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Jan Orton Case* (jcase@jsu.edu), JSU MCIS Department, 700 Pelham Road North,
Jacksonville, AL 36265. *A Personalized Learning Approach to Developmental Mathematics.*

Seeking to improve the success rate of our developmental mathematics program, Jacksonville State University investigated learning materials developed by the National Repository of Online Courses (NROC) in 2011. NROC is a non-profit open educational resource project of The Monterey Institute of Technology and Education. The materials consist of videos, practice problems, assessment and an ebook, all of which are provided at no cost to the students. An institutional membership fee allows integration with the university's learning management system. JSU conducted a study of the materials when used in three different classroom contexts: (1) as optional, supplementary lessons, (2) as graded homework, and (3) in a flipped classroom environment. In each, the frequency of use of the materials correlated positively with higher test scores. Encouraged by these results, JSU is in a yearlong process of creating a personalized learning approach for all of our developmental mathematics courses. Partners in creating the new model include administrators, faculty, the mathematics curriculum committee, and existing university student support organizations. This paper summarizes the changes made and the lessons learned.

Find more information at: <http://nrocmath.org/> and <http://edready.org/>. (Received September 11, 2014)