

## STAT 615

### Regression and Linear Models

#### Sample Course Contents

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Course Coverage (subject to change!)

- Simple Linear Regression
- Multiple Linear Regression
- Generalized Least Squares
- Weighted Least Squares
- Transformations
- Variable Selection Methods
- Robust Regression
- Analysis of Variance
- Analysis of Covariance
- Quantile Regression
- Introduction to Computationally Intensive Methods
- Introduction to Generalized Linear Models

Software: We will work with **R**: [www.r-project.org](http://www.r-project.org)