



Math Education Program
Signature Assignment for EDME 502
Research Proposal

Student Learning Outcome(s) Assessed:

SLO 6: Design research in their own teaching settings relating to mathematics education.

Description of the Signature Assignment

Candidates develop a research proposal in their own teaching settings relating to mathematics education. The purpose of this research proposal is to apply knowledge and skills of research to design a research plan directly relating to mathematics teaching or learning.

Directions for Students

Develop a research proposal that is related to your math teaching or student learning, including: 1) The statement of the problem and its significance, 2) Review of related literature, and 3) Methods. This will be the first three chapters of your action research project. The purpose of this research proposal is to apply knowledge and skills of research to design a research plan directly relating to mathematics teaching or learning.

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
2. Review of related literature
 - a. Introduction.
 - b. Synthesize and critically analyze the literature.
 - c. Conclusion

3. Methods

- a. Site
- b. Subjects
- c. Procedures/Intervention
- d. Data Collection
- e. Instruments
- f. Data Analysis

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
Purpose and Research	Purpose is clear; research questions are appropriate, clear, and measurable	Purpose is clear; research questions are clear and measurable	Purpose is vague; research questions are vague, but measurable	Purpose and research questions are not clear and not measurable	Purpose and research are incomplete / missing
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
Research Design	Research design is appropriate and clear	Research design is clearly stated	Research design is not clearly stated	Research design is not appropriate	Research design is incomplete / missing
Subjects	Clearly describes subjects with detailed demographic information	Describes subjects and includes some demographic information	Describes subjects and includes minimal demographic information	Does not clearly describe subjects and does not include demographic information	Subjects and demographic information are incomplete / missing
Procedure	Thoroughly describes procedures or intervention strategies	Adequately describes procedures or intervention strategies	Describes some procedures or intervention strategies	Describes minimal procedures or intervention strategies	Procedures or intervention strategies are incomplete / missing
Data Collection	Clearly describes appropriate data collection methods	Describes data collection methods	Describes minimal data collection methods	Describes inappropriate data collection methods	Data collection methods are incomplete / missing
Instrument	Identifies or develops appropriate instrument and clearly describes it	Identifies or develops instrument but does not clearly describe it	Identifies or develops inappropriate instrument but clearly describes it	Identifies or develops inappropriate instrument and does not clearly describe it	Instrument is incomplete / missing
Data Analysis	Appropriate data analysis method is clearly described and justified	Data analysis method is described, but not justified	Data analysis method is described and justified minimally	Inappropriate data analysis method is described and justified	Data analysis method is incomplete / missing
Writing	Writing is organized, clear and error free, and follows APA format	Writing is clear, but inconsistent, follows APA format	Writing is not clear, or not follow APA format	Writing is unclear and unorganized with errors in grammar and APA format	Some parts of writing is incomplete / missing
Total					

Evaluation of EDME 504 Signature Assignment

Candidate Name _____

Criteria	Score				
Purpose and Research	0	1	2	3	4
Literature Review	0	1	2	3	4
Research Design	0	1	2	3	4
Subjects	0	1	2	3	4
Procedure	0	1	2	3	4
Data Collection	0	1	2	3	4
Instrument	0	1	2	3	4
Data Analysis	0	1	2	3	4
Writing	0	1	2	3	4

Legend

Total Points	College of Education Assessment Scale Equivalent
31-36	4 (Exceeds Expectations)
24-30	3 (Meets Expectations)
17-23	2 (Meets Some Expectations)
10-16	1 (Does Not Meet Expectations)
0-9	0 (Can't Score)