b>75.6</b> | <b>70.0</b> |





2019 Fanuchånan California Critical Thinking Skills Test Average Scores - CLASS

| Major                       | OVERALL Average | OVERALL St Dev | Percentile | Analysis | Interpretation | Inference | Evaluation | Explanation | Induction | Deduction |
|-----------------------------|-----------------|----------------|------------|----------|----------------|-----------|------------|-------------|-----------|-----------|
| Communication Stud (n=5)    | 69.4            | 4.0            | 27.6       | 72.0     | 78.2           | 73.2      | 65.4       | 66.4        | 73.0      | 69.8      |
| English (n=6)               | 69.2            | 5.1            | 27.7       | 69.2     | 71.0           | 72.0      | 69.7       | 68.8        | 73.2      | 69.8      |
| *Fine Arts (n=3)            | 68.0            | 1.7            | 22.0       | 63.3     | 85.3           | 70.0      | 64.3       | 65.7        | 74.0      | 67.3      |
| History (n=3)               | 77.0            | 3.6            | 64.3       | 73.3     | 85.0           | 77.7      | 78.3       | 78.7        | 84.7      | 73.3      |
| Pacific Asian Studies (n=5) | 66.8            | 3.5            | 18.8       | 69.0     | 70.4           | 68.6      | 68.8       | 70.4        | 72.0      | 67.0      |
| Political Science (n=3)     | 77.0            | 15.1           | 49.3       | 80.0     | 80.7           | 77.7      | 78.0       | 80.7        | 79.3      | 78.3      |
| Psychology (n=3)            | 77.0            | 5.6            | 62.3       | 73.3     | 80.7           | 76.0      | 83.7       | 85.0        | 85.3      | 72.3      |
| CLASS (n=33)                | 71.0            | 6.3            | 34.4       | 71.1     | 77.0           | 72.9      | 71.0       | 72.1        | 76.2      | 70.2      |
| UOG TOTAL (n=157)           | 70.7            | 5.8            | 34.2       | 71.8     | 76.7           | 73.4      | 69.4       | 70.8        | 75.6      | 70.0      |



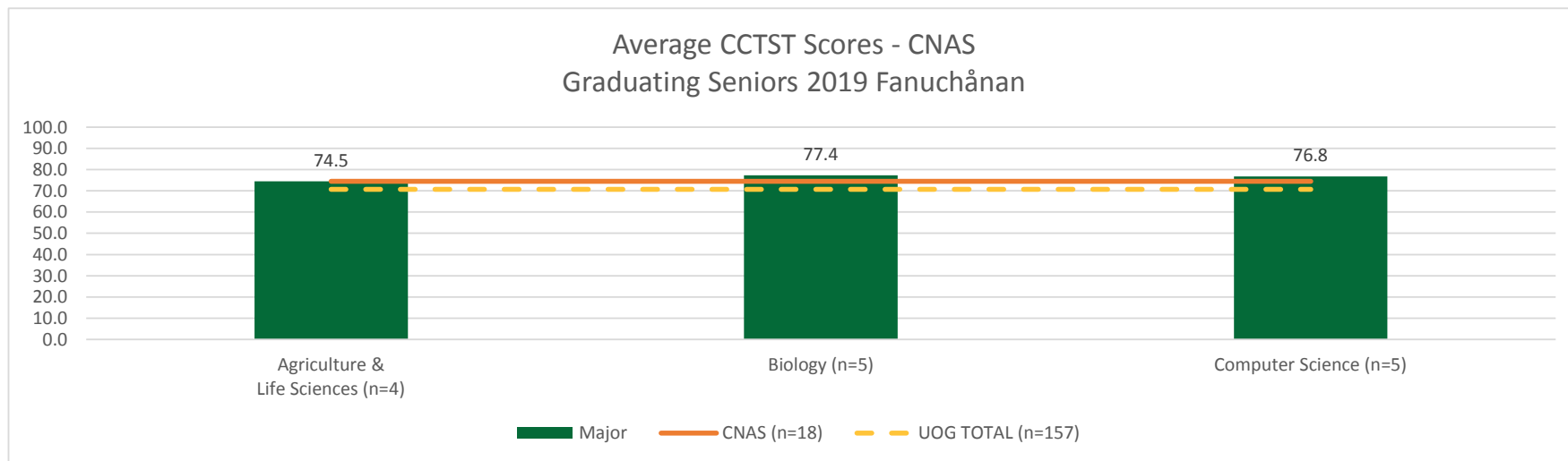
\*Fine Arts encompasses the Fine Arts/Art, Fine Arts/Music, and Fine Arts/Theater Programs

The following majors did not have enough students to report: Anthropology, Philosophy, and Sociology



2019 Fanuchånan California Critical Thinking Skills Test Average Scores - CNAS

| Major                             | OVERALL Average | OVERALL St Dev | Percentile | Analysis | Interpretation | Inference | Evaluation | Explanation | Induction | Deduction |
|-----------------------------------|-----------------|----------------|------------|----------|----------------|-----------|------------|-------------|-----------|-----------|
| Agriculture & Life Sciences (n=4) | 74.5            | 7.8            | 47.8       | 78.8     | 82.5           | 80.5      | 67.0       | 69.5        | 78.5      | 74.0      |
| Biology (n=5)                     | 77.4            | 5.2            | 63.4       | 80.0     | 82.2           | 79.2      | 74.4       | 76.8        | 79.8      | 78.0      |
| Computer Science (n=5)            | 76.8            | 6.6            | 59.2       | 74.0     | 85.8           | 78.6      | 77.2       | 78.2        | 78.6      | 78.2      |
| CNAS (n=18)                       | 74.5            | 6.5            | 49.1       | 76.7     | 80.8           | 77.7      | 71.0       | 72.8        | 77.3      | 75.1      |
| UOG TOTAL (n=157)                 | 70.7            | 5.8            | 34.2       | 71.8     | 76.7           | 73.4      | 69.4       | 70.8        | 75.6      | 70.0      |

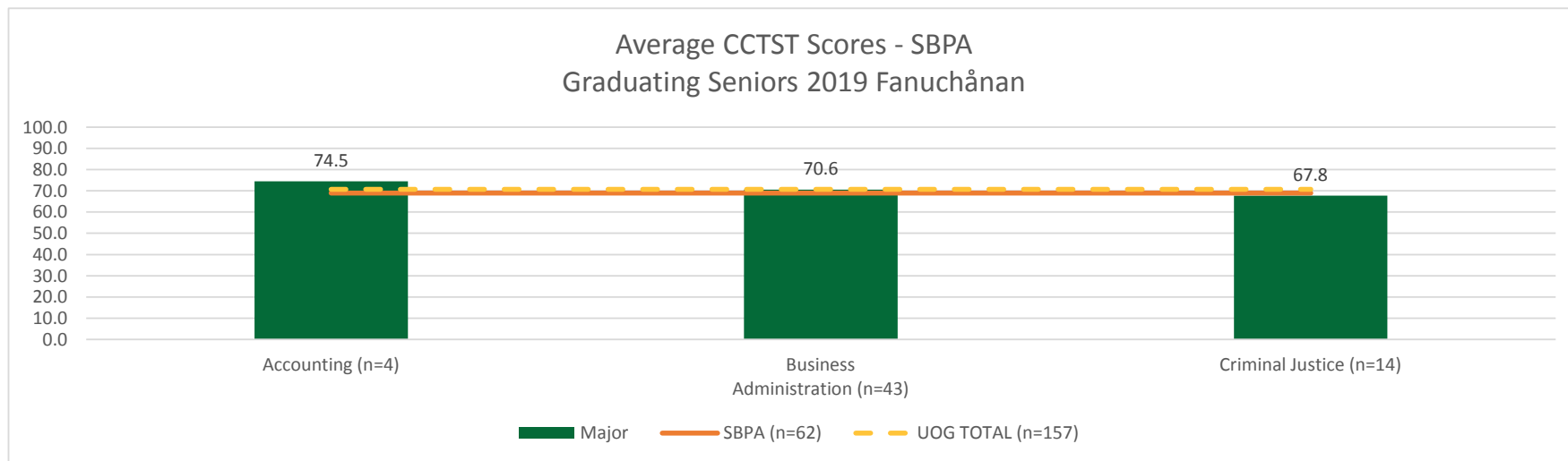


The following majors did not have enough students to report: Consumer & Family Sciences, Mathematics, and Tropical Agriculture-Applied



2019 Fanuchånan California Critical Thinking Skills Test Average Scores - SBPA

| Major                          | OVERALL Average | OVERALL St Dev | Percentile | Analysis | Interpretation | Inference | Evaluation | Explanation | Induction | Deduction |
|--------------------------------|-----------------|----------------|------------|----------|----------------|-----------|------------|-------------|-----------|-----------|
| Accounting (n=4)               | 74.5            | 8.3            | 50.0       | 77.5     | 79.0           | 77.5      | 74.3       | 76.0        | 80.0      | 73.5      |
| Business Administration (n=43) | 70.6            | 5.4            | 34.4       | 72.9     | 75.5           | 74.4      | 68.0       | 69.6        | 75.5      | 69.9      |
| Criminal Justice (n=14)        | 67.8            | 3.5            | 21.2       | 68.6     | 73.9           | 70.6      | 66.8       | 68.7        | 73.9      | 66.1      |
| SBPA (n=62)                    | 70.3            | 5.3            | 32.5       | 72.3     | 75.3           | 73.8      | 68.2       | 69.8        | 75.5      | 69.3      |
| UOG TOTAL (n=157)              | 70.7            | 5.8            | 34.2       | 71.8     | 76.7           | 73.4      | 69.4       | 70.8        | 75.6      | 70.0      |



The Public Administration Program did not have enough majors to report.



### 2019 Fanuchånan California Critical Thinking Skills Test Average Scores - SOH

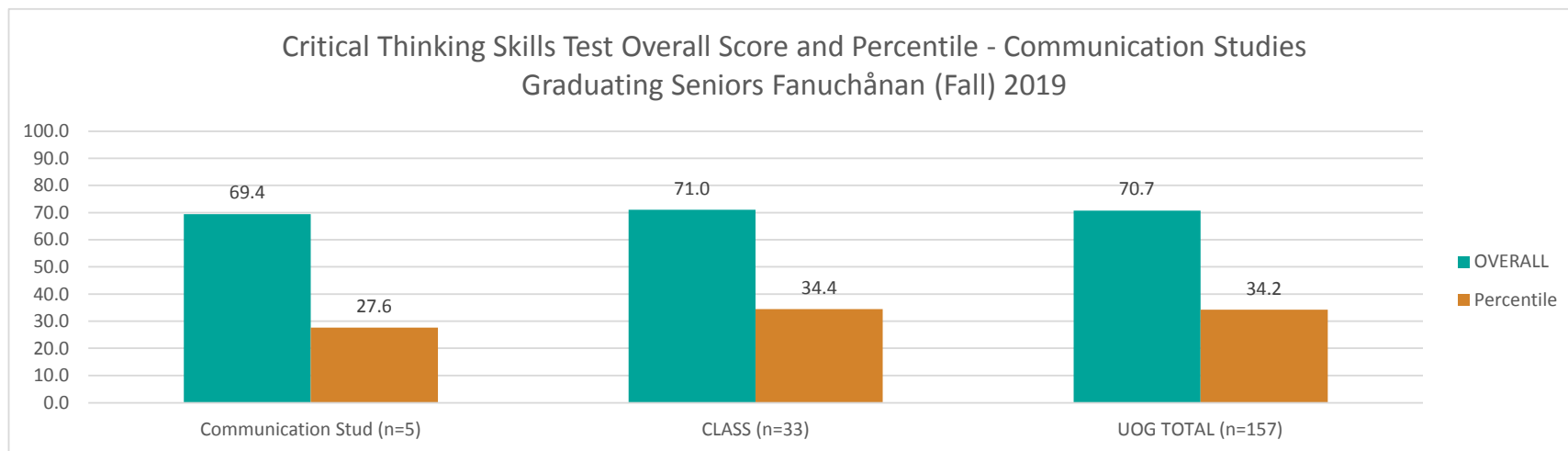
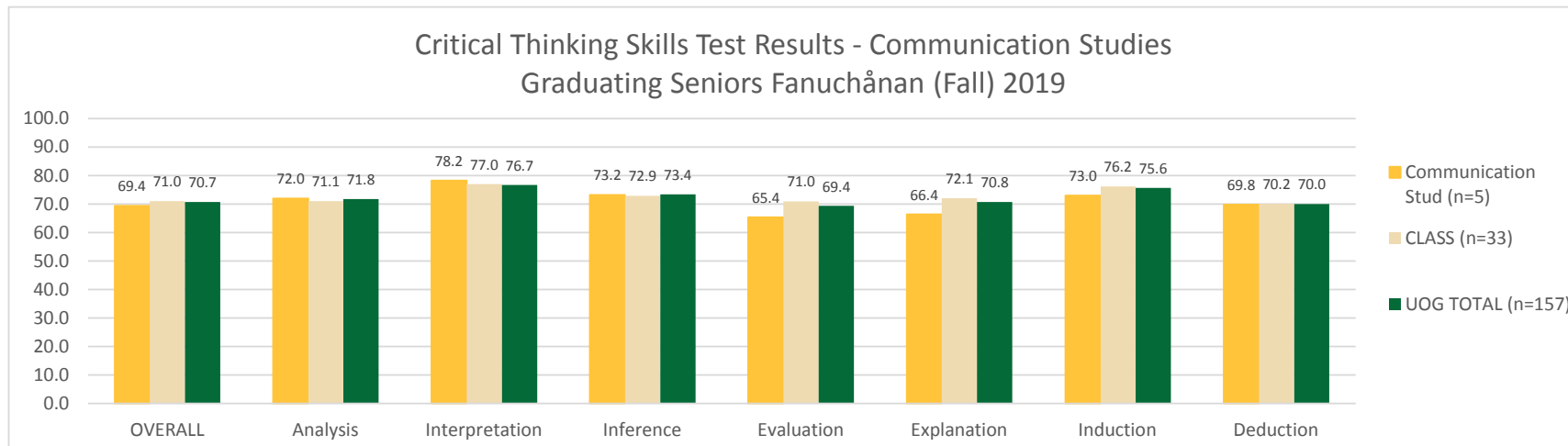
| Major                 | OVERALL Average | OVERALL St Dev | Percentile | Analysis | Interpretation | Inference | Evaluation | Explanation | Induction | Deduction |
|-----------------------|-----------------|----------------|------------|----------|----------------|-----------|------------|-------------|-----------|-----------|
| Health Science (n=16) | 71.3            | 5.6            | 36.9       | 72.8     | 78.3           | 72.8      | 69.5       | 68.9        | 75.7      | 70.8      |
| SOH (n=16)            | 71.3            | 5.6            | 36.9       | 72.8     | 78.3           | 72.8      | 69.5       | 68.9        | 75.7      | 70.8      |
| UOG TOTAL (n=157)     | 70.7            | 5.8            | 34.2       | 71.8     | 76.7           | 73.4      | 69.4       | 70.8        | 75.6      | 70.0      |

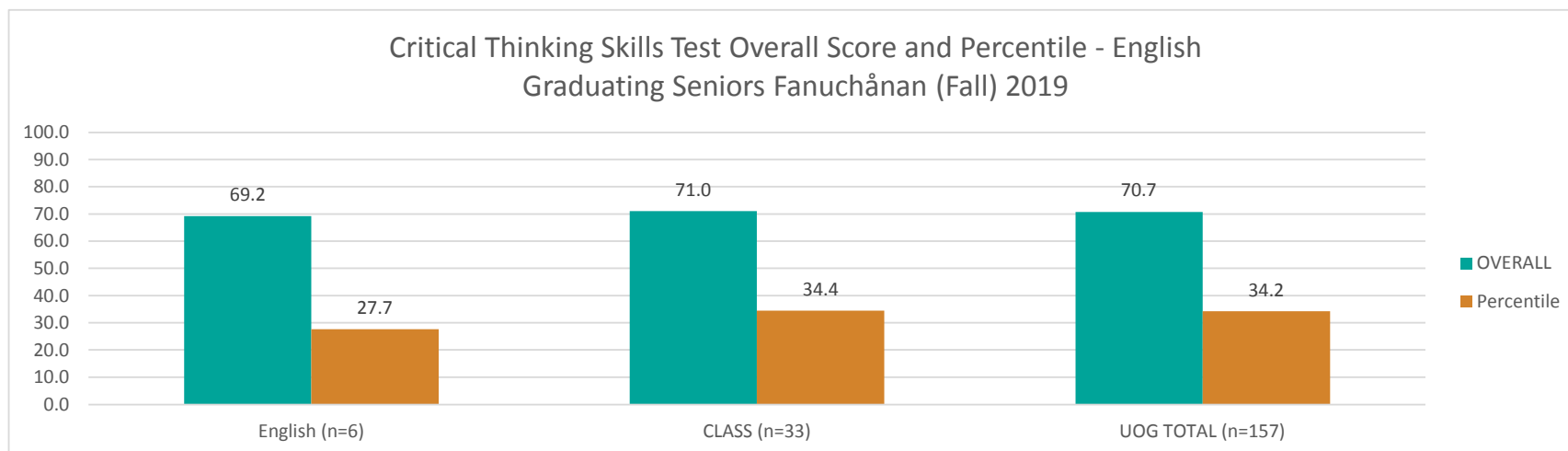
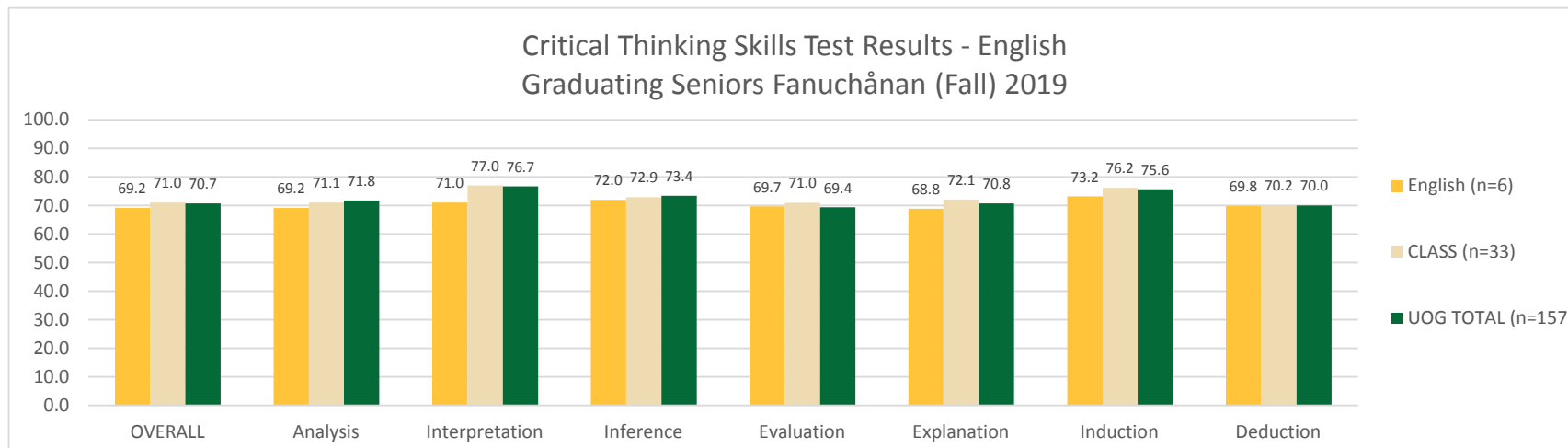
The School of Health does not usually confer graduates in Fall Semesters

### 2019 Fanuchånan California Critical Thinking Skills Test Average Scores - SOE

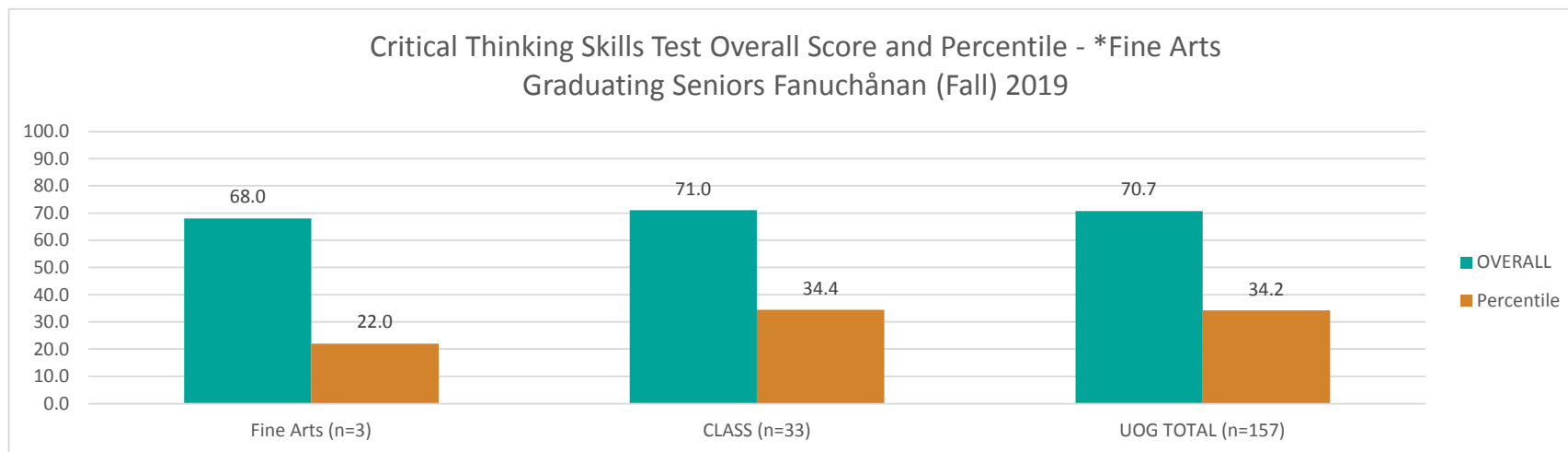
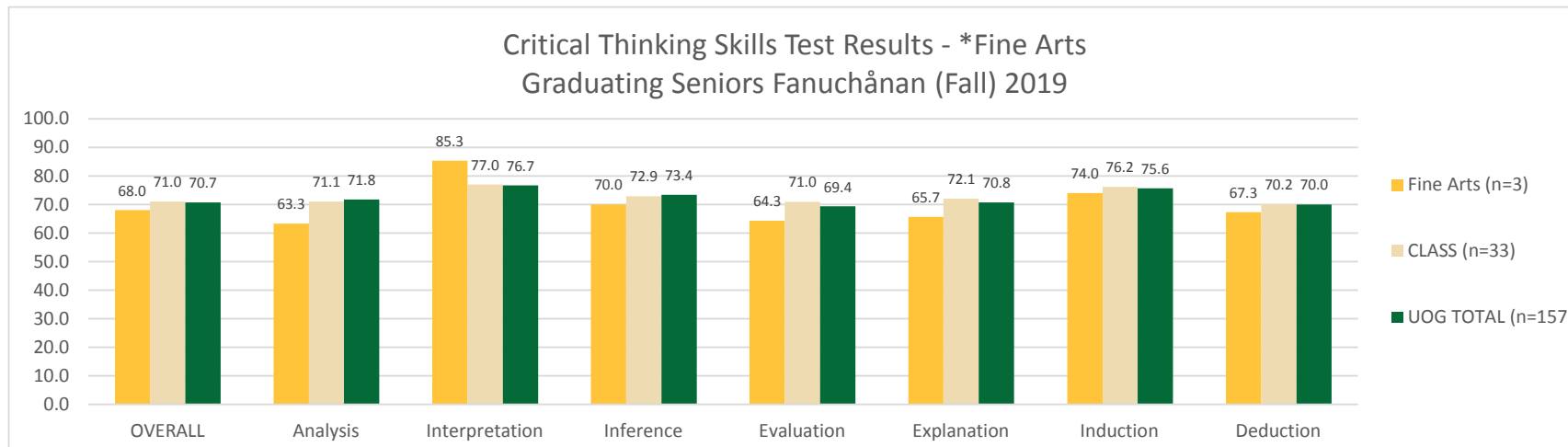
| Major                       | OVERALL Average | OVERALL St Dev | Percentile | Analysis | Interpretation | Inference | Evaluation | Explanation | Induction | Deduction |
|-----------------------------|-----------------|----------------|------------|----------|----------------|-----------|------------|-------------|-----------|-----------|
| Elementary Education (n=19) | 67.5            | 4.3            | 21.3       | 66.8     | 74.5           | 69.8      | 68.3       | 70.4        | 73.3      | 66.5      |
| Secondary Education (n=7)   | 71.4            | 6.3            | 39.6       | 70.0     | 78.9           | 72.7      | 71.3       | 73.3        | 75.6      | 71.3      |
| SOE (n=28)                  | 68.6            | 4.9            | 26.5       | 67.9     | 75.8           | 70.9      | 69.0       | 71.1        | 74.2      | 67.7      |
| UOG TOTAL (n=157)           | 70.7            | 5.8            | 34.2       | 71.8     | 76.7           | 73.4      | 69.4       | 70.8        | 75.6      | 70.0      |

The following majors did not have enough students to report: Early Childhood and Special Education









\*Fine Arts encompasses the Fine Arts/Art, Fine Arts/Music, and Fine Arts/Theater Programs

Source: California Critical Thinking Skills Test Results

