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Susan E Thompson* (sthompson@otterbein.edu), Mathematical Sciences Department, Otterbein University, 1 S Grove St, Westerville, OH 43081. *Flexible Options to Prepare Students for University-Level Mathematics*. Preliminary report.

Can the use of an adaptive learning system in delivering intermediate algebra to college students successfully prepare them for their university-wide mathematics requirement? Our small, private, comprehensive institution has used ALEKS [Assessment and LEarning in Knowledge Spaces], an adaptive learning system that individualizes assessment and learning, as an option for entering students to improve mathematics placement in the summer prior to matriculation for the past six years, with good success. Unfortunately, not all incoming students are able to use or complete this option due to summer work and family commitments, internet access problems, or instructional support issues. In an effort to offer this flexible, individualized instruction with technological and instructional support during the academic year, we are currently piloting use of ALEKS as the teaching/learning tool in a flexible semester option. Information presented at this session will include results from the summer offerings, including success rates in subsequent courses, and a description of the model employed for the fall semester option, with preliminary results. (Received September 21, 2012)