1086-H5-2619   **Eric J Kostelich*** (`kostelich@asu.edu`), School of Mathematical & Statistical Sciences, Arizona State University, Tempe, AZ 85287-1804. *: Development of an undergraduate course in mathematics and climate.* Preliminary report.

This talk describes the content of an undergraduate course in mathematics and climate to be offered at Arizona State University. The target audience is second- and third-year mathematics majors (i.e., those who have completed the usual course sequence in calculus and ordinarydifferential equations). Topics include the basics of chaos (using Lorenz's 3-dimensional system as a model); the effects of uncertainties in data and parameters; and development of simple box models of the climate system. (Received September 25, 2012)