Course Title	STATISTICS (II)	Instructor	KLEYKAMP DAVID LEE
Course Class	TRDXB2A DEPARTMENT OF DIPLOMACY AND INTERNATIONAL RELATIONS (ENGLISH-TAUGHT PROGRAM), 2A	Details	◆ Required ◆ One Semester ◆ 2 Credits

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.

Departmental core competences

A. Every student will process essential understanding of theories of international relations.

B. Every student will have primary perception of current international issues.

C. Every student will become capable of Independent thinking and information processing to further improve international relations.

D. Every student will process essential knowledge of participation in governmental & non-governmental affairs.

E. Every student will display high-level competence in English.

Course Introduction	This course studies simple and multivariate regression modeling, estimation, diagnostic evaluations, hypothesis testing in regression, and forecasting. It also considers the method of one and two-way ANOVA.

The Relevance among Teaching Objectives, Objective Levels and Departmental core competences

I.Objective Levels (select applicable ones) :
(i) Cognitive Domain   : C1-Remembering,   C2-Understanding,   C3-Applying,
                          C4-Analyzing,   C5-Evaluating,   C6-Creating
(ii) Psychomotor Domain : P1-Imitation,   P2-Mechanism,   P3-Independent Operation,
                          P4-Linked Operation, P5-Automation,   P6-Origination
(iii) Affective Domain : A1-Receiving,   A2-Responding,   A3-Valuing,
                          A4-Organizing,   A5-Charaterizing,   A6-Implementing

II.The Relevance among Teaching Objectives, Objective Levels and Departmental core competences :
(i) Determine the objective level(s) in any one of the three learning domains (cognitive, psychomotor, and affective) corresponding to the teaching objective. Each objective should correspond to the objective level(s) of ONLY ONE of the three domains.
(ii) If more than one objective levels are applicable for each learning domain, select the highest one only. (For example, if the objective levels for Cognitive Domain include C3,C5,and C6, select C6 only and fill it in the boxes below. The same rule applies to Psychomotor Domain and Affective Domain.)
(iii) Determine the Departmental core competences that correspond to each teaching objective. Each objective may correspond to one or more Departmental core competences at a time. (For example, if one objective corresponds to three Departmental core competences: A,AD, and BEF, list all of the three in the box.)

No.	Teaching Objectives	Relevance	
		Objective Levels	Departmental core competences
1	Familiarize students with the analysis of data	C4	CE
2	The basic techniques of statistical analysis	P5	CE

Teaching Objectives, Teaching Methods and Assessment

No.	Teaching Objectives	Teaching Methods	Assessment
1	Familiarize students with the analysis of data	Lecture, Discussion, software	Written test, Participation
2	The basic techniques of statistical analysis	Lecture, Discussion, software	Written test, Participation

	This course has been designed to cultivate the following essential qualities in TKU students	

Essential Qualities of TKU Students	Description
◇ A global perspective	Helping students develop a broader perspective from which to understand international affairs and global development.
◆ Information literacy	Becoming adept at using information technology and learning the proper way to process information.
◆ A vision for the future	Understanding self-growth, social change, and technological development so as to gain the skills necessary to bring about one's future vision.
◇ Moral integrity	Learning how to interact with others, practicing empathy and caring for others, and constructing moral principles with which to solve ethical problems.
◆ Independent thinking	Encouraging students to keenly observe and seek out the source of their problems, and to think logically and critically.
◇ A cheerful attitude and healthy lifestyle	Raising an awareness of the fine balance between one's body and soul and the environment; helping students live a meaningful life.
◇ A spirit of teamwork and dedication	Improving one's ability to communicate and cooperate so as to integrate resources, collaborate with others, and solve problems.
◇ A sense of aesthetic appreciation	Equipping students with the ability to sense and appreciate aesthetic beauty, to express themselves clearly, and to enjoy the creative process.

Course Schedule

Week	Date	Subject/Topics	Note
1	108/02/18 ~ 108/02/24	Review of Probability Theory and Statistics	
2	108/02/25 ~ 108/03/03	Simple Regression Models	
3	108/03/04 ~ 108/03/10	Estimating Simple Regression Models by Hand and with gretl	
4	108/03/11 ~ 108/03/17	Evaluating Simple Regressions using gretl	
5	108/03/18 ~ 108/03/24	Examples of Simple Regression Models	
6	108/03/25 ~ 108/03/31	Multivariate Regression Models	
7	108/04/01 ~ 108/04/07	Databases and Multivariate Regressions - Excel	
8	108/04/08 ~ 108/04/14	Estimating and Evaluating Multivariate Regressions using gretl	
9	108/04/15 ~ 108/04/21	Review	
10	108/04/22 ~ 108/04/28	Midterm Exam Week	
11	108/04/29 ~ 108/05/05	Examples of Multivariate Regression	
12	108/05/06 ~ 108/05/12	Problems and Limitations of Multivariate Regressions	

13	108/05/13～ 108/05/19	Logit Models Theory and Applications	
14	108/05/20～ 108/05/26	One Way ANOVA - Using Excel	
15	108/05/27～ 108/06/02	Two Way ANOVA - Using Excel	
16	108/06/03～ 108/06/09	Using gretl and Dummy Variables to do ANOVA	
17	108/06/10～ 108/06/16	Review for Final	
18	108/06/17～ 108/06/23	Final Exam Week	

Requirement	
Teaching Facility	Computer
Textbook(s)	pdf downloads from http://www.kleykampintaiwan.com
Reference(s)	EXCEL help modules
Number of Assignment(s)	(Filled in by assignment instructor only)
Grading Policy	◆ Attendance： 20.0 % ◆ Mark of Usual： % ◆ Midterm Exam： 40.0 % ◆ Final Exam： 40.0 % ◆ Other〈 〉： %
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.**