

1077-I1-2853

**Joyati Debnath\*** (jdebnath@winona.edu), Dept. of Mathematics and Statistics, Winona State University, Winona, MN 55987. *Mathematical Thinking as a gateway to Undergraduate Research.*

Mathematics modeling should be an integral part of all mathematics courses as students are more motivated when they experience a real-life problem in their course work. Along the same line, an undergraduate research gives students to create their own model and address the problem in hand. The speaker will discuss how an upper division mathematics course was created and implemented to address the 2004 MAA CUPM Curriculum Guide recommendation regarding “analysis of real-life situations and construct appropriate mathematical models” at Winona State University. (Received September 22, 2011)