

1046-F1-1302

Joy Moore* (moorej12@xavier.edu), 112 Hinkle Hall, Mail Location 4441, Xavier University, Cincinnati, OH 45207-4441. *Successfully Transitioning Under-Prepared First-Year Pre-Calculus Students.*

The Emerging Ethnic Engineers Program (E3) is a comprehensive 5-year program dedicated to the recruitment, retention, academic and professional success of underrepresented ethnic minority students in the College of Engineering at the University of Cincinnati. One component of the program is the Cooperative Learning Pre-Calculus Program which includes an 8-week Summer Bridge Program and a First-Year supplement course experience. Grounded in the theoretical framework of social constructivism, this paper will detail aspects of the Summer Bridge Program and the First-Year experience that have been deemed effective by both the students and the resultant retention and academic success rates. E3 students' academic performance will be compared to other cooperative learning students as well as the general population of pre-calculus students. Collaborative efforts between program directors, mathematics faculty, and student support services will also be discussed. (Received September 15, 2008)