

1077-F1-711 **Edward Early*** (edwarde@stedwards.edu), St. Edward's University, Austin, TX 78704. *Discrete Dynamical Fibonacci.*

Discrete dynamical systems provide a powerful application of eigenvalues and eigenvectors to a plethora of modeling problems. They also provide an elegant way of deriving the explicit formula for Fibonacci numbers. Come see how beautifully it works when set up properly (and how one small misstep can sabotage the lesson plan!). (Received September 11, 2011)