

Meeting: 1135, San Diego, California, MCP FLO N5, MAA Session on Integrating Research into the Undergraduate Classroom

Helmut Knaust* (hknaust@utep.edu), Department of Mathematical Sciences, The University of Texas at El Paso, El Paso, TX 79968. *Guided Inquiry for Undergraduates in a Classroom Setting.*

My department offers a freshman/sophomore level course, modeling Mathematics research as a laboratory science. The course is based on materials developed at Mount Holyoke College and requires only co-enrollment in Calculus I.

Small student teams 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 some of their conjectures. At the end of each two week laboratory, the student teams write up their findings in a laboratory report. (Received September 27, 2017)

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