

1067-O1-129 **Petronela Radu*** (pradu@math.unl.edu), Lincoln, NE 68588, and **Stephen Hartke**. *Math in the City: A hands-on learning experience in mathematical modeling.*

Math in the City is an interdisciplinary course in which students engage in a hands-on learning experience using mathematical modeling to understand current major societal issues of local and national interest. The course is run in collaboration with local businesses and research centers with students creating and analyzing models based on real data. In this talk I will focus on the structure and development of the course, the educational benefits, and also discuss some of the challenges that we have encountered. The course will be further developed while supported by a STEM (former CCLI) NSF award and it will be disseminated to other colleges and universities. (Received July 26, 2010)