

1046-Z1-112

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Integrating technology into the college classroom has recently received much attention from the National Center for Academic Transformation (NCAT). Under their roadmap to redesign (R2R) criteria, mathematics classrooms at many universities have incorporated new approaches to student learning. This paper discusses each of the major components of designing a new modular, technology-based curriculum, the development of a mathematics resource center to support the curriculum, and the first year results of the implementation of R2R at our university. (Received July 23, 2008)