

1014-ZC-1328      **Mike Olinick\*** (molinick@middlebury.edu). *Modeling the predator-prey relationship.*

A basic assumption of the classic Lotka-Volterra predator-prey model is that each species experiences exponential growth or decay in the absence of the other. Recent extensions of this model investigate logistic growth of one species when the other species is absent, time delays in response by one species to population changes in the other, and multiple species interactions. A survey of consequences and predictions of the original and the modified models will be presented. (Received September 27, 2005)