

YUAN ZE UNIVERSITY

CM002 G Fundamental Computer Programming–Statistical and Quantitative Analysis

Year: 2024

Instructor: **Dien Giau Bui (Richard)**

CONTACT: Dien Giau Bui (Richard)

- Office hour: every Wednesday morning, 9:00–12:00, R60705. Please send me an email to book in advance.
- Email: **buidiengiau@saturn.yzu.edu.tw**, please specify in email subject: [CM002]. For example: [CM002] *Your question subject*.
- TA Contact: TBA, email: TBA

COURSE OUTLINE

Course Description

This course is for undergraduate students who have a basic coding background (CM001 or CP121) and are interested in intensifying their analytical skills for statistical analysis and reporting. After finishing the class, the students can understand basic data manipulation, statistical analysis, and data reporting.

The class can be classified into three main modules:

- Data cleaning
- Statistical tests
- Reporting

Textbook

The elective reading for the course is:

- “R for Data Science,” 2th Edition by Hadley Wickham et al. 2023
[R4DS]

Materials

Will be upload to this website frequently:

<https://github.com/diengiau/cm002>

If you want to download the materials to your laptop/PC, you can click to the green

button **Code** and Download as ZIP file.

Grading

Category	Percentage	Note
Quiz 1	30%	Random time
Quiz 2	30%	
Quiz 3	40%	

Schedule (flexible to change)

Week	Topic	Reading & Note
1	Course Introduction + Clean data	
2	No class	Will make-up class
3	No class	Will make-up class
4	Clean data (cont)	Make up 1 hour
5	Clean data (cont)	Make up 1 hour
6	Clean data (cont)	Make up 1 hour
7	Official Holiday	
8	Clean data (cont)	Make up 1 hour
9	Quiz 2	
10	Statistical tests	
11	Statistical tests (cont)	
12	Statistical tests (cont)	
13	Statistical tests (cont)	
14	Statistical tests (cont)	
15	Reporting	
16	Reporting (cont)	

17	Reporting (cont)	
18	Quiz 3	