

1023-G1-1378 **Kathleen D. Lopez*** (klopez@louisiana.edu), Department of Mathematics, University of Louisiana at Lafayette, P. O. Box 41010, Lafayette, LA 70504. *A Problem-Solving Course for Pre-Service Middle School Teachers.*

At the University of Louisiana at Lafayette, pre-service teachers seeking middle school certification in mathematics take a six-course sequence of content courses. These mathematics courses were designed to foster a deep understanding of grade school mathematics, as is recommended in the CBMS MET document. The sixth course in this sequence, Proportional Reasoning and Problem-Solving for Teachers, is intended as a capstone course for this sequence. The main goals of the course are to emphasize and connect the big ideas of grade school mathematics and to enable the pre-service teachers to become confident problem solvers who can communicate mathematics effectively. The structure of the course and its relation to the other courses, assignments, and assessment as well as teaching strategies will be discussed. (Received September 25, 2006)