

EVALUATING THE IMPLEMENTATION OF TECHNOLOGY STANDARDS IN MATHEMATICS EDUCATION COURSES

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DESCRIPTION

This poster presentation will describe a research project that evaluates the degree to which International Society for Technology in Education (ISTE, 2001) Teacher Performance Indicators based on National Education Technology Standards (NETS) for teachers are met through technology integration into mathematics education courses in a Preparing Tomorrow's Teachers to Use Technology (PT3) project. The study compares faculty perceptions of their intended curriculum with student perceptions of the delivered curriculum through the integration of technology.

Restructuring courses to include the integration of technology into the curriculum is of particular concern in the Preparing Tomorrow's Teachers to Use Technology (PT3) project at the University of Arkansas at Little Rock. In order to address this concern, the use of technology must be included as a standard means of teaching and learning in all areas of content and not confined to business or computer classes.

This research project measures the following objective: Using the ISTE (2001) Teacher Performance Indicators based on the National Educational Technology Standards (NETS) for teachers, how do faculty perceptions of their intended curriculum compare with student perceptions of their received curriculum on integration of technology into restructured courses. Faculty and students in mathematics education courses were asked to complete a survey, Course Matrix Planning Document, based on the ISTE (2001) Teacher Performance Indicators. The survey measures the degree to which ISTE Teacher Performance Indicators for teachers are met through technology integration into mathematics education courses in a PT3 project.

THE POSTER AND POWERPOINT DISPLAY

The poster and PowerPoint presentation will include a visual display of: the fourteen ISTE standards to be measured, a Course Matrix Planning Document used as a rubric for collecting data from students and faculty, tables reporting results from four mathematics education classes, findings of the study, and the future. Handouts of the visual displays will be available.