Tamkang University Academic Year 113, 1st Semester Course Syllabus

Course Title	STATISTICS (I)	Instructor	MATEUS LEE
Course Class	TRDXB2A DEPARTMENT OF DIPLOMACY AND INTERNATIONAL RELATIONS (ENGLISH-TAUGHT PROGRAM), 2A	Details	◆ General Course ◆ Required ◆ One Semester ◆ 2 Credits
Relevance to SDGs	SDG4 Quality education SDG9 Industry, Innovation, and Infrastructure		

Departmental Aim of Education

To provide students with an understanding of the major theories in diplomacy & international relations and to equip students with practical skills and help them become outstanding members of the diplomatic and international relations community.

Subject Departmental core competences

A. Every student will process essential understanding of theories of international relations. (ratio:5.00)

B. Every student will have primary perception of current international issues.(ratio:5.00)

C. Every student will become capable of Independent thinking and information processing to further improve international relations.(ratio:40.00)

D. Every student will process essential knowledge of participation in governmental & non-governmental affairs.(ratio:10.00)

E. Every student will display high-level competence in English.(ratio:40.00)

Subject Schoolwide essential virtues

1. A global perspective. (ratio:5.00)
2. Information literacy. (ratio:30.00)
3. A vision for the future. (ratio:5.00)
4. Moral integrity. (ratio:10.00)
5. Independent thinking. (ratio:30.00)
6. A cheerful attitude and healthy lifestyle. (ratio:10.00)
7. A spirit of teamwork and dedication. (ratio:5.00)
8. A sense of aesthetic appreciation. (ratio:5.00)

Course Introduction	The course introduces the basic concepts of statistics with practical applications. Popular statistical softwares (for example, Excel and Gretl) are also introduced in helping students to know how to apply statistics by softwares. Our goal is to establish the students' fundamental capability in organizing, analyzing and interpreting data.

The correspondences between the course's instructional objectives and the cognitive, affective, and psychomotor objectives.

Differentiate the various objective methods among the cognitive, affective and psychomotor domains of the course's instructional objectives.

I. Cognitive : Emphasis upon the study of various kinds of knowledge in the cognition of the course's veracity, conception, procedures, outcomes, etc.
II.Affective : Emphasis upon the study of various kinds of knowledge in the course's appeal, morals, attitude, conviction, values, etc.
III.Psychomotor: Emphasis upon the study of the course's physical activity and technical manipulation.

No.	Teaching Objectives	objective methods
1	Understanding the basic concepts of statistics.	Cognitive
2	Helping the students to acknowledge how to apply statistics.	Cognitive
3	Strengthening the students' capabilities of independent thinking, analyzing and solving problems.	Cognitive

The correspondences of teaching objectives : core competences, essential virtues, teaching methods, and assessment

No.	Core Competences	Essential Virtues	Teaching Methods	Assessment
1	ABCDE	1235	Lecture, Discussion	Testing, Study Assignments, Discussion(including classroom and online), Activity Participation
2	ABCDE	2457	Lecture, Discussion	Testing, Study Assignments, Discussion(including classroom and online)
3	CE	5678	Lecture, Discussion	Testing, Study Assignments, Discussion(including classroom and online), Activity Participation

Course Schedule			
Week	Date	Course Contents	Note
1	113/09/09 ~ 113/09/15	Introduction of the Course and What is Statistics	Data Experiment and Discussion
2	113/09/16 ~ 113/09/22	Chapter 2. Describing Data (I): Frequencies and Graphic Presentation	
3	113/09/23 ~ 113/09/29	Chapter 3. Describing Data (II): Measures of Location	
4	113/09/30 ~ 113/10/06	Chapter 3. Describing Data (III): Measures of Variation	
5	113/10/07 ~ 113/10/13	Day-off: National holiday	
6	113/10/14 ~ 113/10/20	Chapter 4. Describing Data (IV): Measures of Position, Skewness and the Relationship Between Two Variables	
7	113/10/21 ~ 113/10/27	【Software Practice in Computer Room】Learn how to use Excel for Statistics (2.5 hours lecture)	Starts at 12:40
8	113/10/28 ~ 113/11/03	Chapter 5. Probability (I): Concepts of Probability	
9	113/11/04 ~ 113/11/10	Chapter 5. Probability (II): Calculation of Probability	Dice Throwing Experiment
10	113/11/11 ~ 113/11/17	*** Midterm Exam on 14 Nov 2024 ***	
11	113/11/18 ~ 113/11/24	Correction exercise with bonus	
12	113/11/25 ~ 113/12/01	Chapter 6. Discrete Probability Distribution (I): Bernoulli Trial and Binomial Distribution	In-class exercise
13	113/12/02 ~ 113/12/08	Chapter 6. Discrete Probability Distribution (II): Poisson Distribution	In-class exercise
14	113/12/09 ~ 113/12/15	Chapter 7. Continuous Probability Distribution (I): Normal Distribution	
15	113/12/16 ~ 113/12/22	Chapter 7. Continuous Probability Distributions (II): Standard Normal Distribution	In-class exercise
16	113/12/23 ~ 113/12/29	Chapter 7. Continuous Probability Distributions (III): Applications of Standard Normal Distribution	In-class exercise
17	113/12/30 ~ 114/01/05	*** Final Exam on 2 Jan 2025 ***	
18	114/01/06 ~ 114/01/12	Correction exercise with bonus	In-class exercise
Key capabilities			

Interdisciplinary	
Distinctive teaching	
Course Content	Logical Thinking
Requirement	(1) There will be a Practical Class in Computer Room on 24 Oct 2024 which starts at 12:40. (2) There is still a class on 9 Jan 2025. A correction exercise with bonus is assigned on that day. (3) Participate in In-class exercises are critical of Statistics Learning. (4) No Eating and Talking in the Class / Behave Well and Do Not Use Any 3C Devices in the Class / Being in Class On Time / Asking Question is a Credit / Lesson Preview and Review are Recommended.
Textbooks and Teaching Materials	Self-made teaching materials:Presentations, Handouts Using teaching materials from other writers:Textbooks Name of teaching materials: 【Textbook】Lind D.A., Marchal W.G., and Wathen S.A. (2022). Basic Statistics for Business & Economics (10th edition). McGraw Hill.（ISBN: 978-1-260-57048-9）
References	(1) Weiss, Neil A. (2017). Introductory Statistics (10e). Pearson. (2) Moore D., McCabe G.P. & Craig B.A. (2017). Introduction to the Practice of Statistics (9e). Macmillan Learning. (3) Lind D.A., Marchal W.G., and Wathen S.A. (2020). Statistical Techniques in Business & Economics (18th edition). McGraw Hill.
Grading Policy	◆ Attendance： 10.0 % ◆ Mark of Usual：15.0 % ◆ Midterm Exam： 20.0 % ◆ Final Exam： 30.0 % ◆ Other〈In-class Exercises〉：25.0 %
Note	This syllabus may be uploaded at the website of Course Syllabus Management System at http://info.ais.tku.edu.tw/csp or through the link of Course Syllabus Upload posted on the home page of TKU Office of Academic Affairs at http://www.acad.tku.edu.tw/CS/main.php . **※ Unauthorized photocopying is illegal. Using original textbooks is advised. It is a crime to improperly photocopy others' publications.**