Psychological and Educational Statistics (II)

Goals:

1. Be familiar with the statistical theories and methods within the framework of psychology and education.
2. Learn how to conduct appropriate statistical analysis using computer software (Excel), as well as provide correct explanations.
3. Enhance the ability of problem-solving and the ability to cooperate with classmates.

Schedule：

Wed. 7-9

Outline：

date	Topic
02/21	Introduction and review
02/28	**228 Peace Memorial Day**
03/06	Confidence intervals
03/13	Confidence intervals
03/20	**Break**
03/27	Confidence intervals
04/03	**Intercollegiate Activities(no class)**
04/10	**Midterm I**
04/17	Hypothesis testing
04/24	Hypothesis testing
05/01	Categorical data analysis
05/08	Categorical data analysis
05/15	**Midterm II**
05/22	Linear correlation
05/29	Linear correlation
06/05	One-way ANOVA I
06/12	One-way ANOVA I
06/19	**Final**

Evaluations :

1. 20% for each midterm and final examine
2. 40% for homework

Textbook :

1. 王文中、錢才瑋（2021）。**統計學與 Excel 資料分析之實習應用**(第七版)。台北：博碩。

References :

1. Kronthaler, F. (2023). *Statistics applied with Excel: data analysis is (not) an art.* Springer Berlin Heidelberg.
2. Quirk, T. J. (2020). *Excel 2019 for educational and psychological statistics: a guide to solving practical problems* (2nd ed.). Cham : Springer International Publishing.
3. Quirk, T. J. (2021). *Excel 2019 for social science statistics: a guide to solving practical problems* (2nd ed.). Cham : Springer International Publishing.

Online classroom (Google meet)

https://meet.google.com/ech-oxcu-zdw

Notes:

1. Students who wish to enroll this course with limit **HAVE TO** attend the vary first class and provide the reason for enrollment in advance.
2. This course only accepts student who currently enrolls one of the following programs: 主修、雙主修或輔系教育心理與諮商學系、心理學第一或第二專長.

Integrating ethical guidelines for generative AI into NTHU course:

After careful consideration, the instructor of this course deems it inappropriate to use generative artificial intelligence in this class. This is because the content within generative AI may adversely affect students' understanding of foundational knowledge. In accordance with the published Guidelines for Collaboration, Co-learning, and Cultivation of Artificial Intelligence Competencies in University Education, this course adopts the following policy: **Prohibited use**

Students enrolled in this course should be aware that they may not submit assignments, reports, or personal reflections generated using artificial intelligence. If such usage is discovered, instructors, the institution, or relevant units have the right to reevaluate the assignment or report or withhold scores. Students enrolled in this course agree to the above ethics statement if registering for the class.