

國立中正大學企業管理學系教學大綱

編號：5202003-01
科目名稱：統計學(一)
英文譯名：Statistics (I)
修別 / 學分數：必修 / 3

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課程概述：

Statistics has become an indispensable tool in business, government, and virtually every academic discipline. Some familiarity with statistics is essential for all of us if we are to comprehend the world around us. The objective of this course is to provide a clear understanding of basic statistical concepts and techniques and to present well-organized procedures for applying them.

課程核心能力：

Data/Big data collection, screening, summarizing, analyzing capabilities.

授課大綱：

The subjects covered include:

1. Introduction to Statistics
2. Descriptive Statistics I: Tabular and Graphical Methods
3. Descriptive Statistics II: Numerical Methods
4. Introduction to Probability
5. Discrete Probability Distributions
6. Continuous Probability Distributions
7. Sampling and Sampling Distributions
8. Interval Estimation
9. Hypothesis Testing
10. Statistical Inferences About Means and Proportions with Two Populations
11. Inferences About Population Variances

教科書：

Anderson, Sweeney, and Williams [2020], "Statistics for Business and Economics," Metric Version, 14th edition, Cengage Learning, Inc.

參考書籍：

- [1] Bluman, Allan [2013], "*Elementary Statistics: A Step by Step Approach with Formula Card*," 9th Edition, McGraw-Hill Companies.
- [2] Doane and Seward [2012], "*Applied Statistics in Business and Economics*," International Edition, McGraw-Hill Companies..
- [3] Moore, David [2010], "*The Basic Practice of Statistics*," 5th Edition, W. H. Freeman and Company.

評量方式：課堂參與：20% 平常考：20% 期中考：30% 期末考：30%