

1125-92-3141      **Ariel Cintron-Arias\*** ([cintronarias@etsu.edu](mailto:cintronarias@etsu.edu)), Department of Mathematics and Statistics,  
Box 70663, East Tennessee State University, Johnson City, TN 37614-0663. *Student Life Tables:  
Case Study for a Regional University*. Preliminary report.

Longitudinal datasets of enrollment for a regional public university, together with records at the state level, are employed here. We implement matrix population models (e.g. Leslie) in the context of mathematical demography, while inspired by four measurements of enrollment corresponding to student classification: freshman, sophomore, junior, and senior.

Matrix model parameters are estimated with ordinary least squares and bootstrap sampling methods. Then, the parameter estimates are transformed to approximate student life table functions that include: student life expectancy, probability of school departure, average number of years in each school group (e.g. sophomore). (Received September 21, 2016)