



Announcing

A Mathematics Seminar

May 1, 2009 at 1:00 pm

JGH 203

at The University of Southern Mississippi

Speaker: Dohyoung Ryang

Department of Mathematics

The University of Southern Mississippi, Gulf Coast

Title: Self-Efficacy in Mathematics Education

Abstract:

Self-efficacy is a huge theoretical construct to explain an individual person's motive and behavior in social contexts. It was conceptualized by Albert Bandura (1977, 1986, 1997), a prominent cognitive psychologist. Educational psychologists and researchers have adopted this construct into the world of education to describe complex issues of teaching and learning. Researches have been shown that self-efficacy is the most critical factor other than constructs to produce better performances and outcomes in educational settings (Gibson & Dembo, 1984; Pajares, 1996; Tschannen-Moran & Hoy, 2001). There are three types of self-efficacy in education: Teachers' teaching efficacy, students' learning efficacy, and institutional collective efficacy. However, collective efficacy was very recently inquired to study. No experimental research has been reported as of today.

This presentation defines teaching and learning efficacy in mathematics education, and introduces the current issues in the study of self-efficacy: Specificity, changeability, measure accuracy, and culture effect. Then, the presenter discusses his research project, Mathematics Teaching-Efficacy among Korean Preservice Teachers, across which all issues mentioned above are addressed. The topics of this research project include analysis of the existed measure, development of a new measure, and analysis of mathematics teaching efficacy. Additionally, another research project dealing with students' mathematics efficacy is addressed.

Further Information

Further details and information about this and other departmental activities is available online at http://www.math.usm.edu/bulletin_board/.