

Fall 2016 Course Announcement:

GLY 6862 – Quantitative Methods in Earth Sciences

Instructor: Dr. Peter N. Adams, Associate Professor, Geological Sciences

Email: adamsp@ufl.edu

Meeting Time: Tues. and Thurs., Periods 4-5 (10:40am – 12:35pm)

Meeting Location: CSE E231 Testing and Active Learning Center

Course Description: This graduate course is designed to provide students in the natural sciences and engineering with some basic skills in quantitative methods and data analysis using MATLAB as a programming language. Topics will include: Fundamental Statistics, Basic Programming Skills, Data Formats, Matrices, Regression, Classification (PCA/EOF), Time Series Analysis, and Spatial Data Analysis and Visualization. Topics will be presented in an active learning environment with students gaining programming practice through weekly coding assignments during the first $\frac{3}{4}$ of the course. The final $\frac{1}{4}$ will consist of students applying skills (developed during the course) to individual research projects that may constitute MS or PhD research. Advanced undergraduates with an interest in MATLAB programming are also encouraged to contact the instructor to take the course for credit.

