

## Tamkang University Academic Year 102, 2nd Semester Course Syllabus

Course Title	STATISTICS	Instructor	CHOU, YING-LUNG
Course Class	TPGXB1A DEPARTMENT OF GLOBAL POLITICAL ECONOMY, 1A	Details	<ul style="list-style-type: none"> <li>◆ Required</li> <li>◆ One Semester</li> <li>◆ 3 Credits</li> </ul>
D e p a r t m e n t a l   A i m   o f   E d u c a t i o n			
D e p a r t m e n t a l   c o r e   c o m p e t e n c e s			
<ul style="list-style-type: none"> <li>A. Provide essential analytical abilities in the area of politics and economics.</li> <li>B. Provide basic capabilities for the conduct of the quantitative research.</li> <li>C. Provide with knowledge and skills that will enable for understanding of the current global issues.</li> <li>D. Develop a high level of proficiency in verbal and written English required for study and communication.</li> <li>E. Develop ability to pursue research independently as well as in teams.</li> <li>F. Provide with basic knowledge on Taiwan political and economic development.</li> </ul>			
Course Introduction	<p>This course intends to introduce some basic knowledge of statistics to the students of Dept. of Global Politics and Economics. Furthermore, this course will teach students how to use statistical software-SPSS (Statistical Package for the Social Science).</p>		

### 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-Characterizing, 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	Understand the logic and concepts behind statistical formulas	C3	AB
2	Be familiar with SPSS software	C3	AB

### Teaching Objectives, Teaching Methods and Assessment

No.	Teaching Objectives	Teaching Methods	Assessment
1	Understand the logic and concepts behind statistical formulas	Lecture, Practicum, Problem solving	Written test, Practicum, Participation
2	Be familiar with SPSS software	Lecture, Practicum, Problem solving	Practicum, Report

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	103/02/17 ~ 103/02/23	Course Introduction & Movie: Money Ball	
2	103/02/24 ~ 103/03/02	The Nature of Statistics	
3	103/03/03 ~ 103/03/09	Organizing Data	
4	103/03/10 ~ 103/03/16	Descriptive Measures	
5	103/03/17 ~ 103/03/23	Probability Concepts & Probability Distribution	
6	103/03/24 ~ 103/03/30	Probability Distribution & The Normal Distribution	
7	103/03/31 ~ 103/04/06	Spring Break	
8	103/04/07 ~ 103/04/13	The Sampling Distribution of the Sample Mean	
9	103/04/14 ~ 103/04/20	Estimation	
10	103/04/21 ~ 103/04/27	Midterm Exam Week	
11	103/04/28 ~ 103/05/04	Hypothesis Testing (1)	
12	103/05/05 ~ 103/05/11	Hypothesis Testing (2)	

13	103/05/12 ~ 103/05/18	Inferences for Two Population Means	
14	103/05/19 ~ 103/05/25	Contingency Tables	
15	103/05/26 ~ 103/06/01	Analysis of Variance & Correlation	
16	103/06/02 ~ 103/06/08	Linear Regression	
17	103/06/09 ~ 103/06/15	Review and Quiz	
18	103/06/16 ~ 103/06/22	Final Exam Week	
Requirement			
Teaching Facility	Computer, Projector		
Textbook(s)	Weiss, Neil A. (2012). Elementary Statistics (8th ed.) (華泰文化代理)		
Reference(s)			
Number of Assignment(s)	(Filled in by assignment instructor only)		
Grading Policy	◆ Attendance : 10.0 %   ◆ Mark of Usual : 20.0 %   ◆ Midterm Exam : 25.0 % ◆ Final Exam : % ◆ Other (Quiz, Report, TA) : 45.0 %		
Note	This syllabus may be uploaded at the website of Course Syllabus Management System at <a href="http://info.ais.tku.edu.tw/csp">http://info.ais.tku.edu.tw/csp</a> or through the link of Course Syllabus Upload posted on the home page of TKU Office of Academic Affairs at <a href="http://www.acad.tku.edu.tw/CS/main.php">http://www.acad.tku.edu.tw/CS/main.php</a> . <b>※ Unauthorized photocopying is illegal. Using original textbooks is advised. It is a crime to improperly photocopy others' publications.</b>		