

1056-N1-1643

**Agnes M Rash\*** ([arash@sju.edu](mailto:arash@sju.edu)), Dr. Agnes M. Rash, Mathematics Department, Saint Joseph's University, Philadelphia, PA 19131. *An Innovative Course in Elementary Number Theory for Preservice Teachers*. Preliminary report.

The new requirements for elementary school teacher certification in the Commonwealth of Pennsylvania have very specific recommendations for the content of the mathematics courses for elementary school teachers. Among these is a recommendation for a course for preservice teachers of middle school (grades four through eight) that includes knowledge of the basic concepts of number theory. The Whole Truth about Whole Numbers is a newly developed course to serve the needs of future elementary school teachers. A preliminary version of the course is being offered in Fall 2009 and will be evaluated with respect to meeting the goals set forth for the knowledge and attitudes of elementary school teachers.

Students will become familiar with elementary theoretical concepts in mathematics. In addition, students will enhance their problem-solving skills, elementary algebra skills and their writing of mathematics solutions and proofs. This talk will discuss the topics included in the course, the learning objectives, the delivery of the course content, and course outcomes including assessment of student learning and attitudes. (Received September 22, 2009)