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Topics in dynamical systems lend themselves well to student discussion and discovery. In this presentation we will discuss course material developed jointly with A. Johnson and A. Sahin that encourages active student participation via small group discussion and discoveries, group and individual presentations, and written project reports. This material has been piloted at Drew University, Swarthmore College, DePaul University, Mt. Holyoke College and George Washington University. (Received July 07, 2005)