
Assessing Core Competencies: Results of Critical Thinking Skills Testing

2017 Spring Graduating Seniors
from the College of Liberal Arts
and Social Sciences (CLASS)

Office of Institutional Effectiveness
Academic and Student Affairs
University of Guam
Unibetsedat Guahan





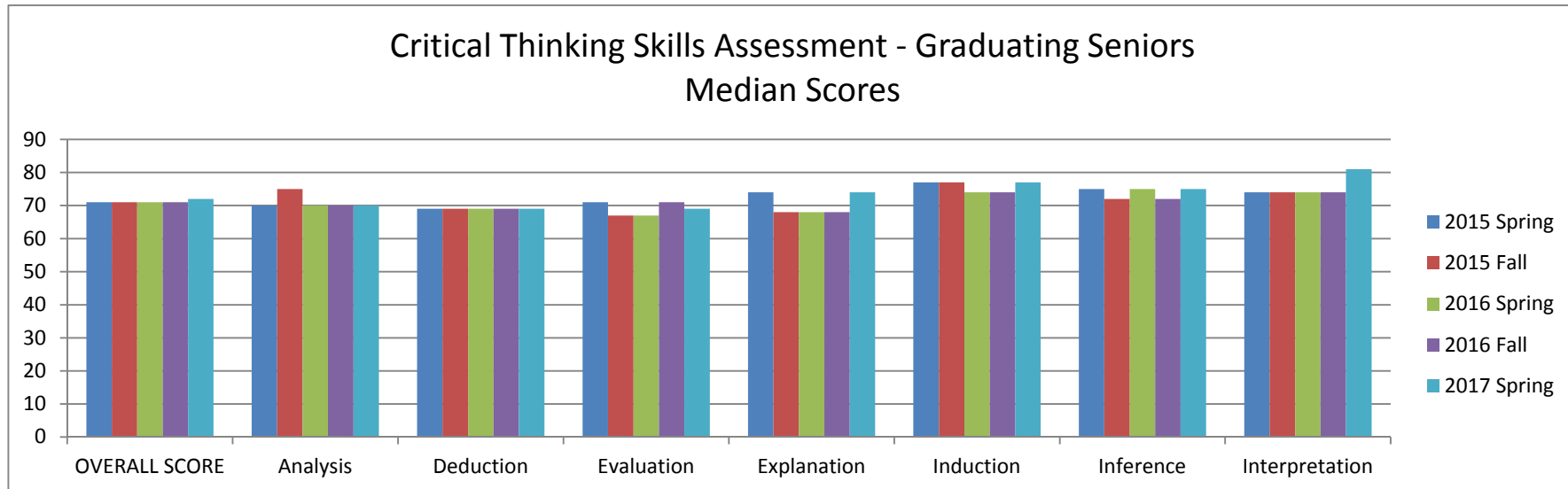
Critical Thinking Skills Assessment - Graduating Seniors

MEDIAN Scores

Skill/Attribute	2015		2016	2016	2017	Five-
	Spring	2015 Fall	Spring	Fall	Spring	Semester Average
N	251	153	275	172	242	218.6
OVERALL SCORE	71	71	71	71	72	71
Analysis	70	75	70	70	70	71
Deduction	69	69	69	69	69	69
Evaluation	71	67	67	71	69	69
Explanation	74	68	68	68	74	70
Induction	77	77	74	74	77	76
Inference	75	72	75	72	75	74
Interpretation	74	74	74	74	81	75
Aggregate sample of CCTST Four Year College Students, average percentile score:						
	29	32	30	31	30	30

MEAN Scores

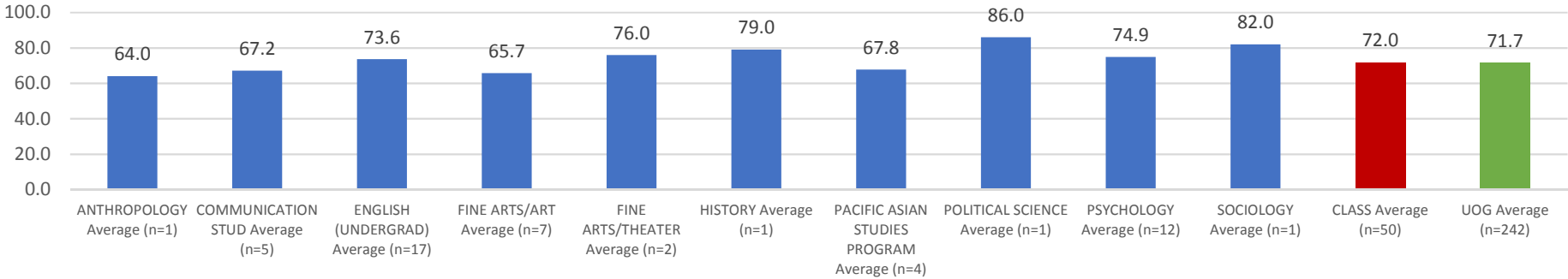
Skill/Attribute	2015		2016	2016	2017	Five-
	Spring	Fall	Spring	Fall	Spring	Semester Average
N	251	153	275	172	242	218.60
OVERALL SCORE	71.4	70.8	70.9	70.8	71.7	71.12
Analysis	73.2	73.0	73.0	72.9	72.5	72.92
Deduction	70.8	70.2	70.7	70.6	71.2	70.70
Evaluation	70.2	69.4	69.8	69.8	70.4	69.92
Explanation	71.1	71.1	71.1	70.8	71.8	71.18
Induction	76.1	75.7	75.3	75.1	76.2	75.68
Inference	74.5	73.4	73.6	73.1	74.5	73.82
Interpretation	76.7	77.2	76.4	76.4	77.9	76.92
Aggregate sample of CCTST Four Year College Students, average percentile score:						
	29	32	30	31	34	31



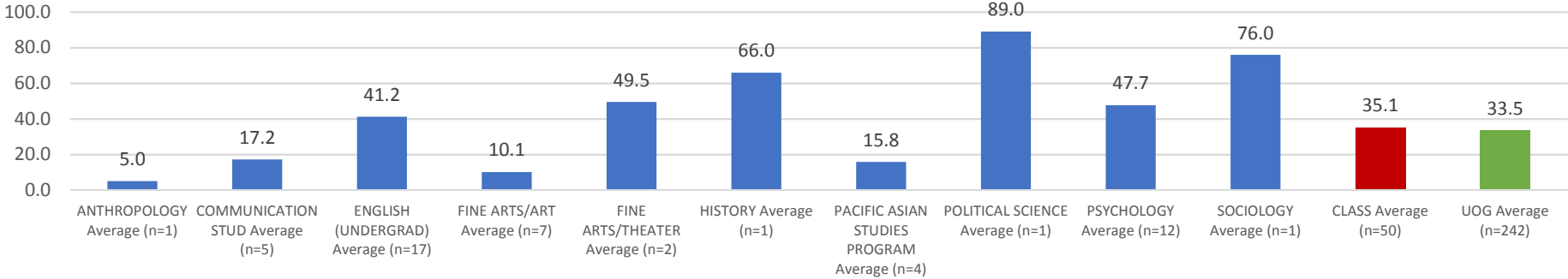


University of Guam
Academic & Student Affairs
Institutional Effectiveness

Critical Thinking Skills Test Overall Results - CLASS Graduating Seniors 2017 Spring



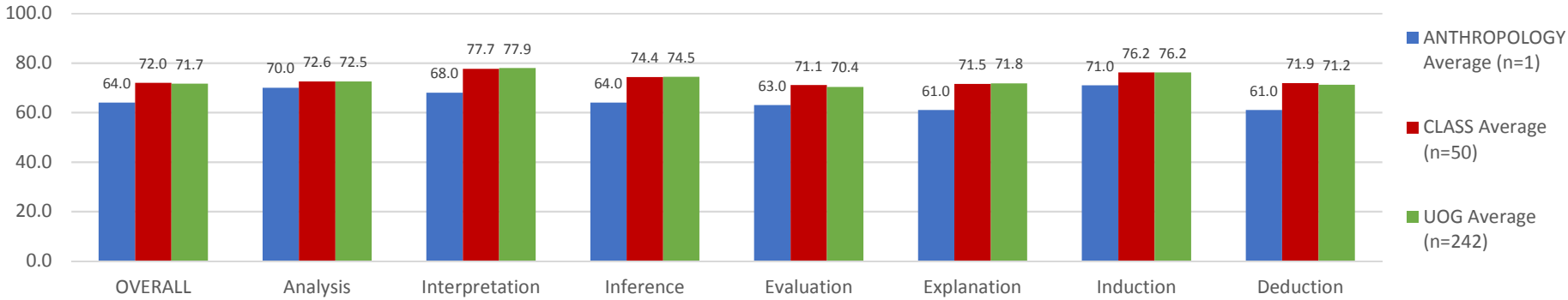
Critical Thinking Skills Test Percentile Results - CLASS Graduating Seniors 2017 Spring



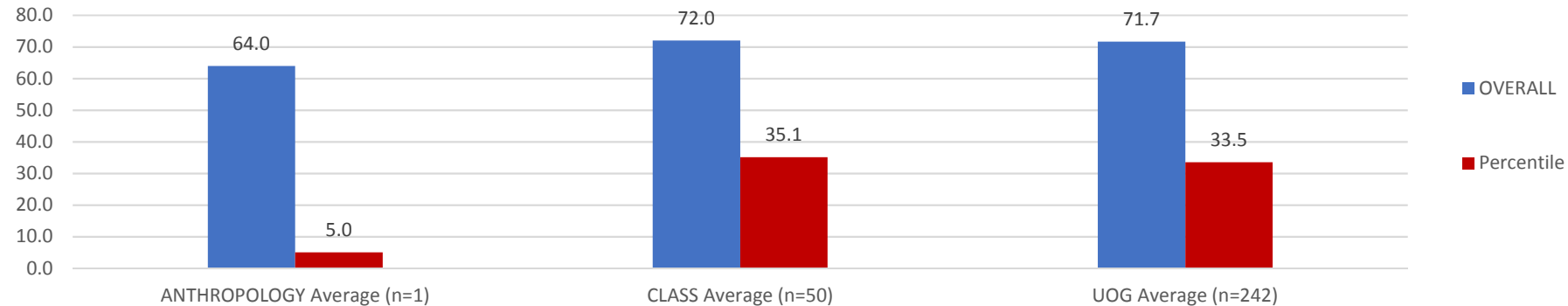


University of Guam
Academic & Student Affairs
Institutional Effectiveness

Critical Thinking Skills Test Overall Results - Anthropology Graduating Seniors 2017 Spring



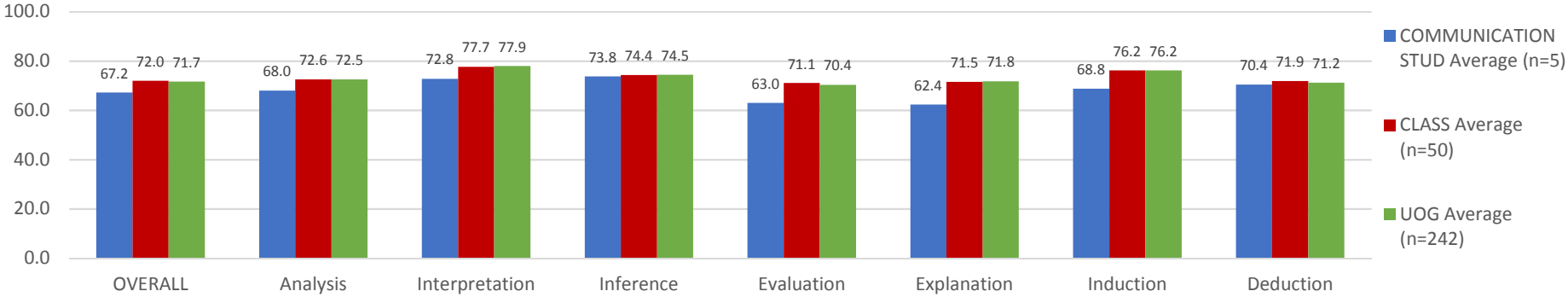
Critical Thinking Skills Test Percentile Results - Anthropology Graduating Seniors 2017 Spring



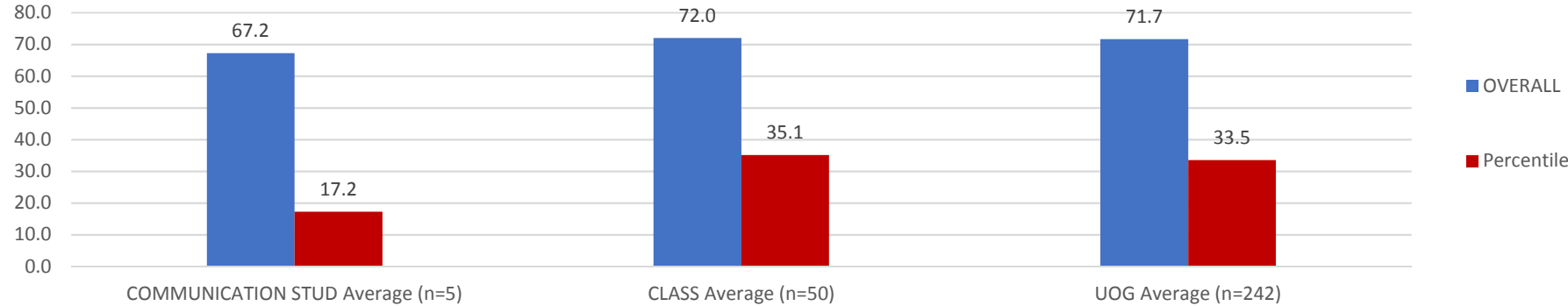


University of Guam
Academic & Student Affairs
Institutional Effectiveness

Critical Thinking Skills Test Overall Results - Communication Studies Graduating Seniors 2017 Spring



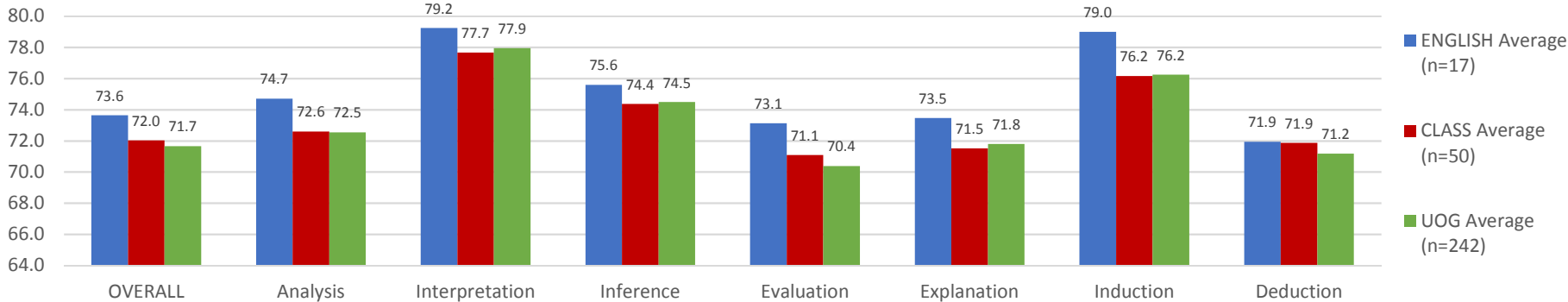
Critical Thinking Skills Test Percentile Results - Communication Studies Graduating Seniors 2017 Spring



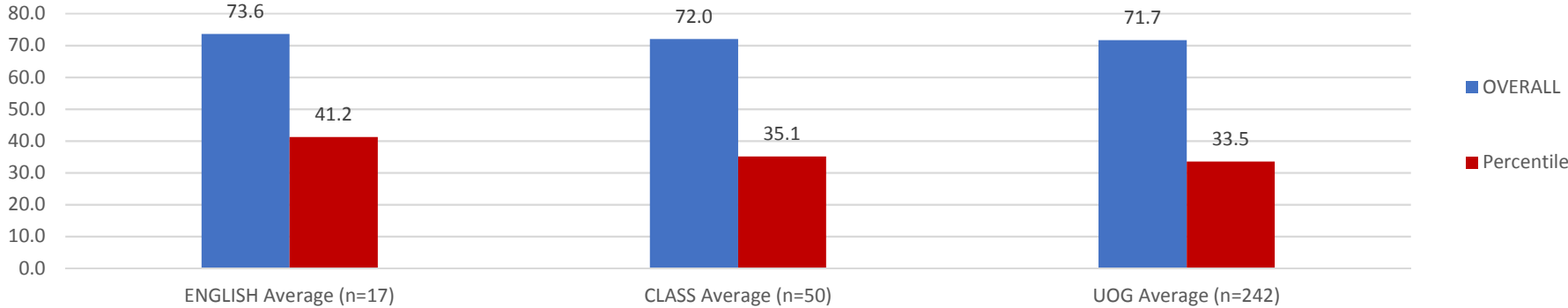


University of Guam
Academic & Student Affairs
Institutional Effectiveness

Critical Thinking Skills Test Overall Results - English Graduating Seniors 2017 Spring



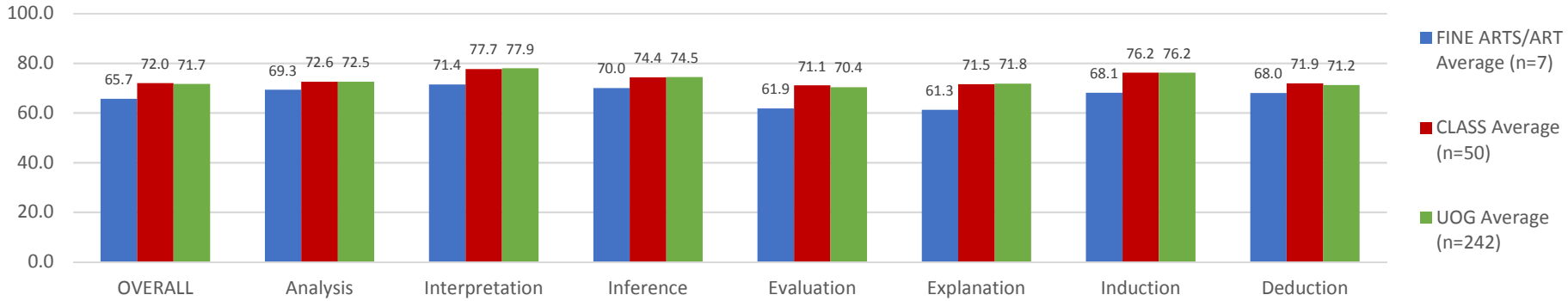
Critical Thinking Skills Test Percentile Results - English Graduating Seniors 2017 Spring



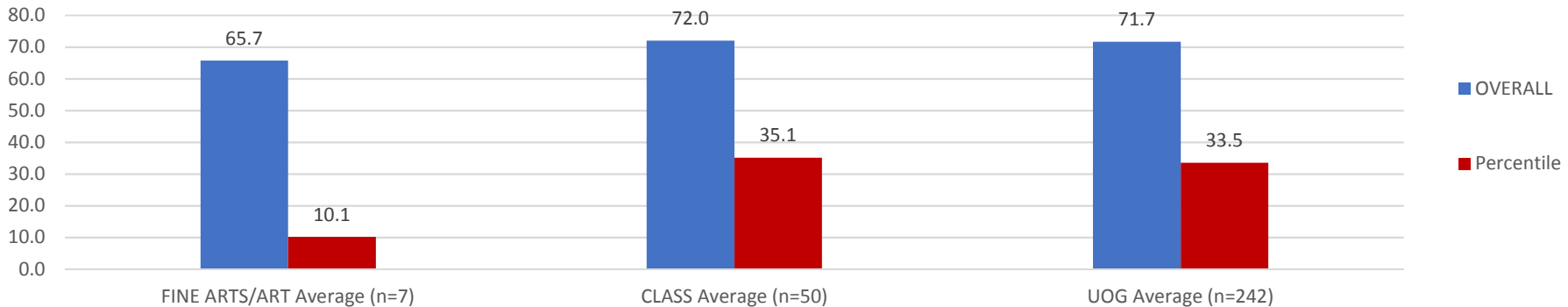


University of Guam
 Academic & Student Affairs
 Institutional Effectiveness

Critical Thinking Skills Test Overall Results - Fine Arts/Art Graduating Seniors 2017 Spring



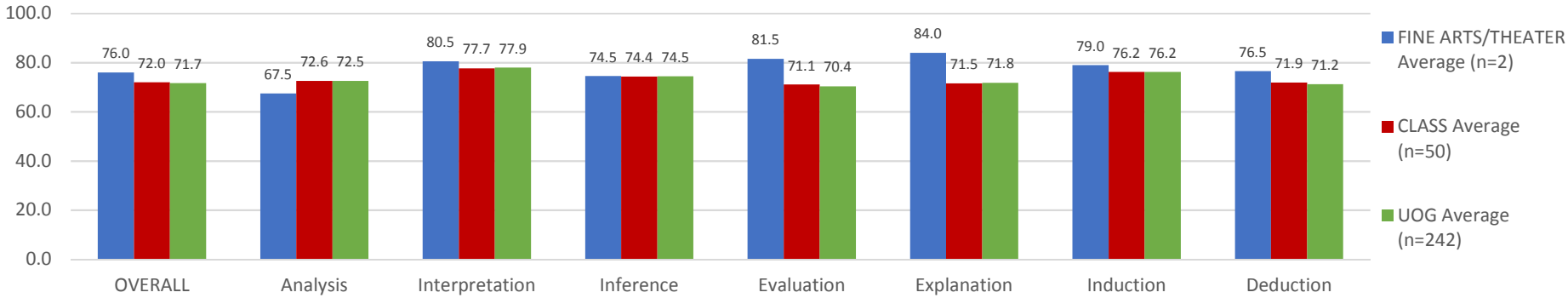
Critical Thinking Skills Test Percentile Results - Fine Arts/Art Graduating Seniors 2017 Spring



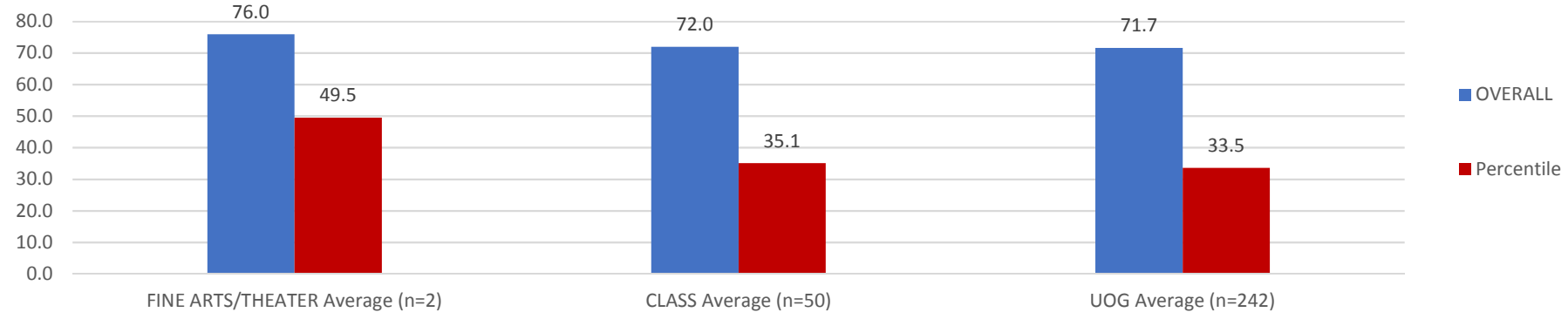


University of Guam
Academic & Student Affairs
Institutional Effectiveness

Critical Thinking Skills Test Overall Results - Fine Arts/Theater Graduating Seniors 2017 Spring



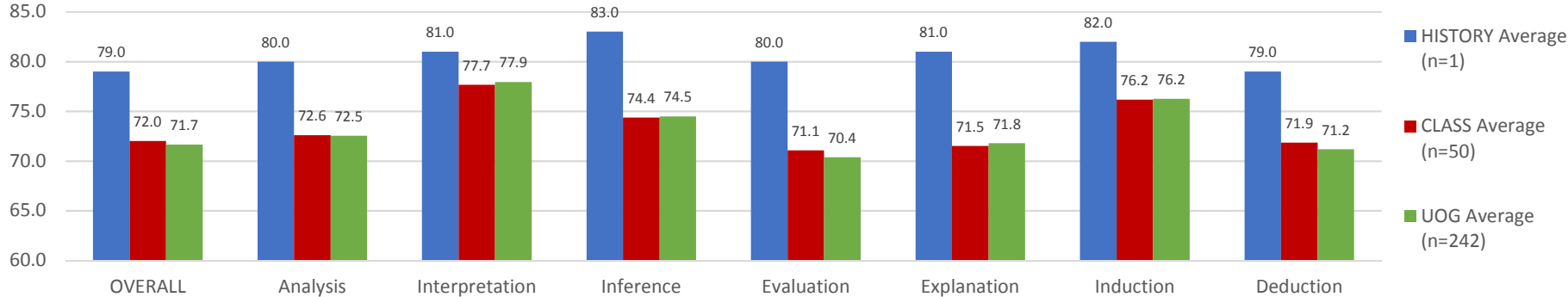
Critical Thinking Skills Test Percentile Results - Fine Arts/Theater Graduating Seniors 2017 Spring



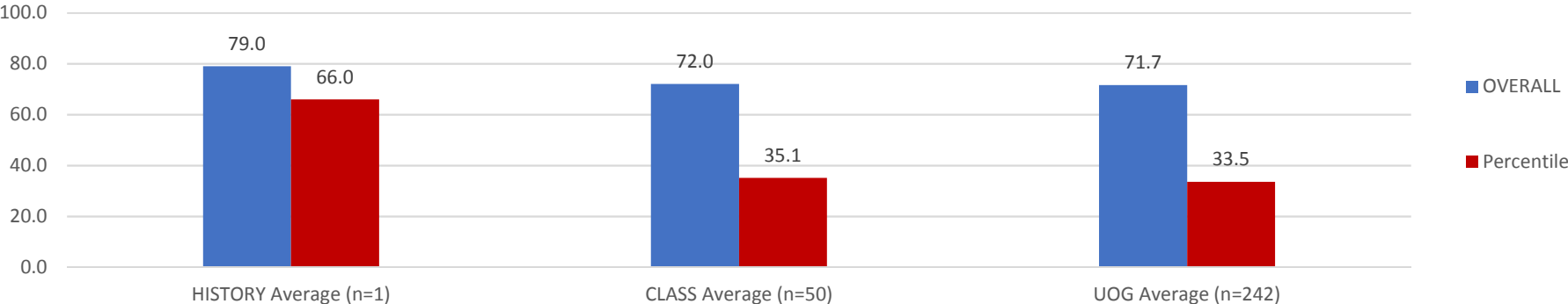


University of Guam
Academic & Student Affairs
Institutional Effectiveness

Critical Thinking Skills Test Overall Results - History Graduating Seniors 2017 Spring



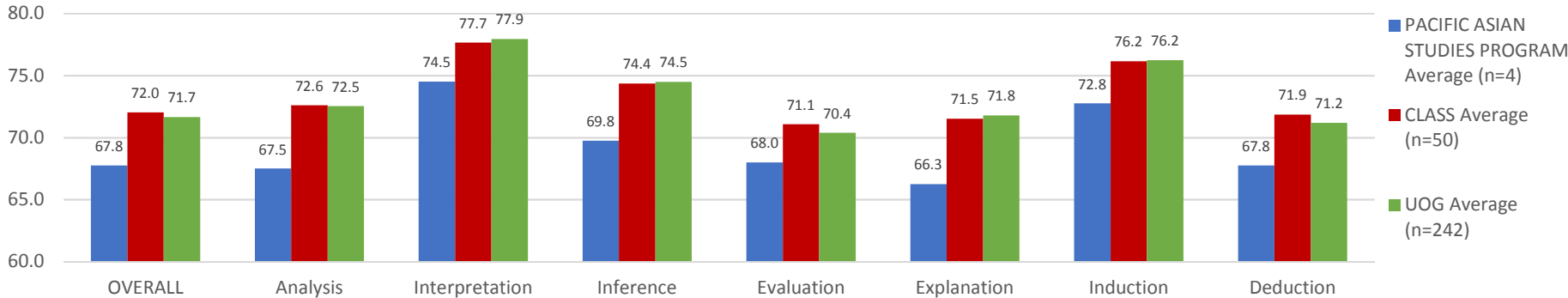
Critical Thinking Skills Test Percentile Results - History Graduating Seniors 2017 Spring



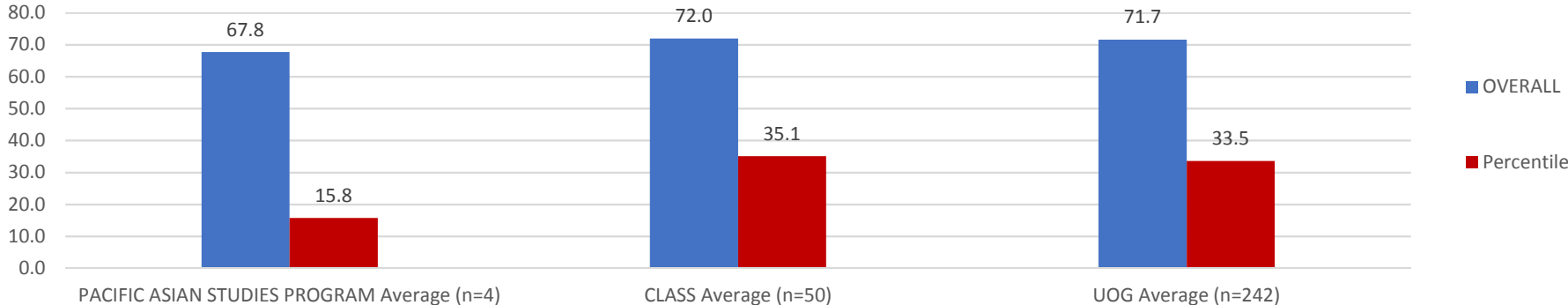


University of Guam
Academic & Student Affairs
Institutional Effectiveness

Critical Thinking Skills Test Overall Results - Pacific Asian Studies Graduating Seniors 2017 Spring



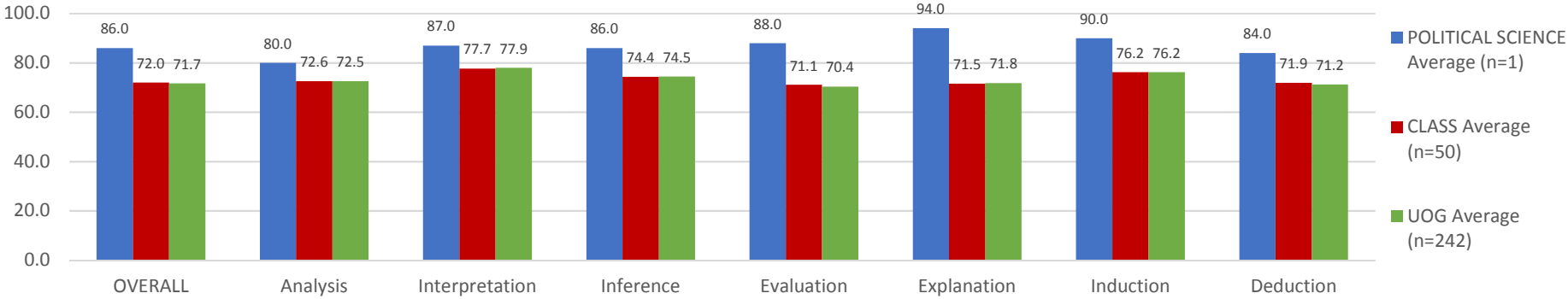
Critical Thinking Skills Test Percentile Results - Pacific Asian Studies Graduating Seniors 2017 Spring



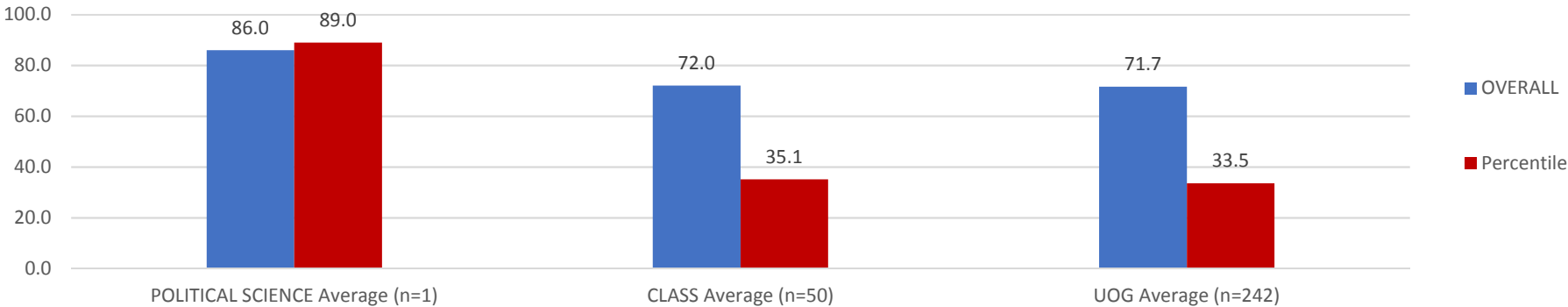


University of Guam
Academic & Student Affairs
Institutional Effectiveness

Critical Thinking Skills Test Overall Results - Political Science Graduating Seniors 2017 Spring



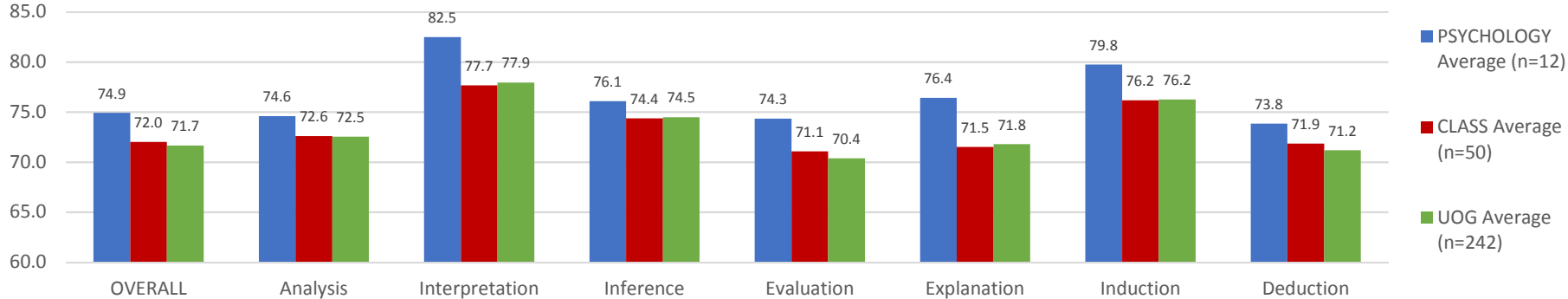
Critical Thinking Skills Test Percentile Results - Political Science Graduating Seniors 2017 Spring



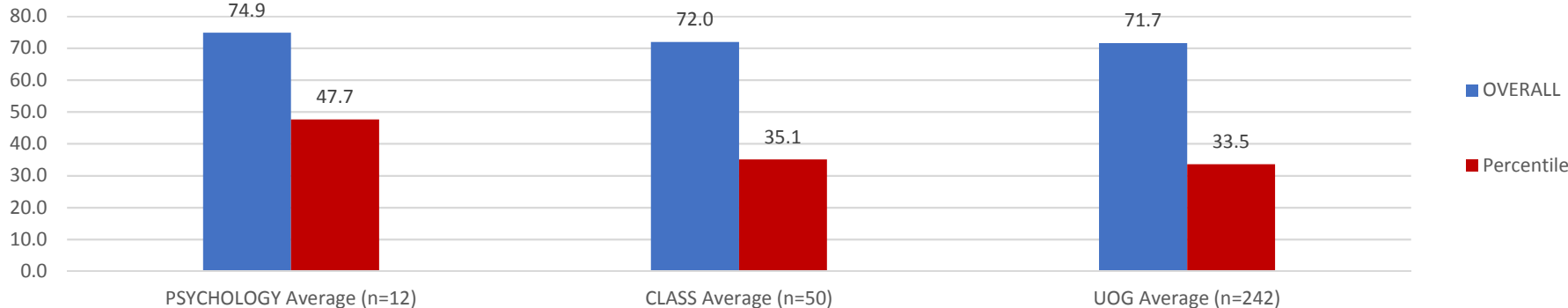


University of Guam
Academic & Student Affairs
Institutional Effectiveness

Critical Thinking Skills Test Overall Results - Psychology Graduating Seniors 2017 Spring



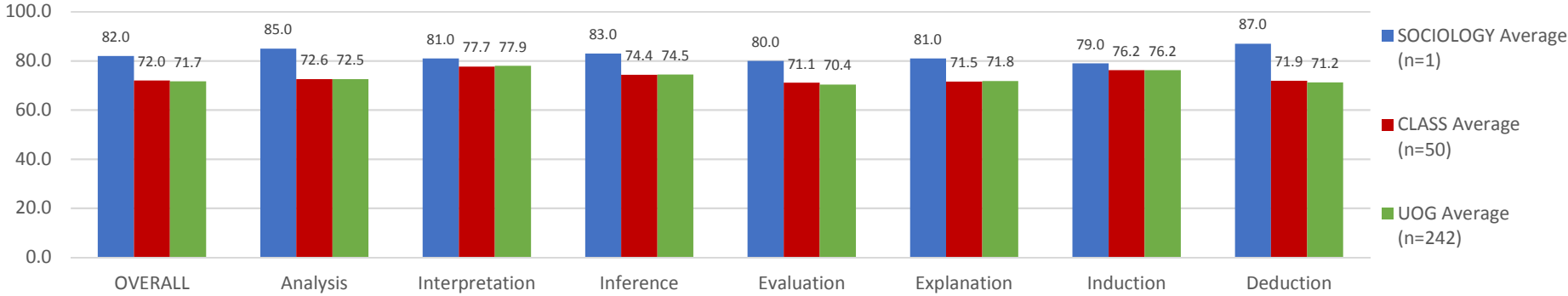
Critical Thinking Skills Test Percentile Results - Psychology Graduating Seniors 2017 Sprin



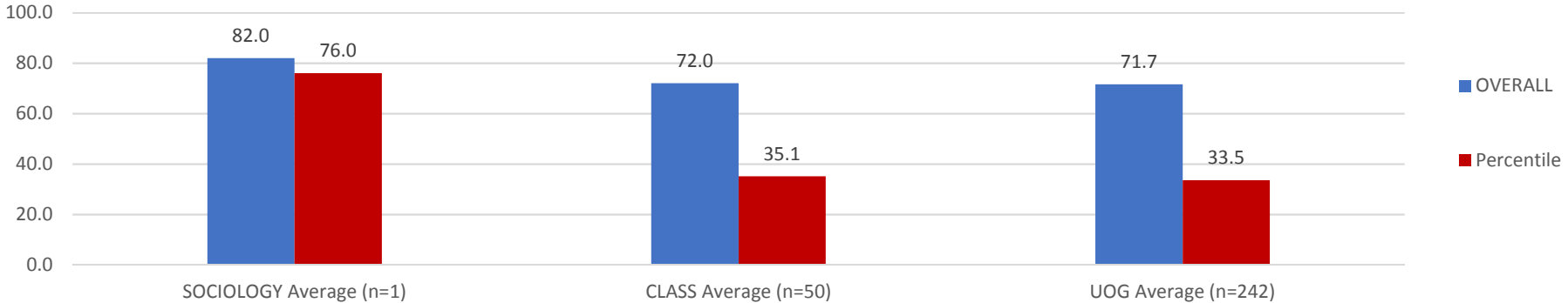


University of Guam
Academic & Student Affairs
Institutional Effectiveness

Critical Thinking Skills Test Overall Results - Sociology Graduating Seniors 2017 Spring



Critical Thinking Skills Test Percentile Results - Sociology Graduating Seniors 2017 Spring



Assessing Core Competencies: Results of Critical Thinking Skills Testing

2017 Spring Graduating Seniors
from the College of Natural and
Applied Sciences (CNAS)

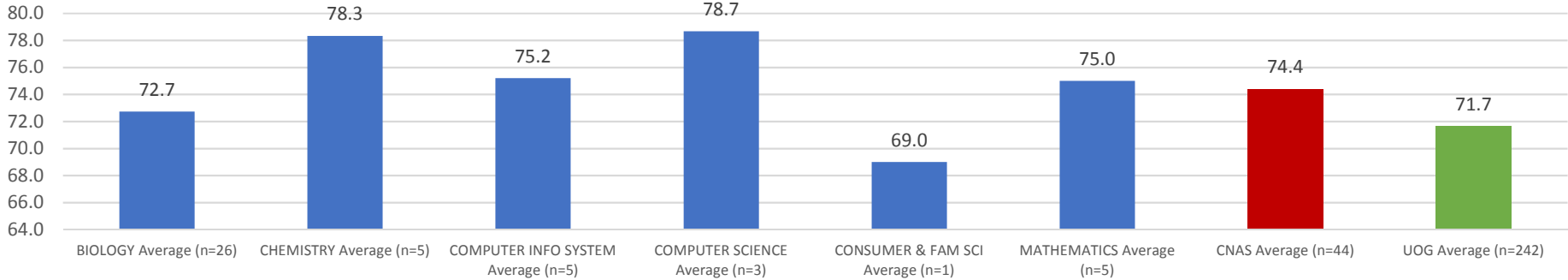
Office of Institutional Effectiveness
Academic and Student Affairs
University of Guam
Unibetsedat Guahan



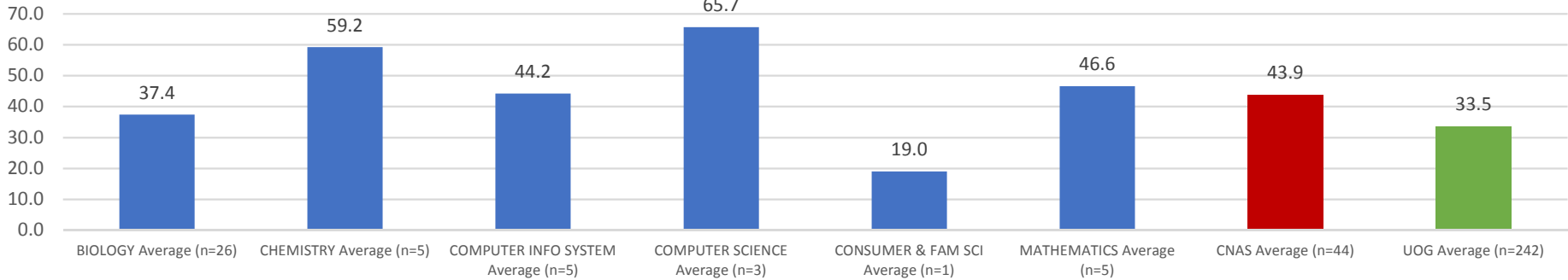


University of Guam
Academic & Student Affairs
Institutional Effectiveness

Critical Thinking Skills Test Overall Results - CNAS Graduating Seniors 2017 Spring



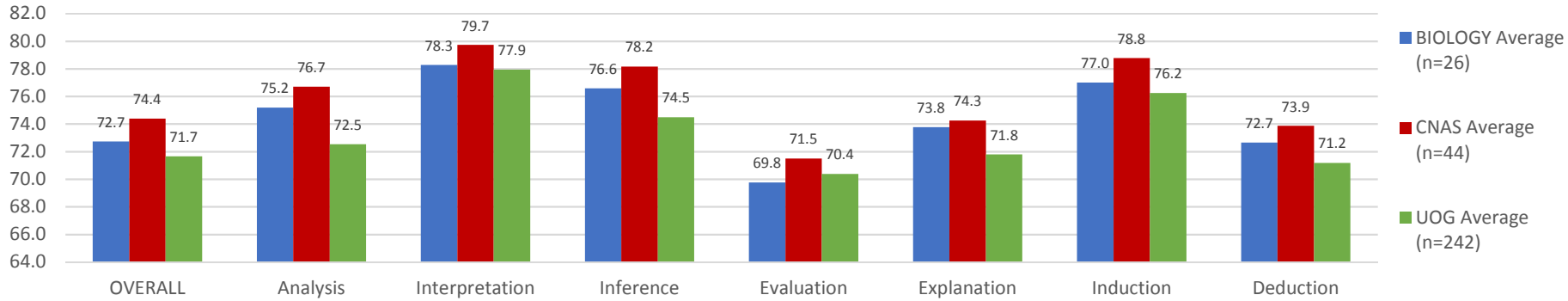
Critical Thinking Skills Test Overall Results - CNAS Graduating Seniors 2017 Spring



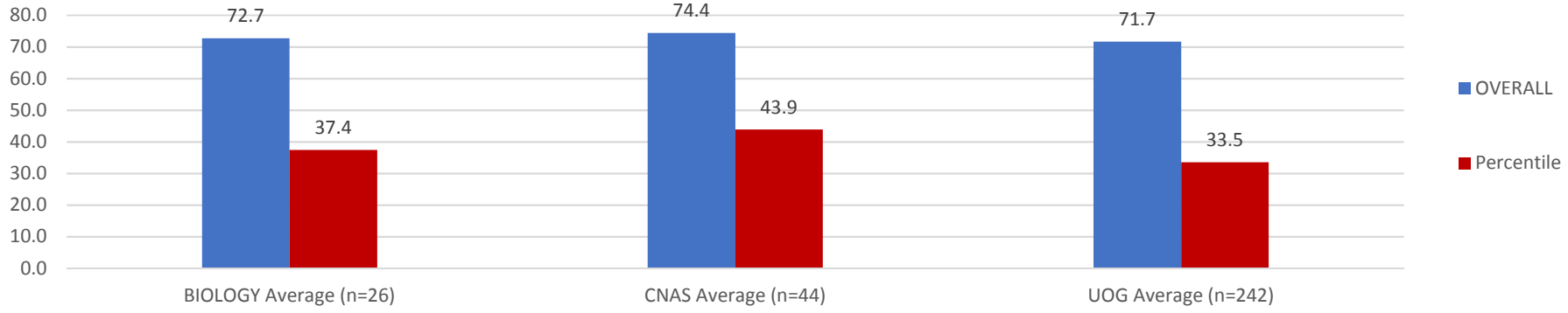


University of Guam
Academic & Student Affairs
Institutional Effectiveness

Critical Thinking Skills Test Overall Results - Biology Graduating Seniors 2017 Spring



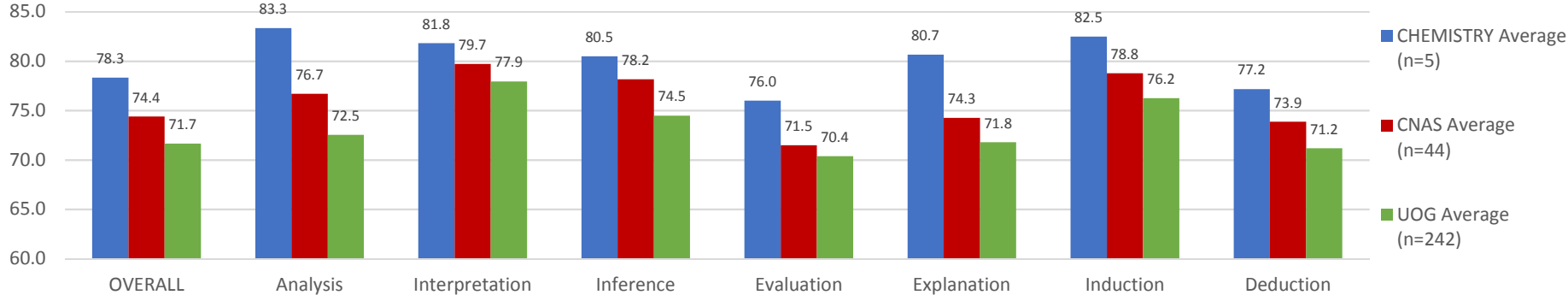
Critical Thinking Skills Test Percentile Results - Biology Graduating Seniors 2017 Spring



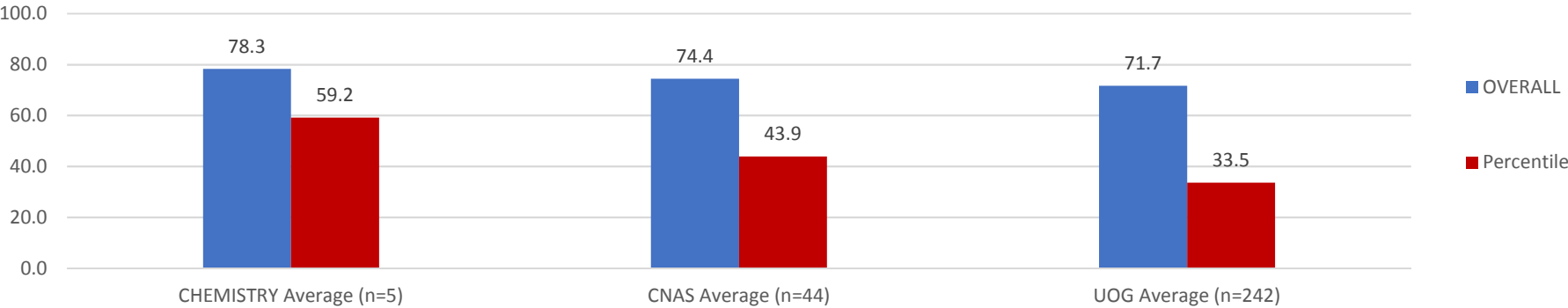


University of Guam
Academic & Student Affairs
Institutional Effectiveness

Critical Thinking Skills Test Overall Results - Chemistry Graduating Seniors 2017 Spring



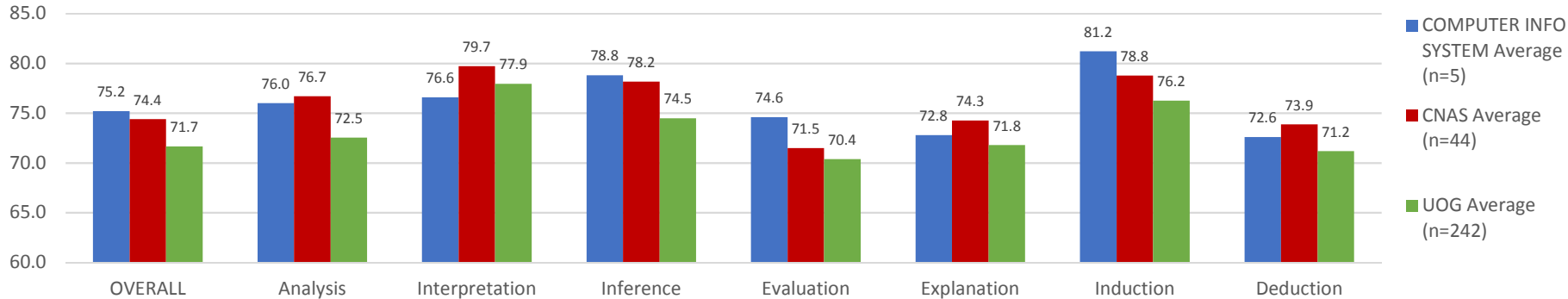
Critical Thinking Skills Test Percentile Results - Chemistry Graduating Seniors 2017 Spring



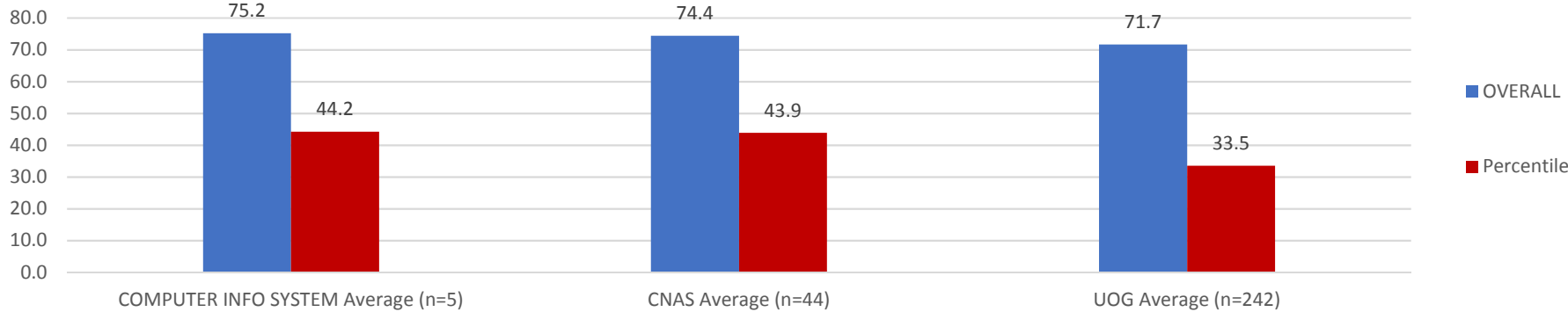


University of Guam
Academic & Student Affairs
Institutional Effectiveness

Critical Thinking Skills Test Overall Results - Computer Info Systems Graduating Seniors 2017 Spring



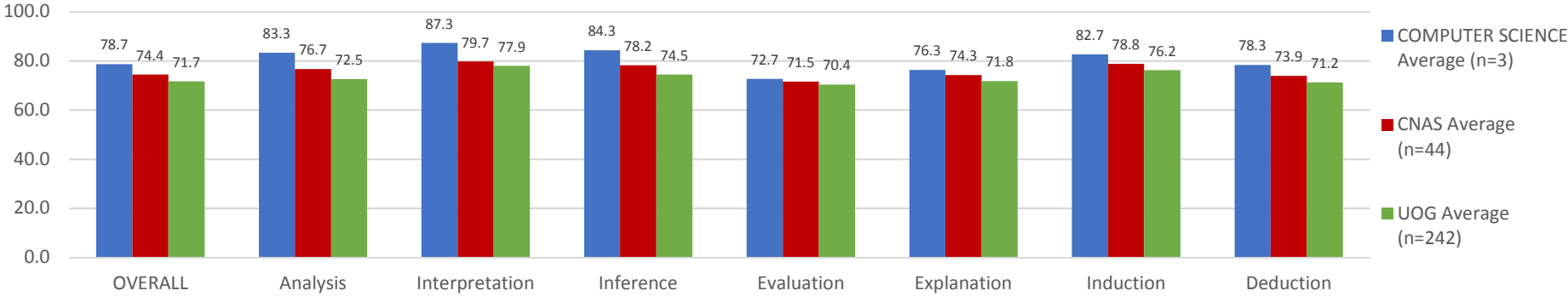
Critical Thinking Skills Test Percentile Results - Computer Info Systems Graduating Seniors 2017 Spring



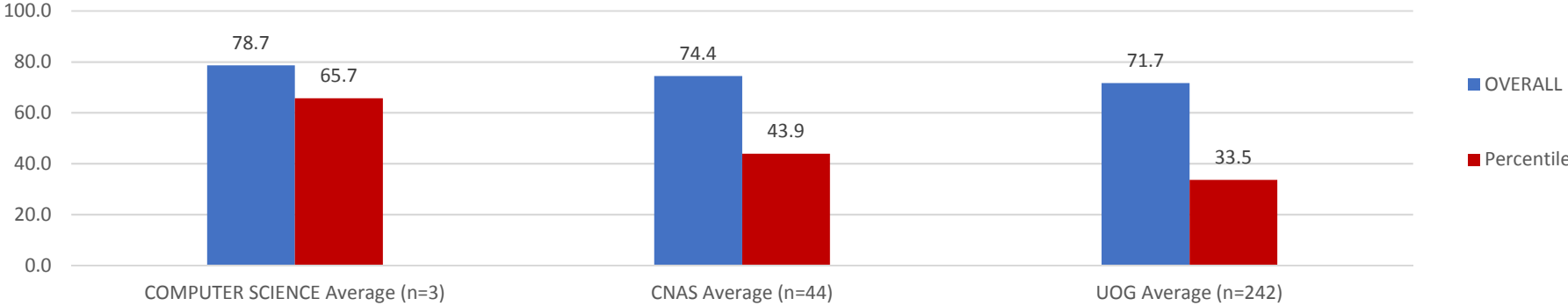


University of Guam
Academic & Student Affairs
Institutional Effectiveness

Critical Thinking Skills Test Overall Results - Computer Science Graduating Seniors 2017 Spring



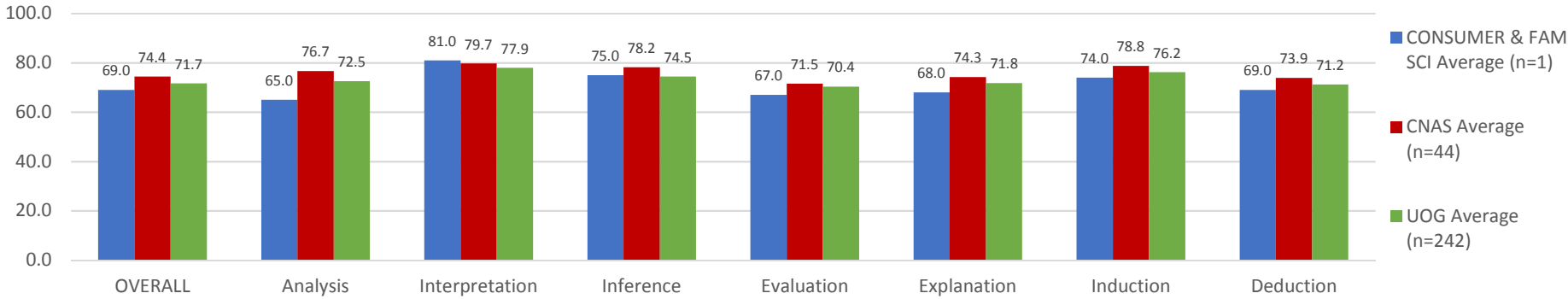
Critical Thinking Skills Test Percentile Results - Computer Science Graduating Seniors 2017 Spring



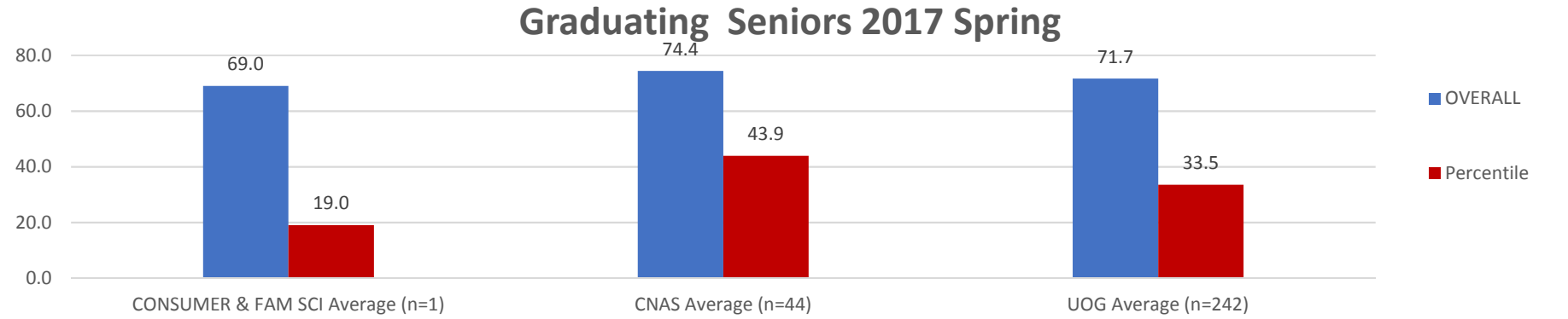


University of Guam
Academic & Student Affairs
Institutional Effectiveness

Critical Thinking Skills Test Overall Results - Consumer & Family Sciences Graduating Seniors 2017 Spring



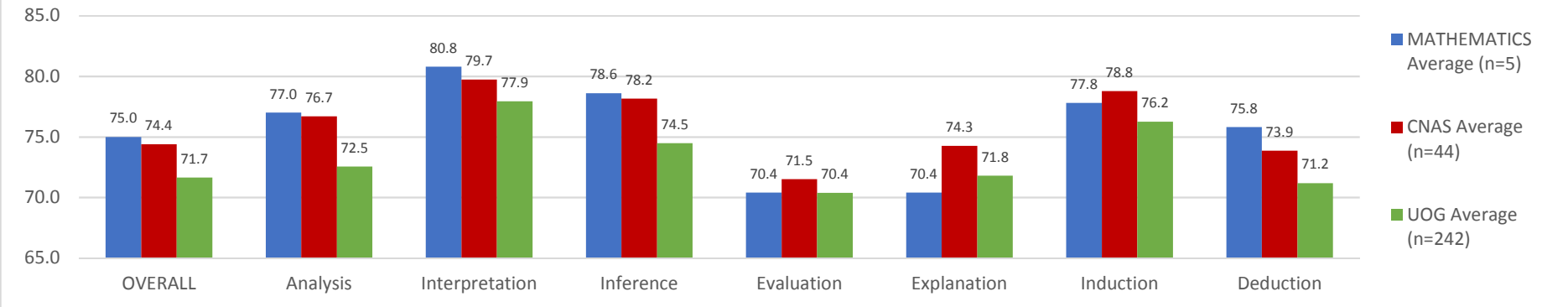
Critical Thinking Skills Test Percentile Results - Consumer & Family Sciences Graduating Seniors 2017 Spring



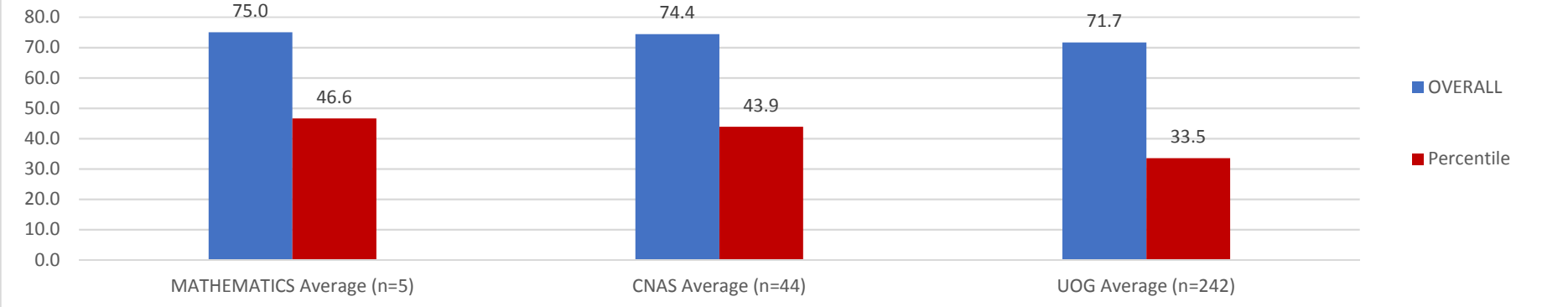


University of Guam
Academic & Student Affairs
Institutional Effectiveness

Critical Thinking Skills Test Overall Results - Mathematics Graduating Seniors 2017 Spring



Critical Thinking Skills Test Percentile Results - Mathematics Graduating Seniors 2017 Spring



Assessing Core Competencies: Results of Critical Thinking Skills Testing

2017 Spring Graduating Seniors
from the School of Business and
Public Administration (SBPA)

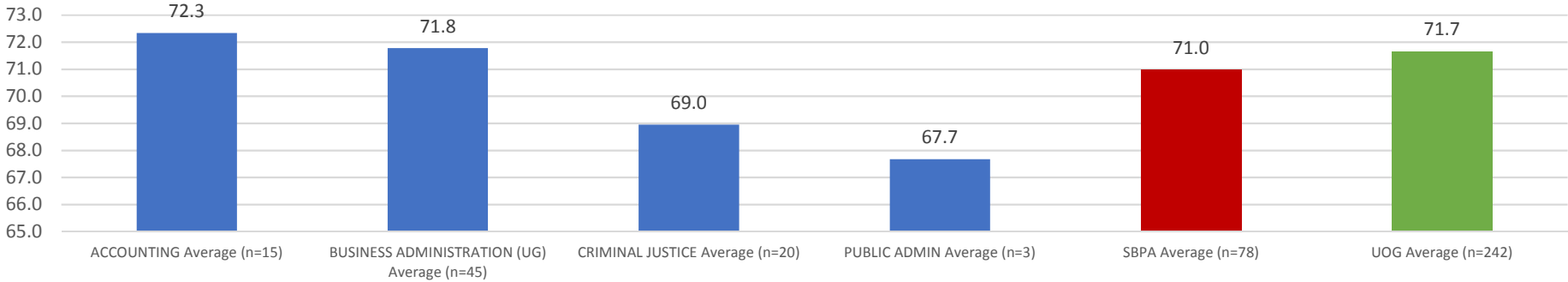
Office of Institutional Effectiveness
Academic and Student Affairs
University of Guam
Unibetsedat Guahan



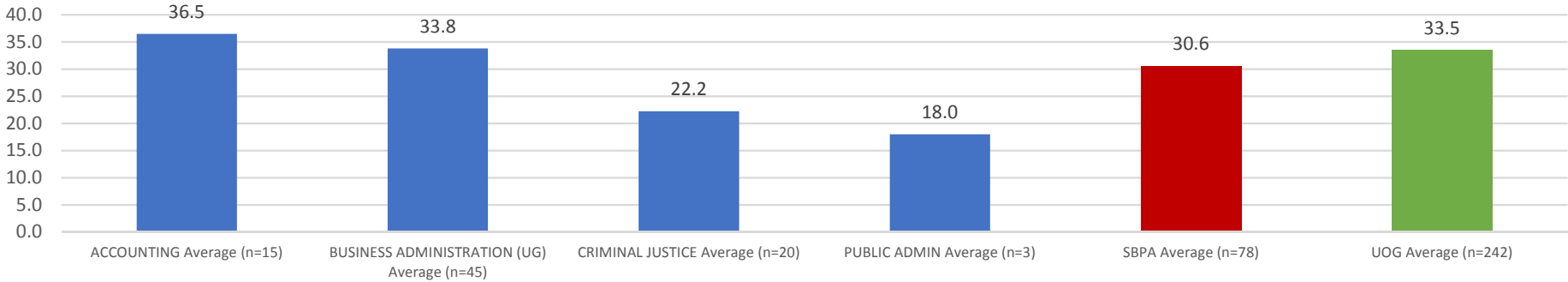


University of Guam
Academic & Student Affairs
Institutional Effectiveness

Critical Thinking Skills Test Overall Results - SBPA Graduating Seniors 2017 Spring



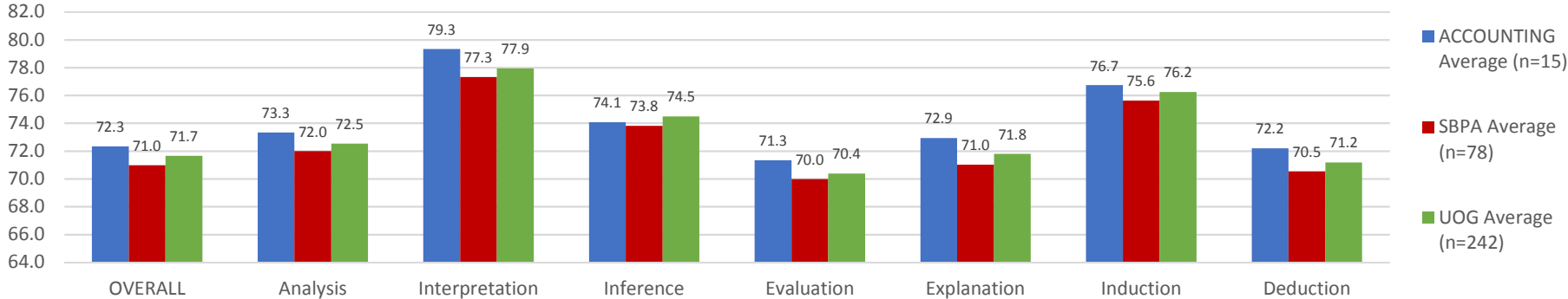
Critical Thinking Skills Test Overall Results - SBPA Graduating Seniors 2017 Spring



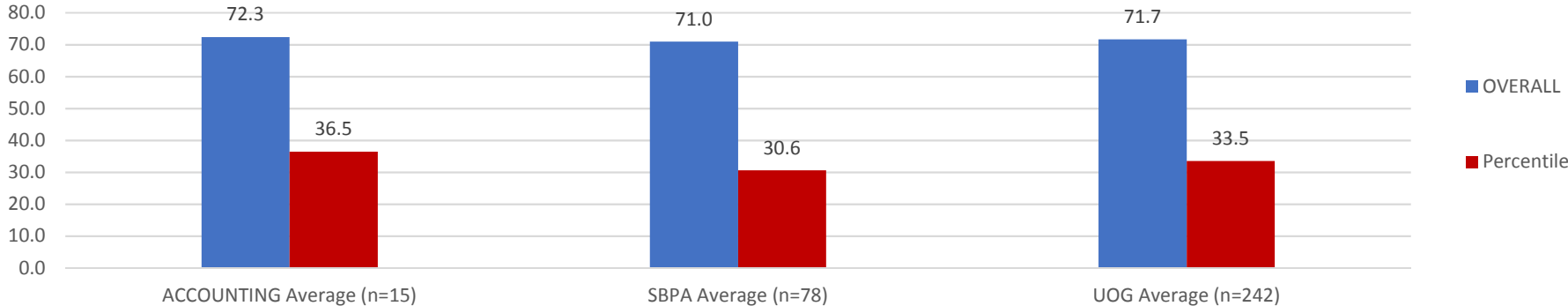


University of Guam
Academic & Student Affairs
Institutional Effectiveness

Critical Thinking Skills Test Overall Results - Accounting Graduating Seniors 2017 Spring



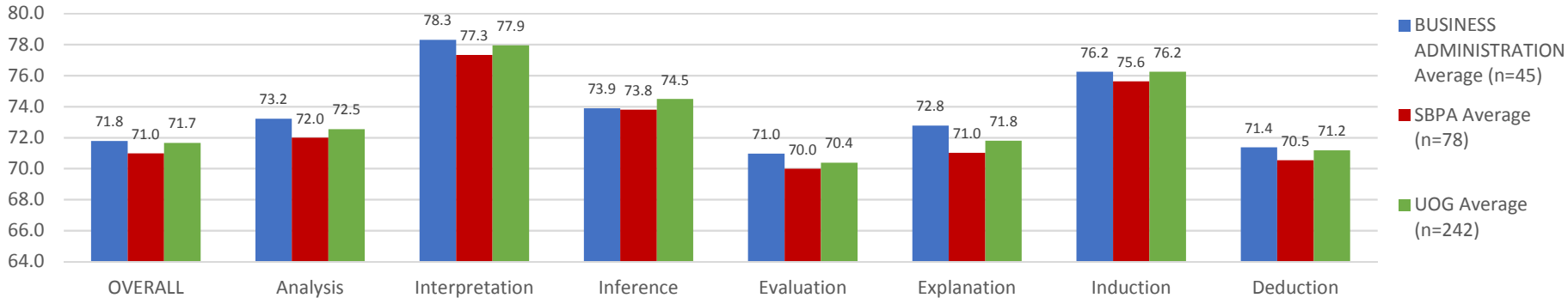
Critical Thinking Skills Test Percentile Results - Accounting Graduating Seniors 2017 Spring



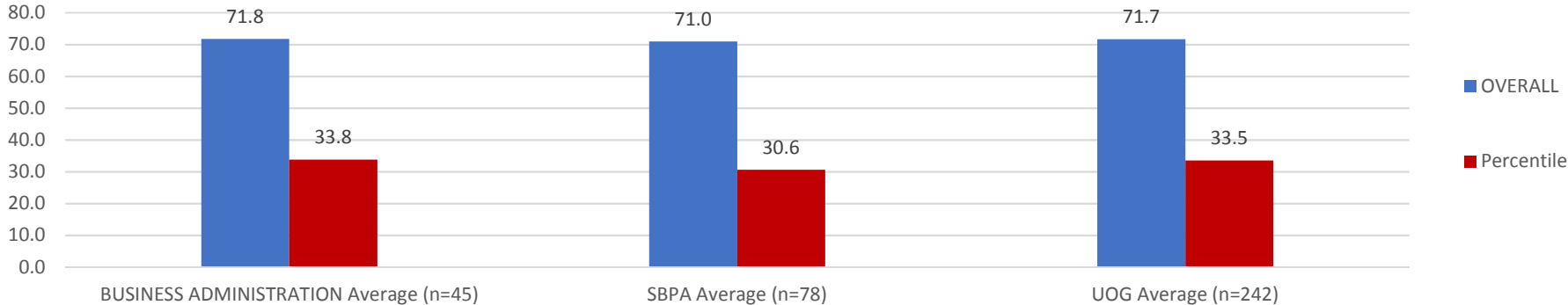


University of Guam
Academic & Student Affairs
Institutional Effectiveness

Critical Thinking Skills Test Overall Results - Business Administration Graduating Seniors 2017 Spring



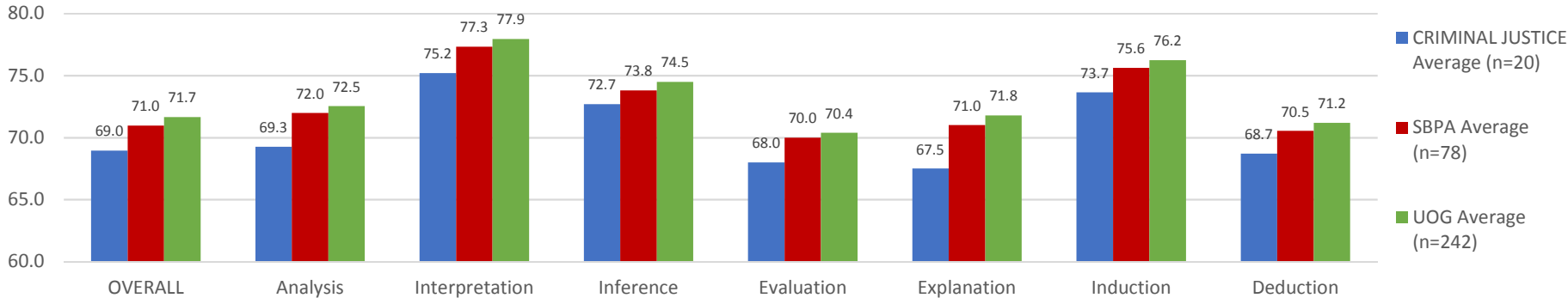
Critical Thinking Skills Test Percentile Results - Business Administration Graduating Seniors 2017 Spring



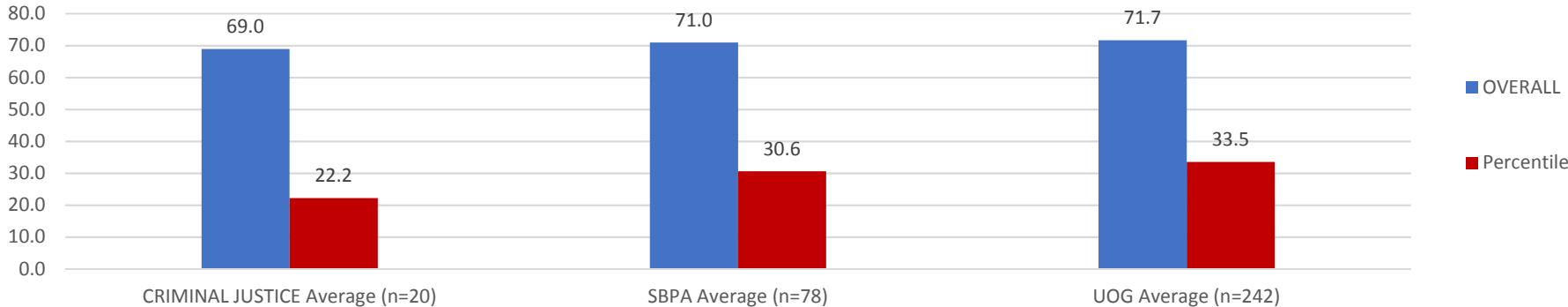


University of Guam
Academic & Student Affairs
Institutional Effectiveness

Critical Thinking Skills Test Overall Results - Criminal Justice Graduating Seniors 2017 Spring



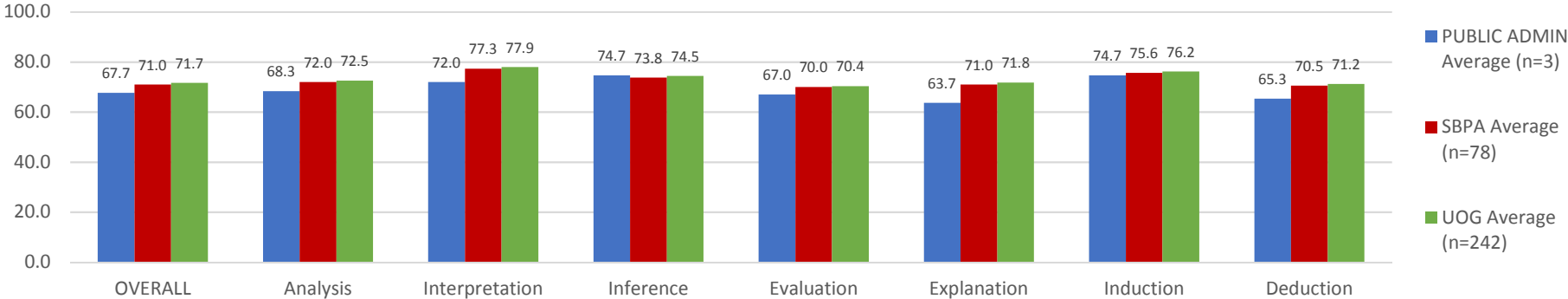
Critical Thinking Skills Test Percentile Results - Criminal Justice Graduating Seniors 2017 Spring



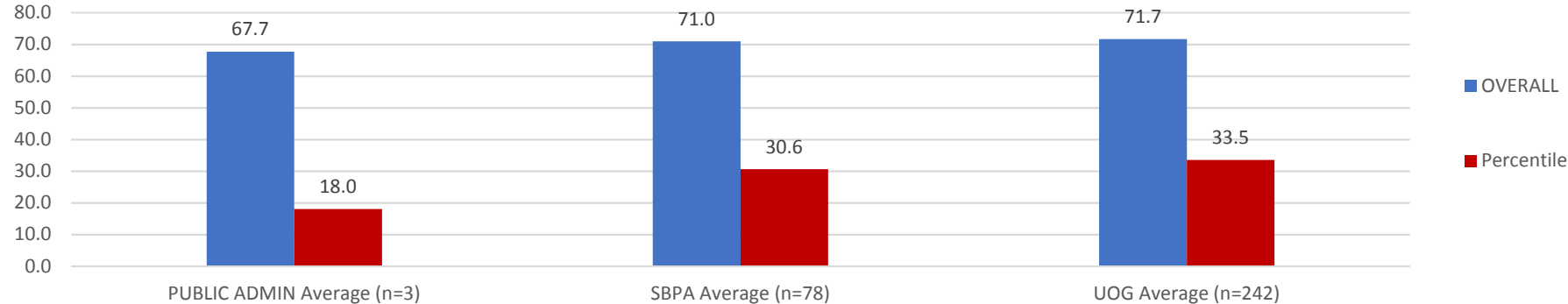


University of Guam
Academic & Student Affairs
Institutional Effectiveness

Critical Thinking Skills Test Overall Results - Public Administration Graduating Seniors 2017 Spring



Critical Thinking Skills Test Percentile Results - Public Administration Graduating Seniors 2017 Spring



Assessing Core Competencies: Results of Critical Thinking Skills Testing

2017 Spring Graduating Seniors
from the School of Nursing and
Health Sciences (SNHS)

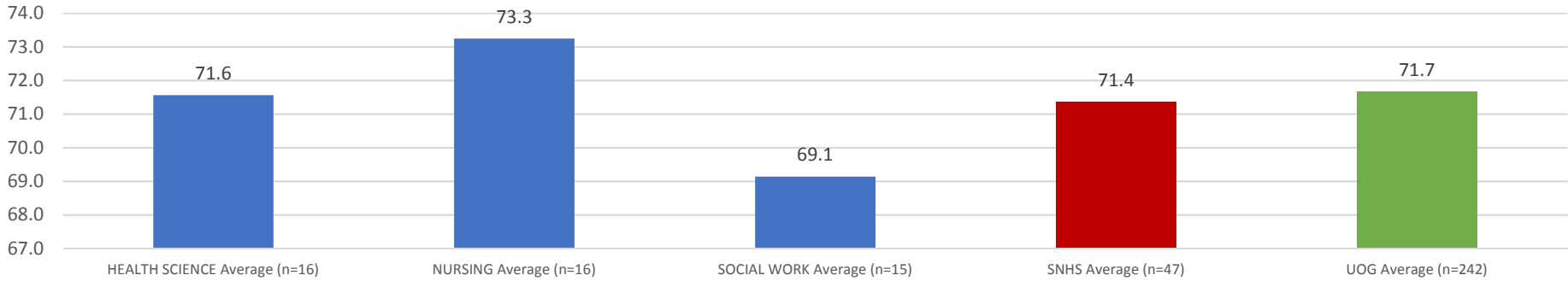
Office of Institutional Effectiveness
Academic and Student Affairs
University of Guam
Unibetsedat Guahan



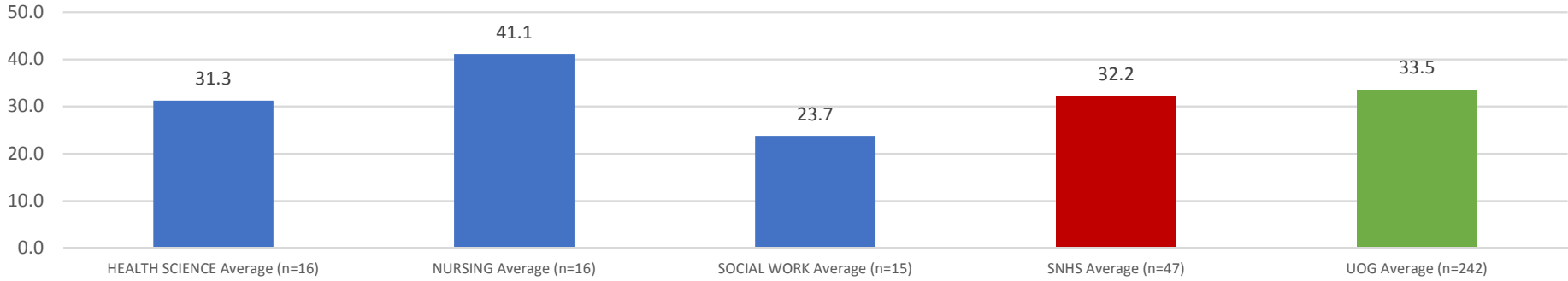


University of Guam
Academic & Student Affairs
Institutional Effectiveness

Critical Thinking Skills Test Overall Results - SNHS Graduating Seniors 2017 Spring



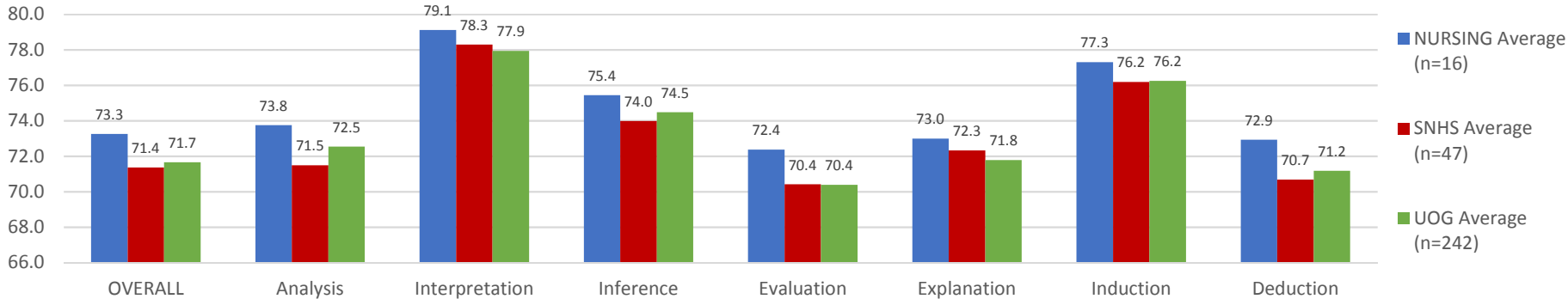
Critical Thinking Skills Test Overall Results - SNHS Graduating Seniors 2017 Spring



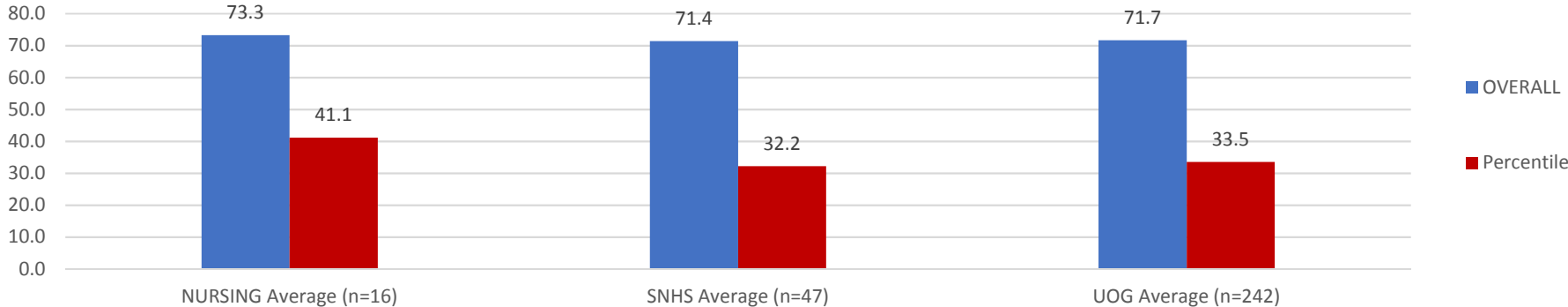


University of Guam
Academic & Student Affairs
Institutional Effectiveness

Critical Thinking Skills Test Overall Results - Nursing Graduating Seniors 2017 Spring



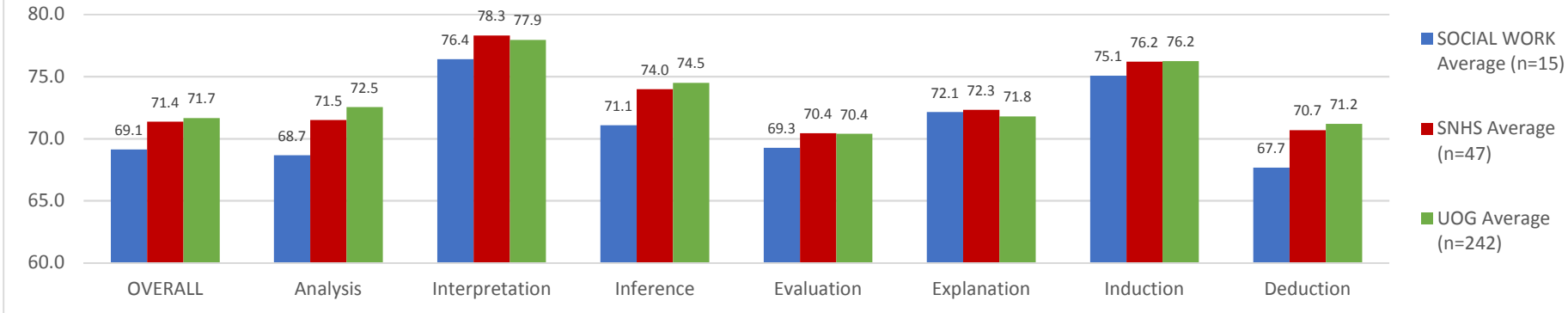
Critical Thinking Skills Test Percentile Results - Nursing Graduating Seniors 2017 Spring



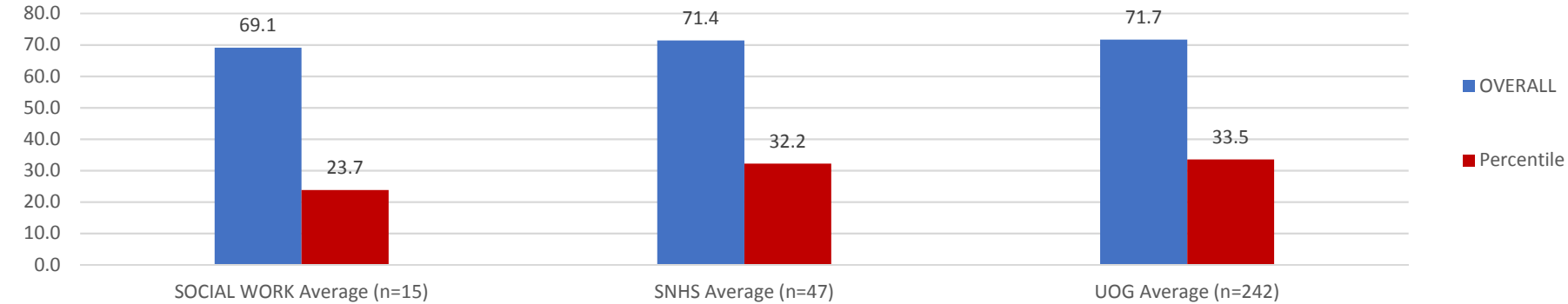


University of Guam
Academic & Student Affairs
Institutional Effectiveness

Critical Thinking Skills Test Overall Results - Social Work Graduating Seniors 2017 Spring



Critical Thinking Skills Test Percentile Results - Social Work Graduating Seniors 2017 Spring



Assessing Core Competencies: Results of Critical Thinking Skills Testing

2017 Spring Graduating Seniors
from the School of Education (SOE)

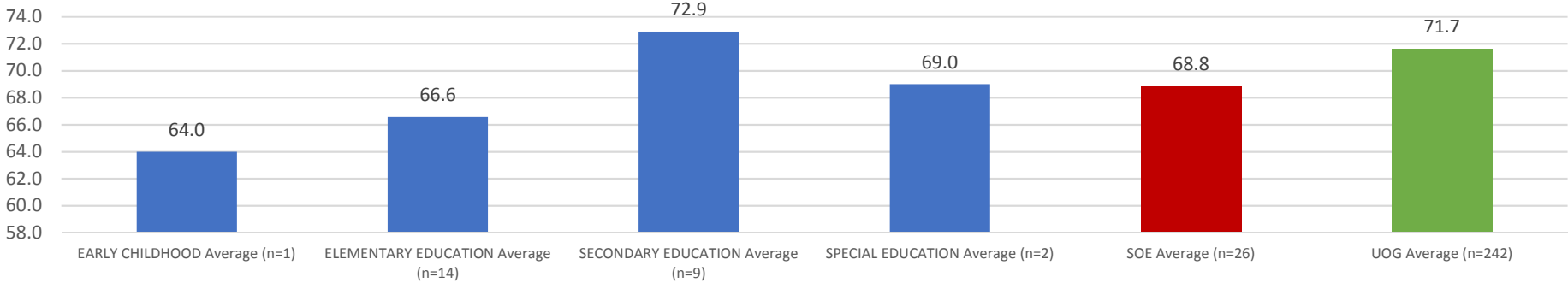
Office of Institutional Effectiveness
Academic and Student Affairs
University of Guam
Unibetsedat Guahan



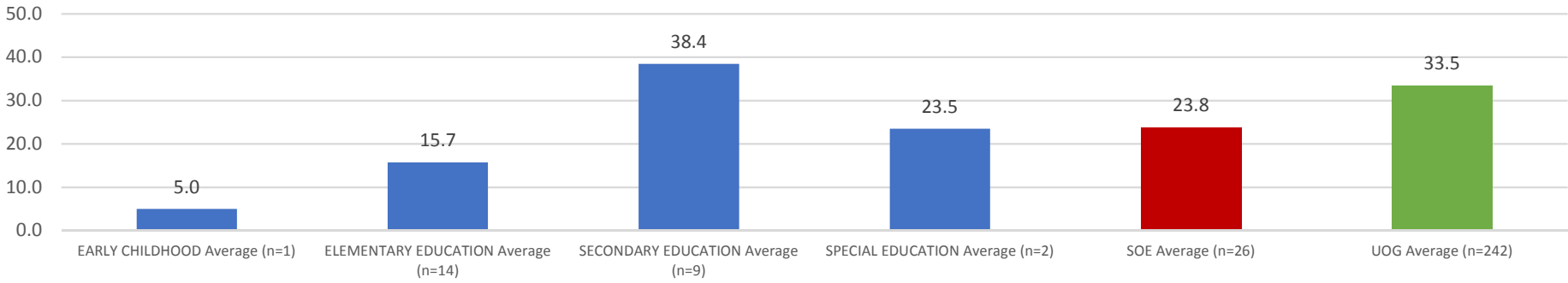


University of Guam
Academic & Student Affairs
Institutional Effectiveness

Critical Thinking Skills Test Overall Results - SOE Graduating Seniors 2017 Spring



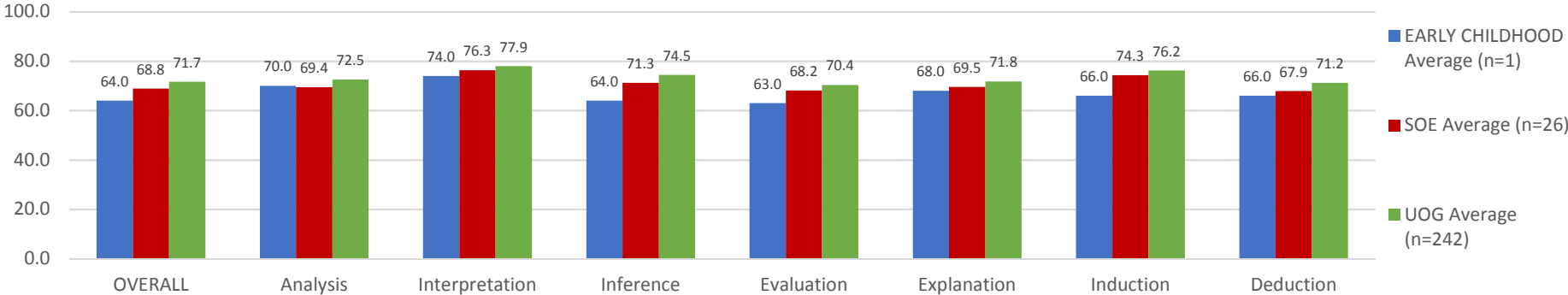
Critical Thinking Skills Test Overall Results - SOE Graduating Seniors 2017 Spring



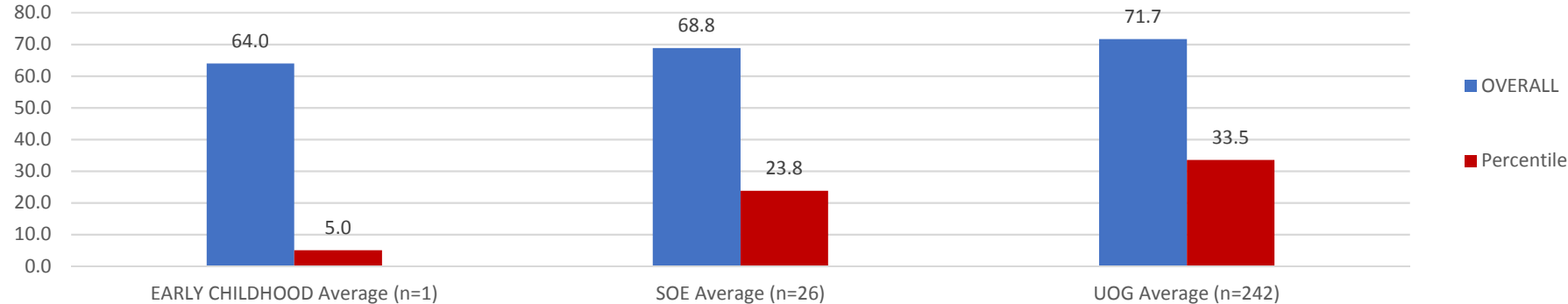


University of Guam
Academic & Student Affairs
Institutional Effectiveness

Critical Thinking Skills Test Overall Results - Early Childhood Graduating Seniors 2017 Spring



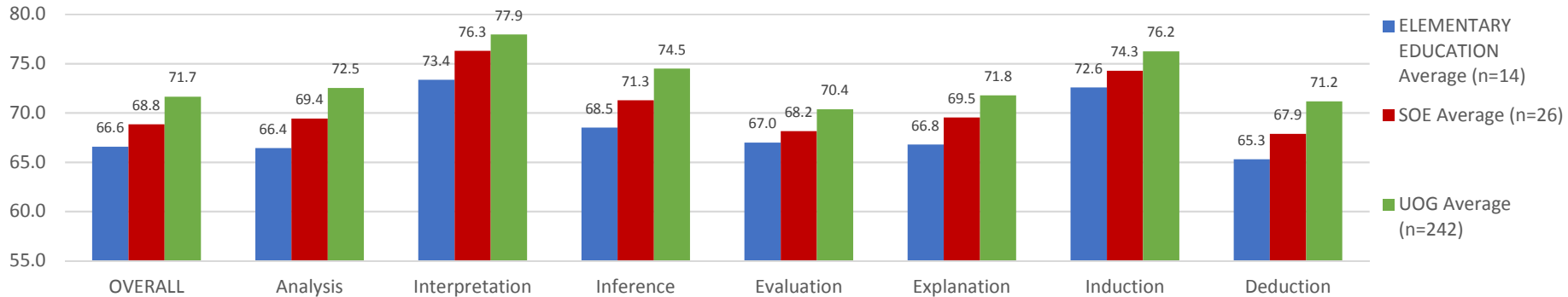
Critical Thinking Skills Test Percentile Results - Early Childhood Graduating Seniors 2017 Spring



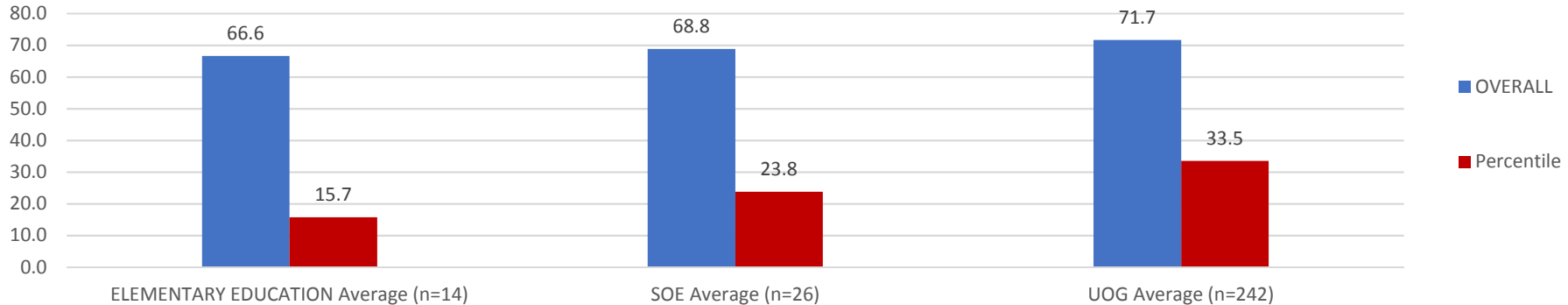


University of Guam
 Academic & Student Affairs
 Institutional Effectiveness

Critical Thinking Skills Test Overall Results - Elementary Education Graduating Seniors 2017 Spring



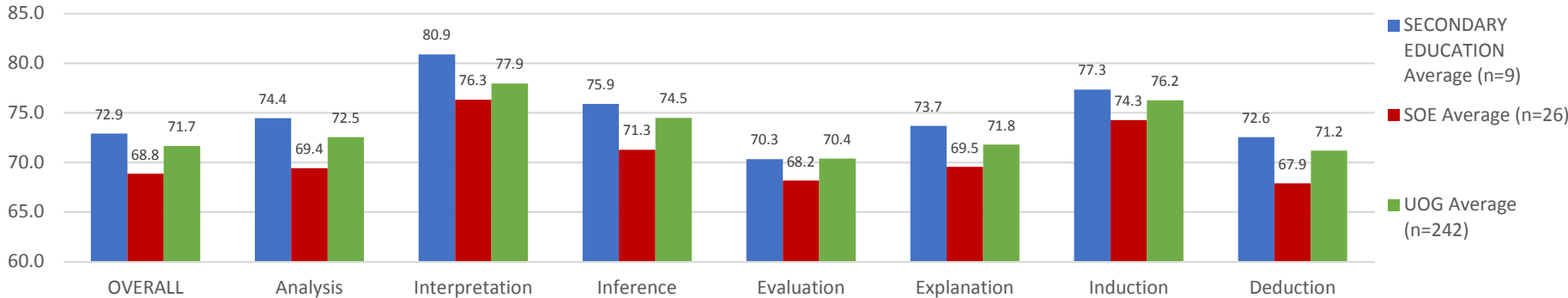
Critical Thinking Skills Test Percentile Results - Elementary Education Graduating Seniors 2017 Spring



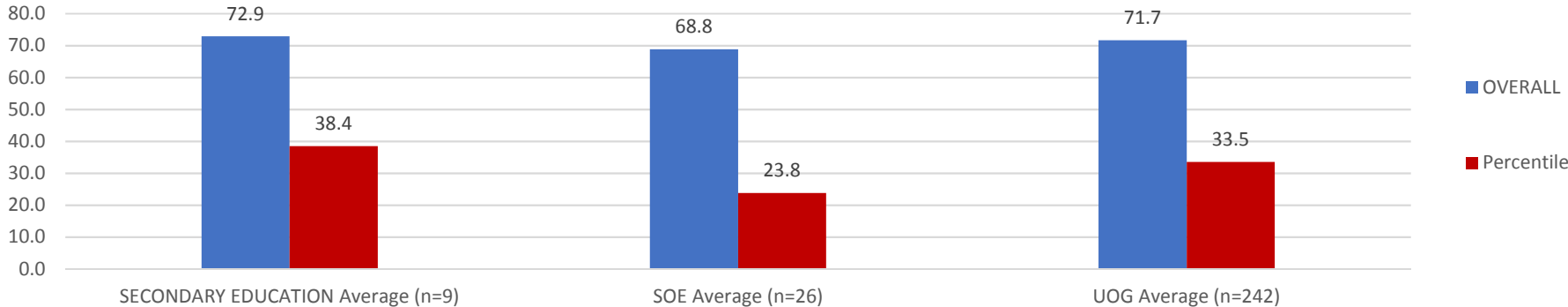


University of Guam
Academic & Student Affairs
Institutional Effectiveness

Critical Thinking Skills Test Overall Results - Secondary Education Graduating Seniors 2017 Spring



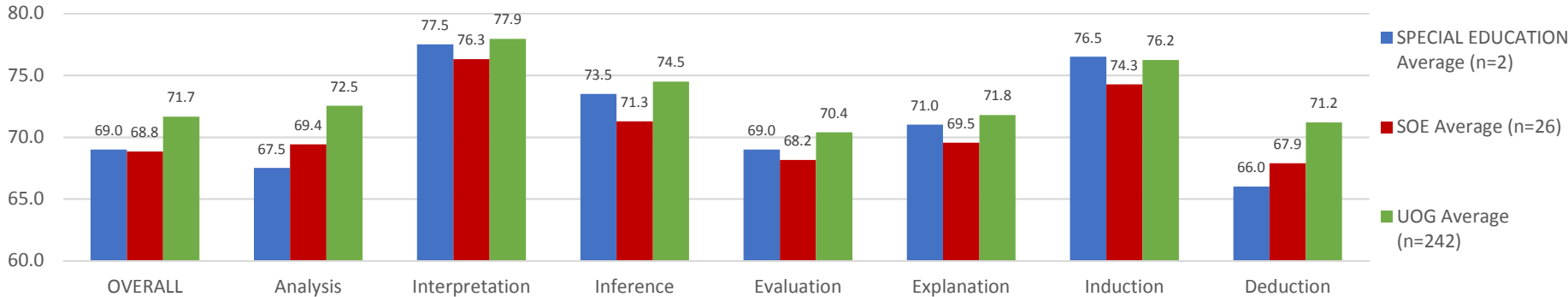
Critical Thinking Skills Test Percentile Results - Secondary Education Graduating Seniors 2017 Spring



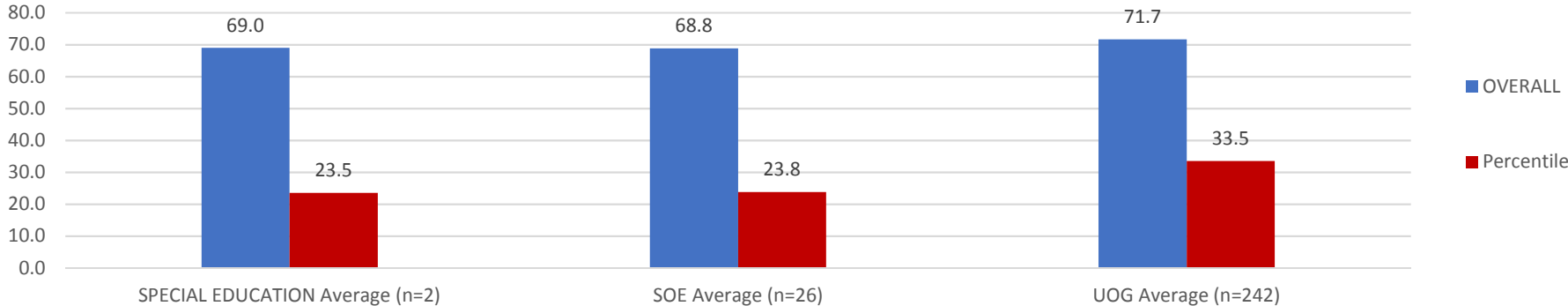


University of Guam
Academic & Student Affairs
Institutional Effectiveness

Critical Thinking Skills Test Overall Results - Special Education Graduating Seniors 2017 Spring



Critical Thinking Skills Test Percentile Results - Special Education Graduating Seniors 2017 Spring



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 skills.

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.