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The “Shapes of Nature E-Coursebook” contains a set of in-class activities, reading assignments, worksheets, and projects at local museums; the goal of these materials is to enhance students’ understanding of fundamental causes of natural phenomenon. The coursebook is recently developed by Annalisa Crannell (Mathematics), Roger Thomas (Geosciences), and Jack Stewart (‘03). In this presentation, we will demonstrate sample materials from the three chapters which are the main focus of the course: “pattern formation”, “scale and growth”, and “fractal geometry.” The E-Coursebook is available at <http://www.fandm.edu/academics/foundations/NTW114>. (Received August 01, 2000)