

1010-97-7

William C Bauldry* (BauldryWC@AppState.edu), Department of Mathematical Sciences, Appalachian State University, Boone, NC 28608. *The Role of Proof and Proof Classes in the Mathematics Education of Teachers.*

We will discuss the necessary role of proof in the preparation of mathematics teachers. The prospective teachers must come to see proof as the heart of pure mathematics, not something to a fear and avoid. We will include material and references from the NCTM Standards, the CUPM Programs document, and the CRAFTY Curriculum Foundations project demonstrating the need for and uses of proof throughout school and collegiate mathematics. We will finish with an outline of a formal logic orientated "Introduction to Proof" course that has been developed and works successfully at Appalachian. (Received May 18, 2005)