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Margaret L Morrow* (margaret.morrow@plattsburgh.edu), Mathematics Department,
Plattsburgh SUNY, Broad St, Plattsburgh, NY 12901. *Experiencing Geometry in diverse ways in
one semester.*

Abstract: I will describe an upper division geometry course that satisfies certification requirements for secondary education mathematics majors. The course is based on David Henderson's approach as presented in the text "Experiencing Geometry on Sphere and Plane" (Prentice Hall 1996). Henderson received NSF support to develop this material and disseminate the ideas. In this talk I will describe how I adapted Henderson's approach to our local context. In particular I will describe how I integrated Henderson's approach, the radically different topic of an axiom based exploration of hyperbolic geometry, and Geometer's sketchpad software into a coherent one semester course. (Received September 15, 2000)