

Statistics 1

Course Information

Instructor: Chen, Hui-Chieh 陳慧捷

Class Time: Thursday 13:00-16:00

TA Session: Tuesdays 13:00~14:00

Instructor Consultation: By appointment - jennyccu@ccu.edu.tw

Course Objective

This course introduces the fundamental concepts, methods, and applications of statistics, with particular emphasis on their use in finance and business decision-making. Students will learn how to collect, organize, summarize, analyze, and interpret quantitative data. The course covers descriptive statistics, probability, random variables and probability distributions, sampling distributions, confidence intervals, hypothesis testing, analysis of variance, and nonparametric statistical methods. Through financial examples and practical exercises, students will develop the ability to select appropriate statistical techniques, interpret empirical results, and communicate their findings clearly. By the end of the course, students should be able to apply statistical reasoning to financial data, evaluate evidence critically, and make informed decisions under uncertainty.

Textbook

McClave J. T., P. G. Benson, & T. Sincich. (14th ed.). Statistics for Business and Economics. Pearson.

Grading Policy

Midterm Exam: 40%

Final Exam: 60%

Schedule

Week 1: 9/10	Chapter 1: Statistics, Data, and Statistical Thinking
Week 2: 9/17	Chapter 2: Methods for Describing Sets of Data
Week 3: 9/24	Chapter 3: Probability
Week 4: 10/1	Chapter 4: Random Variables and Probability Distribution (1/2)
Week 5: 10/8	Chapter 4: Random Variables and Probability Distribution (2/2)
Week 6: 10/15	Chapter 5: Sampling Distribution
Week 7: 10/22	Chapter 6: Inferences Based on a Single Sample: Estimation with Confidence Intervals (1/2)

Week 8: 10/29	Chapter 6: Inferences Based on a Single Sample: Estimation with Confidence Intervals (2/2); Midterm Review
Week 9: 11/5	Mid-term Exam
Week 10: 11/12	No Class(Instructor Leave); a Make-up Class Will Be Arranged (老師事假, 將另行補課)
Week 11: 11/19	Chapter 7: Inferences Based on a Single Sample: Tests of Hypothesis
Week 12: 11/26	Chapter 8: Inferences Based on Two Samples: Confidence Intervals and Tests of Hypotheses
Week 13: 12/3	Chapter 9: Design of Experiments and Analysis of Variance (1/2)
Week 14: 12/10	Chapter 9: Design of Experiments and Analysis of Variance (2/2); Final Exam Review
Week 15: 12/17	Final Exam
Week 16: 12/24	Chapter 15: Nonparametric Statistics
Week 17: 12/31	<i>National Holiday</i>
Week 18: 1/7	<i>Flexible Learning Week</i>