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Kristen Joy Schemmerhorn* (kschemmerhorn@dom.edu), Dominican University, 7900 W Division St, River Forest, IL 60305. *Excursions on the Sphere: Investigation of the Effectiveness of Spherical Geometry to Deepen Understanding of Euclidean Geometry*. Preliminary report.

Spherical geometry is one of many non-Euclidean geometries one can study in a Modern Geometry course. In this project, I examine whether, and the extent to which, discovery-based inquiry activities in spherical geometry will deepen student understanding of Euclidean geometry. This will be accomplished through the use of pretest/post-test data along with qualitative self-reflection from the students. (Received September 26, 2012)