STAT 578 – Regression Analysis

**Instructor**  Professor Keumhee Chough  
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**Classes**  MWF 10-11AM

**Office Hours**  11-11:30 Every Week day

**Course Web**  Lecture notes, assignments and other materials will be managed via eClass

**Prerequisite**  An undergraduate degree in Statistics or related exposure to courses equivalent to STAT378 and a 400-level statistics course are required at the minimum.

**Assessment**  The course grade will be based on Assignments (20%), Project (10%), Mid-term (30%) and a Final exam (40%).

**Course Description**

The course will include such topics as multiple linear regression, ordinary and generalized least squares, partial and multiple correlation, regression diagnostics, collinearity, model building, nonlinear regression. Other selected topics: robust and nonparametric regression, measurement error models.