

STATISTICS 4581
QUANTITATIVE METHODS IN BIOLOGY

4581 Quantitative Methods in Biology (same as Biology 4605 and the former Statistics 4605) is quantitative reasoning using verbal, graphical and statistical models of scaled quantities (units and dimensions). Exploratory and confirmatory analysis of field and laboratory data. Hypothesis testing, including randomization tests. Topics include the general linear model (t-tests, ancova etc), correlation, autocorrelation, geographic statistics, estimates of population size and multivariate methods. Three hour laboratory period each week.

Prerequisite: Statistics 2550

Note: Credit will be awarded for at most one of Biology 4605 and the former Statistics 4605.

Offered: *Contact the Deputy Head (Statistics) in the Department of Mathematics and Statistics for information regarding the scheduling of this course.*