



Math Education Program

Signature Assignment for EDME 695

Research Report

Student Learning Outcome(s) Assessed:

SLO 7: Collect, analyze and interpret data related to research questions.

Description of the Signature Assignment

Based on the research proposals in mathematics education, candidates collect, analyze, and interpret data related to research questions, and write the final research report in the chapter form. The purpose of this final report is to apply knowledge and skills of research to analyze, interpret, and discuss the findings from data collected in teaching practice.

Directions for Students

Write a final research report for your action research project, including: 1) Abstract, 2) Revision of Chapters one to three, 2) Results/Findings, 4) Discussion, and 5) Appendix.

1. Abstract
2. Chapter 1 The statement of the problem and its significance
 - a. Background
 - b. Problem Statement
 - c. Purpose of the Study
 - d. Research Questions
 - e. Operational Definitions
 - f. Assumptions
 - g. Delimitations and Limitations of the Study
 - h. Significance of the Study
 - i. Conclusion
3. Chapter 2. Review of related literature
 - a. Introduction.
 - b. Synthesize and critically analyze the literature.
 - c. Conclusion

4. Chapter 3 Methods
 - a. Site
 - b. Subjects
 - c. Procedures/Intervention
 - d. Data Collection
 - e. Instruments
 - f. Data Analysis
5. Chapter 4 Findings
 - a. Introduction
 - b. Results
 - c. Themes and patterns with illustrative examples
 - d. Tables, Graphs, figures, and art work
6. Chapter 5 Discussion
 - a. Summary of Findings
 - b. Discussion and Interpretation
 - c. Implications
 - d. Recommendations
 - e. Conclusions
7. References
8. Appendix
 - a. Instrument
 - b. Assessment, interview or survey instruments utilized
 - c. Supporting materials
 - d. Samples of student work

Scoring Rubric:

Criteria	4 = Exceeds expectations	3 = Meets expectations	2 = Meets some expectations	1 = Does not meet expectations	0 = Unable to score; incomplete or missing work
Chapter One Introduction	Problem statement is clear and appropriate; purpose is clear; research questions are appropriate, clear, and researchable	Problem statement is clear; purpose is clear; research questions are clear and researchable	Problem statement is not clear; purpose is vague; research questions are vague, but researchable	Problem statement is not appropriate; purpose and research questions are not clear and not researchable	Problem statement, purpose and research are incomplete / missing
Chapter Two Literature Review	Thoroughly synthesizes and analyzes more than eight research studies, and topics closely related to research questions	Adequately synthesizes and analyzes more than eight research studies, and topics related to research questions	Analyzes less than eight research studies, not be able to synthesize, or some topics not related to research questions	Insufficiently analyzes less than eight research studies, and topics not related to research questions	Literature Review are incomplete / missing
Chapter Three Methodology	Clearly describes the context of subjects and related information; thoroughly describes procedures; addresses appropriate research design, instrument, and data collection; appropriate data analysis method is clearly described and justified and analysis method	Describes the context of subjects and related information; describes procedures; addresses appropriate instrument, and data collection; data analysis method is described and justified	Not clearly describes the context of subjects and related information; describes procedures; addresses instrument, and data collection; data analysis method is described, but not justified	Research design, instrument, data collection or analysis method is not appropriate	Research methods is incomplete / missing
Chapter Four Results/ Findings	Clearly explains the results and adequately addresses how to arrive at the findings with quantitative or qualitative evidence and what the results were after the analysis of data; clearly describes themes and patterns and uses illustrative examples; makes extensive use of tables, graphs, figures and artwork.	Explains the results and addresses how to arrive at the findings with quantitative or qualitative evidence and what the results were after the analysis of data; describes themes and patterns and uses illustrative examples. Uses tables, graphs, figures and artwork.	Not clearly explains the results and not clear addresses how to arrive at the findings with evidence and what the results were after the analysis of data; not clearly describes themes and patterns and uses illustrative examples. Uses inappropriate tables, graphs, figures and artwork.	Unable to explain the results and not able to address how to arrive at the findings and what the results were after the analysis of data; not able to describe themes and patterns and uses illustrative examples. Not able to use tables, graphs, figures and artwork.	Research findings incomplete / missing
Chapter Five Discussion	Clearly states a brief overview of the research as well as a summary of the findings; thoroughly discusses and interprets the findings by addressing the importance and links of the findings to other	States a brief overview of the research as well as a summary of the findings; discusses and interprets the findings by addressing the importance and links	Provides a brief overview of the research as well as a summary of the findings; briefly discusses and interprets the findings; provides a limited discussion on	Provides a brief overview of the research as well as a summary of the findings; fails to discuss and interprets the findings; provides a very limited	Discussions incomplete/missing

Criteria	4 = Exceeds expectations	3 = Meets expectations	2 = Meets some expectations	1 = Does not meet expectations	0 = Unable to score; incomplete or missing work
	similar research; clearly addresses implications and makes appropriate recommendations; discusses the related limitations of the study	of the findings to other similar research; addresses implications and makes appropriate recommendations; discusses the limitations of the study	importance and weak link of the findings to other similar research; briefly addresses implications and recommendations; provides little or no description on limitations of the study	discussion on importance and no link of the findings to other similar research; fails addresses implications and recommendations; provides no description on limitations of the study	
Writing and Editing	Writing reflects depth of content; it is coherent, well organized, clear and error free; follows APA format; the style and format appropriate to the assignment..	Writing is clear, but inconsistent; contains few spelling and grammatical errors; has few APA format errors; the style and format appropriate to the assignment.	Writing is not clear, inconsistent; frequent errors in spelling, grammar and/or APA format; Writing does not consistently follow appropriate style and/or format.	Writing is unclear and unorganized; contains numerous errors in spelling, grammar, and/or APA format; Style and/or format are inappropriate for the assignment	Some parts of writing is incomplete / missing
Total					

Evaluation of EDME 695 Signature Assignment
Candidate Name _____

Criteria		Score				
Chapter One	Introduction/Overview/Background	0	1	2	3	4
Chapter Two	Literature Review	0	1	2	3	4
Chapter Three	Methodology	0	1	2	3	4
Chapter Four	Results/Findings	0	1	2	3	4
Chapter Five	Discussion	0	1	2	3	4
Writing and Editing		0	1	2	3	4

Legend

Total Points	College of Education Assessment Scale Equivalent
22-24	4 (Exceeds Expectations)
18-21	3 (Meets Expectations)
12-17	2 (Meets Some Expectations)
6-11	1 (Does Not Meet Expectations)
0-5	0 (Can't Score)