

1106-G5-1597 **Helmut Knaust*** (hknaust@utep.edu), Department of Mathematical Sciences, The University of Texas at El Paso, El Paso, TX 79968. *Exploration and Inquiry in an Introductory Course for Mathematics Majors.*

My department is offering an introductory course for Mathematics majors, modeling Mathematics as a laboratory science. The course, based on material developed at Mount Holyoke College, requires only pre-calculus and co-enrollment in Calculus I.

Students in small groups explore several rich mathematical topics on their own. They perform mathematical experiments (with the help of a computer algebra system), formulate, test and refine conjectures, and finally try to prove their conjectures. At the end of each two week laboratory, the student teams write up their findings in a laboratory report. (Received September 14, 2014)