Tamkang University Academic Year 113, 2nd Semester Course Syllabus

Course Title	STATISTICS (II)	Instructor	MATEUS LEE
Course Class	TRDXB2A DEPARTMENT OF DIPLOMACY AND INTERNATIONAL RELATIONS (ENGLISH-TAUGHT PROGRAM), 2A	Details	General CourseRequiredOne Semester2 Credits
Relevance to SDGs	SDG3 Good health and well-being for people 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 software (for example, the EXCEL) is also introduced to help students understanding how to apply statistics with software in their daily life. The course aims to establish fundamental capabilities for students in organizing, analyzing and interpreting data.

As inferential statistics deals with the connection between sample and population which is critical in social sciences, we are going to learn inferential statistics this semester in order to know how to apply in our daily life.

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	Understand the basic concepts of statistics, especially the inferential statistics.	Cognitive
2	Help the students to acknowledge how to apply statistics in their daily life.	Cognitive
3	Strengthen 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	12357	Lecture, Discussion, Practicum	Testing, Study Assignments, Discussion(including classroom and online), Activity Participation
2	ABCDE	12345678	Lecture, Discussion, Practicum	Testing, Study Assignments, Discussion(including classroom and online), Report(including oral and written), Activity Participation

3	ABCDE	25678	Lecture, Discussion	Testing, Study Assignments, Discussion(including classroom and online), Report(including oral and written), Activity Participation
			Course Schedule	
Week	Date	Co	Note	
1	114/02/17 ~ 114/02/23	Course Introduction & review of chapters 7 and 8		In-class exercise
2	114/02/24 ~ 114/03/02	Chapter 9. Estimation and Co	In-class exercise	
3	114/03/03 ~ 114/03/09	Chapter 9. Estimation and Co	In-class exercise	
4	114/03/10 ~ 114/03/16	Chapter 9. Estimation and Co	In-class exercise	
5	114/03/17 ~ 114/03/23	Chapter 10. One-Sample Tes Six-Step Procedure for Testir	Kahoot	
6	114/03/24 ~ 114/03/30	Chapter 10. One-Sample Tests of Hypothesis (II): Hypothesis Testing for a Population Mean with Known and Unknown Population Standard Deviation		In-class exercise
7	114/03/31 ~ 114/04/06	Holiday (Day off)		
8	114/04/07 ~ 114/04/13	Chapter 10. One-Sample Tests of Hypothesis (III): p-value in hypothesis testing and Type II error		In-class exercise
9	114/04/14 ~ 114/04/20	Midterm Exam on 17 April 2025		Midterm exam
10	114/04/21 ~ 114/04/27	Review of Midterm exam : Correction exercise with bonus		
11	114/04/28 ~ 114/05/04	Chapter 11. Two-sample Tests of Hypothesis (I): Independent samples		In-class exercise
12	114/05/05 ~ 114/05/11	Chapter 11. Two-sample Tests of Hypothesis (II): Dependent samples		In-class exercise
13	114/05/12 ~ 114/05/18	Practice : In-class experiment		
14	114/05/19 ~ 114/05/25	Chapter 13. Correlation and Linear Regression (I): The Correlation Coefficient		Kahoot
15	114/05/26 ~ 114/06/01	Chapter 13. Correlation and Linear Regression (II): The Least Squares Principle in Regression Analysis		In-class exercise and Kahoot

16	114/06/02 ~ 114/06/08	Chapter 13. Correlation and Linear Regression (III): Prediction	In-class exercise	
17	114/06/09 ~ 114/06/15	Final Exam on 12 June 2025	Final exam	
18	114/06/16 ~ 114/06/22	Review of Final exam: Correction exercise with bonus		
Key capabilities		self-directed learning		
Interdisciplinary		STEAM course (S:Science, T:Technology, E:Engineering, M:Math, A field:Integration of Art and Humanist)		
Distinctive teaching				
Course Content		Logical Thinking		
Re	(1) There are in-school written exams on 17 Apr 2025 and 12 Jun 2025. (2) There is a class after final exam on 19 Jun 2025. (3) No eating and talking in the class. (4) Behave well and do not use any 3C devices in the class unless it is required by the class. (5) Being in class on Time. (6) Asking question is a credit. (7) Lesson preview and lesson review are strongly recommended. (8) A practical group report is required.		y the class.	
Textbooks and Teaching Materials		Self-made teaching materials:Presentations, Handouts, Worksheets 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: 978-1-260-59757-8】		
References		(1) Weiss, Neil A. (2017). Introductory Statistics (10e). Pearson. (2) Moore D., McCabe G.P. and Craig B.A. (2017). Introduction to the Practice of Statistics (9e). Macmillan Learning. (3) Lind D.A., Marchal W.G. and Wathen S.A. (2022). Basic Statistics for Business & Economics (10th edition). McGraw Hill. 【ISBN: 978-1-260-59757-8		
<pre>Attendance: 5.0 % ◆ Mark of Usual Grading Policy Attendance: 5.0 % ◆ Mark of Usual The policy of the following the policy of the poli</pre>		◆ Final Exam: 30.0 %	m Exam: 20.0 %	
	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 Note 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.		osted on the CS/main.php .	

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