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37614. *Undergraduate Research for all Math Majors: Reality or Pipe Dream?* Preliminary report.

For the last four years, all Mathematics Majors at East Tennessee State University have been required to conduct undergraduate research as part of their graduation requirements. Three credits of MATH 4010 *Undergraduate Research* accordingly are built into the 120 hour graduation schedule. This talk will give examples of successfully completed research projects, but focus primarily on the larger question, namely “are all math majors capable of engaging in meaningful undergraduate research?” Our answer is a resounding “yes,” provided one allows for levels of activity that range from submission of a new sequence to Neil Sloan’s Integer Sequences website, to submitting a paper to a refereed journal. The key benefit is the immense sense of ownership that students (at all levels of preparation) feel about their project. The Q&A session following this talk will provide ample opportunities for audience members to argue alternative points of view. (Received September 07, 2007)