1023-92-767 **Azmy S Ackleh*** (`ackleh@louisiana.edu`), Department of Mathematics, University of Louisiana at Lafayette, Lafayette, LA 705041010. *A Mathematical Biology Program at the University of Louisiana: Curriculum Development and Research.*

An undergraduate Mathematical Biology program was established at the University of Louisiana at Lafayette. The new courses that are being developed as part of this program will be presented and the research projects that the students participate in will be discussed. One of the research projects that the talk will focus on concerns monitoring the green tree frog (*Hyla cinerea*) population around ponds located at the National Wetlands Research Center (NWRC) and the National Marine Fisheries Service complex (NMFC). From June to September of 2004-2006, *H. cinerea* were collected once a week at these ponds, measured, and marked. Data from the captures were used to estimate the population size of the frogs at the NWRC/NMFC complex. The results indicate that the data period can be split into two time periods: the first during and the second after the breeding season. This is corroborated by the structured population models that were developed to describe the dynamics of this population. (Received September 21, 2006)