

1064-97-284

**Nahid A. Erfan\*** ([erfan.1@nd.edu](mailto:erfan.1@nd.edu)), University of Notre Dame, First Year of Studies, 239 Coleman Morse Center, Notre Dame, IN 46556. *Supporting deep learning in mathematics outside the classroom.*

In this talk we will address issues of learning, academic environment and support services in an attempt to uncover ways in which universities can promote mathematical understanding for all by fostering deep learning. Deep learning involves analysis, synthesis and evaluation of learning, as opposed to mere memorization. Certain classroom environments, such as those that are more task oriented and collaborative, tend to promote deep learning. Additionally, courses in which assessments also require deep learning tend to encourage utilization of deep learning study strategies. At the same time, academic support services can facilitate deep learning through various programs. Considering the fact that students enter college with a variety of high-school math backgrounds, the Learning Resource Center (LRC) at the University of Notre Dame is supporting deep learning in mathematics outside the classroom through collaborative learning groups and by developing "just in time activities" to fill the gaps in students' mathematical background. The talk will conclude with a discussion about our experiences at LRC as we strive to create a learning environment that enables students to be more successful in their courses, but also ultimately help them be more successful beyond graduation. (Received September 13, 2010)