

1023-G1-576

Genevieve M. Knight and **Kimberly Smith Burton*** (ksmith@uncfsu.edu), Math/Science Education Center, SBE 328, 1200 Murchison Road, Fayetteville, NC 28301. *Meeting the Challenge for the Preparation of Preservice Teachers of Middle School Mathematics – The Fayetteville State University (FSU) Answer.*

School Mathematics is a continuous process beginning at the Pre-K level with crucial transition junctions between elementary and middle grades and middle and high school grades. Historically the 8th grade level has been cited as the transition from arithmetic to algebra. As one examines the Conference Board of the Mathematical Sciences(CBMS)recommendations for the Mathematical Education of Teachers(MET 2001)and the NCTM(2000)Principles and Standards of School Mathematics(PSSM), the mathematics content for teachers to conceptually understand and to be able to teach include topics such as algebra, measurement, geometry, statistics, probability beginning at the Pre-K level. Using the MET and PSSM, documents and now the Curriculum Focal Points for Kindergarten through Grade 8 Mathematics: A Quest for Coherence (2006), we will share the FSU Program now being implemented and a redesign plan to answer the challenges of the economic climate of a competitive changing world. 1.The Big Picture: Design, Structure, and Descriptions. NCTM and NCDPI Standards, the Program,Activities, Courses, and Syllabi. 2.Exhibits: Students' Work, Instructional Activities, and Lessons Learned. The format of the redesign presentation is the same as the current program presentation. (Received September 18, 2006)