

STAT4355 - Applied Linear Models

[STAT 4355](#) Applied Linear Models (3 semester credit hours) Introduction to linear statistical models and their application to empirical data. Topics include linear and logistic regression; multiple regression; diagnostic measures; detection of outliers and influential observations; variable selection; one- and two-way ANOVA; analysis of covariance; model fitting and validation using the statistical programming language R. Prerequisite: [STAT 3355](#) or instructor consent required. (3-0) Y