Statistics (I) 2023 Fall

My Office: TSMC ROOM 750
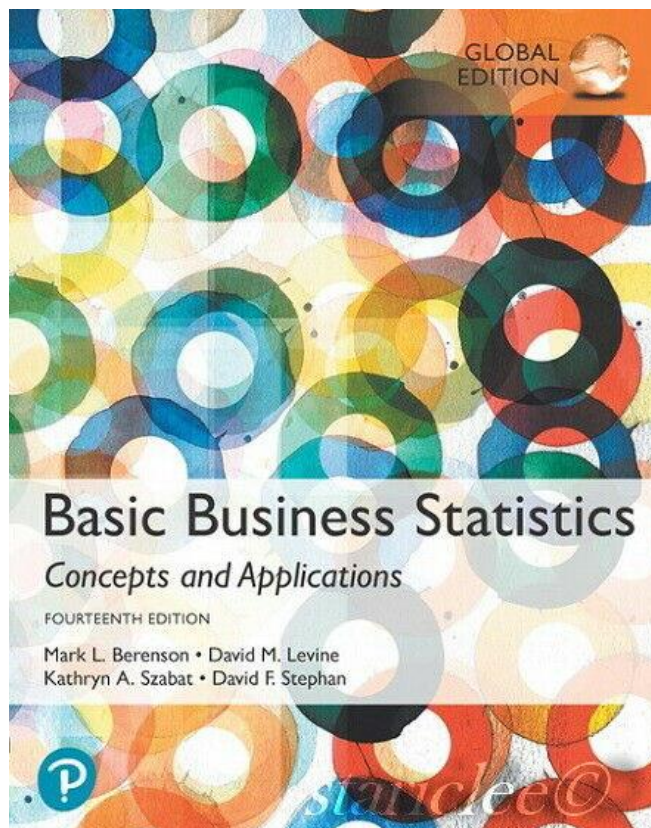Email:styu@mx.nthu.edu.tw

1. objective：

The main objective of this course is to provide students the fundamental probability theory and the necessary tools for the analysis of actual and realistic data. To this aim, the course will cover the following topics: numerical descriptive measures, basic probability, some important distributions, sampling distributions, confidence interval estimation, hypothesis testing, and simple linear regression.

2.TEXTBOOKS:

Berenson et al., (2023): Basic Business Statistics: Concepts and Applications, 14th edition, Pearson. (14 edition 華泰文化代理)
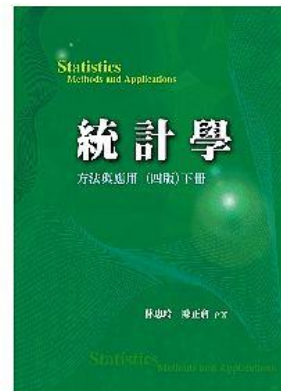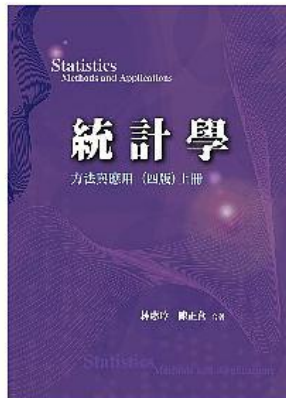

(本連結價格已是團購價,學生無須湊人數
https://bit.ly/3qoz6rM

參考書籍
林惠玲、陳正倉，2012，統計學：方法與應用，4 版，双葉書廊。

4. Software:

Microsoft Excel

5. Grading
考試時以任何形式的作弊 (包括，假造請假單、假造就診記錄、假造家中有急事、…
等)，本科目學期成績以零分計算。

上課點名 3 次(出席率): 6%
第一次段考: 30% (chapter 1-4)
第二次段考:30%(chapter5-6)
期末考: 34% (chapter 7-8)

6. COURSE OUTLINE

Chapter 1: An Introduction to Business Statistics
Chapter 2: Descriptive Statistics: Tabular and Graphical Methods
Chapter 3: Numerical Descriptive Measures
Chapter 4: Basic probability
Chapter 5: Some important discrete probability distributions
Chapter 6: The normal distribution and other important continuous
            probability distributions
Chapter 7: Sampling and sampling distributions
Chapter 8: Confidence interval estimation

Spring course (Feb. – June)

Chapter 9: Hypothesis Testing with One Sample

Chapter 10: Hypothesis Testing with Two Samples

Chapter 11: Analysis of Variance : Chi-Square Tests and the F-Distribution

Chapter 12: Nonparametric Tests

Chapter 13: Simple Linear Regression

Chapter 14: Dummy Variable and Simple Linear Regression

Office Hours: Monday 1:00-2:00 (TSMC Building 750, styu@mx.nthu.edu.tw)