

*Department of Mathematical and Physical Sciences Presents*

## ***The 2008 Colloquium***

**Wednesday**

**Sept. 24, 5:00-6:00pm**

**Room 208, Lamar Bruni Vegara Science Center**

**Free and Open to Public**

**Dr. Fernando G. Quintana**

**Associate Professor of Biology**

**Logistic Regression in Biology Science**

**–Principles and Applications**

### **Abstract**

The objective of this presentation is to discuss an approach to introducing logistic regression to biology and other science students that facilitates its understanding, application, and interpretation. The proposed instruction approach is based on: i) the proposal of a statistical model to obtain a randomly generated data set maintaining the assumptions of the logistic regression model, ii) to construct a data set, iii) to analyze the behavior of the constructed data set under the assumptions of the logistic regression, iv) to fit a logistic regression model to the generated data set, v) to analyze and interpret the results, and v) to compare the behavior of the logistic regression functions of the randomly created data and the prediction with the model.

**Refreshment Starts at 4:30pm**

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