

Subject: **統計學II (Statistics II)**

Instructor: **Cheng-Ying Yang, Ph.D.**

Meeting hours: Friday 14:20-17:10

Textbook: David Anderson, Dennis Sweeney and J.C. Chen, *Statistics for Business and Economics*, 9th ed., 2006, Thomson

Contents:

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| 1. Estimation- | Sampling Distribution Central Limit Theorem Confidence Interval |
| 2. Hypothesis Tests I | Type I Error Type II Error Critical Value Test Value for Large Sample, Small Sample Decision Rule |
| 3. Hypothesis Tests II | Two Sample Test Proportion, Mean and Variance Comparison |
| 4. Analysis of Variance | ANOVA Randomized Model Multiple Comparisons |
| 5. Bivariate Regression | Correlation Analysis Linear Regression Model Ordinary Least Squares Formulas Variance Analysis Multiple Regression |

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| Grading: | Midterm (x2) | 30% |
| | Final | 30% |
| | Homework; Participation | 10% |

Reference:

1. David P. Doane and Lori E. Seward, *Applied Statistics in Business and Economics*, McGraw-Hill, 2007
2. Roy D. Yates, David J. Goodman, *Probability and Stochastic Processes* 2nd ed., 2006, Wiley
3. 管中閔, *統計學: 觀念與方法* 二版, 2004, 華泰書局
4. 朱晉德譯, *商用統計學*, 2007, 藍海文化