台北大學 休閒運動與管理學系 學士班
統計學 (Statistics)

林 建 幣
C.F. Jeff Lin, MD, PhD.
台北大學統計系助理教授
e-mail: cflin@mail.ntpu.edu.tw
http://web.ntpu.edu.tw/~cflin

Fall, 2004

為何要學統計學？

• Time: Monday, 8:10am–10:00am
• Classroom: 商學大樓 1F15
• 助教:
• Textbook: Steve Sselvin (2004), Biostatistics, Prentice Hall.
• Office Hours: Monday, 10:00am–12:00am (make appointment by e-mail first)

統計系課業補導時間

Evaluation

– Homework 30%
– 2 Mid-term Exam 40% (each 20%)
– Final Exam 50% (cumulative)
– 上課缺席 1 小時, 每次扣學期成績總分 1 分, 上課缺席 6 小時, 學期成績
  結算總分 0 分; 上課遲到 (上課鐘響比教師晚到 20 分), 算上課缺席 1 小時
– 作業遲交, 該次作業 0 分, 未交作業, 每次再扣學期成績結算總分 2 分
Basic Statistics

1. Data, Variable, Sample, Population and Design
2. Summary Statistics: Descriptive Statistics
4. Probability, Distribution
5. Random Variables, Distribution, Expectation, Variance
6. Special Parametric Families of Discrete Distribution
7. Special Parametric Families of Continuous Distribution
9. Sampling and sampling Distributions
10. Point Estimation
11. Parametric Interval Estimation
12. Hypothesis Testing
13. One sample Testing and Inference: Continuous Variables
14. One Sample Testing and Inference: Discrete Variables
15. Continuous Data Analysis:
   Two Sample Testing: Two-Sample Student t Test
   Two Sample Testing: Paired t Test
16. Categorical Data Analysis:
   Two Sample Testing (2x2 Tables): Chi-Square Test, Fishes’s Exact Test
   RxC Contingency Tables,
   Stratified Categorical Data: Mantel-Haenzsel Test
17. Nonparametric Methods:
   Sign Test, Wilcoxon’s Signed-Rank Test, Wilcoxon Rank-Sum Test
Feel free to ask questions during class; your questions are an important part of this course. Few students are able to master the material without keeping up on a regular basis. I welcome you to the class and hope that you have an enjoyable and successful semester!

References


