

STAT1011D Introduction to Statistics 2nd semester, 2023-2024

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Time and Venue (Lecture) Thursday: 2:30pm - 5:15pm (YIA LT6)

Teaching Assistants:

Mr. Jia, Bowen [LSB G24, email: jjabo20@link.cuhk.edu.hk]
 Mr. Liu, Yujia [LSB 123, email: yjliu@link.cuhk.edu.hk]
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Tutorial Sessions: TBC

1. Course Description:

This course introduces basic statistical methods with applications in behavioral and experimental sciences. Topics include descriptive statistics, the concepts of population and sample, random sampling, basic distributions, point and confidence interval estimations, hypothesis testing and inferences on two samples. Topics and examples in relation to correlation, contingency table and regression will also be discussed.

2. Learning outcomes

Upon completion of the course, students will

- (1) learn the basic methods in data collection,
- (2) acquire knowledge in data analysis and presentation skills,
- (3) be able to apply estimation and testing methods to practical problems.

3. Course Content

| Topic | Contents/ concepts |
|---------------------------------------|---|
| Data Collection | Methods of collecting data, sampling techniques, bias |
| Descriptive statistics | Statistical graphics, organizing qualitative and quantitative data, measures of central tendency and dispersion, outliers, boxplots |
| Elementary probability | Basic concepts of probability, independence, conditional probability, Bayes' Theorem |
| Discrete probability distributions | Bernoulli and Binomial, multinomial, Poisson, Hypergeometric |
| Normal Distribution | Standardization, finding probabilities, assessing normality, normal approximation to the binomial probability distribution |
| Sampling distribution of sample means | Central limit theorem, Finite population correction factor |
| Estimation | Basic Concepts, point estimation, confidence intervals |
| Testing | Basic concepts of hypothesis testing, testing of means, testing of proportions, testing of variances |
| Inferences on two samples | Inference about two means, inference about two population proportions, inference about two population variances |
| Regression | Correlation, simple linear regression |

Introduction To Statistics Stat 1011

BM King



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