

# STAT2160: STATISTICS II

**Lecture:** Monday M789

**Instructor:** Nan-Jung Hsu [njhsu@stat.nthu.edu.tw]

**Textbook:**

1. Mathematical Statistics and Data Analysis (3rd), John A. Rice.
2. An Introduction to Statistical Learning, by James-Witten-Hastie-Tibshirani.

**Grading:** midterm (30%), final (30%), hw+lab (40%)

**Course Materials:** <http://lms.nthu.edu.tw>

**TA and Office Hours:** TBA

**Topics:**

Maximum Likelihood Estimation

Hypothesis Testing

ANOVA

Regression and Least Squares

Model Selection and Diagnostics

Time Series Analysis

Classification

Clustering

Dimension Reduction

**Software:**

R: <http://www.r-project.org>

RStudio: <http://rstudio.org/>