

Tamkang University Academic Year 105, 2nd Semester Course Syllabus

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| Course Title | STATISTICS (II) | Instructor | CHOU, YING-LUNG |
| Course Class | TQGX B1A DEPARTMENT OF GLOBAL POLITICS AND ECONOMICS (ENGLISH-TAUGHT PROGRAM), 1A | Details | <ul style="list-style-type: none"> ◆ Required ◆ One Semester ◆ 2 Credits |
| 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 | | | |
| <p>To be equipped with a basic knowledge of economics and political science, to develop confidence in communicating professionally and academically in English in matters related to the global political economy; to acquire the capability to conduct further research individually and collectively with others; and ultimately to prepare oneself to become professionals and leaders with a global perspective for the international arena.</p> | | | |
| 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"> A. Provide essential analytical abilities in the area of politics and economics B. Provide knowledge and skills to understand the current global issues C. Develop a high level of proficiency in verbal and written English required in the course of study and for communication purposes D. Develop ability to pursue research independently as well as in teams E. Provide basic knowledge on Taiwan's political and economic development | | | |
| Course Introduction | <p>This course intends to introduce some basic knowledge of statistics to the students of Dept. of Global Politics and Economics.</p> | | |
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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 | To know the basic principles of statistics. | C3 | AD |

Teaching Objectives, Teaching Methods and Assessment

| No. | Teaching Objectives | Teaching Methods | Assessment |
|-----|---|-------------------------------------|-------------------------|
| 1 | To know the basic principles of statistics. | Lecture, Practicum, Problem solving | Written test, Practicum |
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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 | 106/02/13 ~ 106/02/19 | Introduction & Review of Statistics (I) | |
| 2 | 106/02/20 ~ 106/02/26 | Hypothesis Tests for One Population Mean (1) | |
| 3 | 106/02/27 ~ 106/03/05 | Quiz1; Hypothesis Tests for One Population Mean (2) | |
| 4 | 106/03/06 ~ 106/03/12 | Hypothesis Tests for One Population Mean (3) | |
| 5 | 106/03/13 ~ 106/03/19 | Quiz 2; Inferences for Two Population Means (1) | |
| 6 | 106/03/20 ~ 106/03/26 | Inferences for Two Population Means (2) | |
| 7 | 106/03/27 ~ 106/04/02 | Quiz 3; Inferences for Population Standard Deviations | |
| 8 | 106/04/03 ~ 106/04/09 | Spring Break | |
| 9 | 106/04/10 ~ 106/04/16 | Inferences for Population Proportions | |
| 10 | 106/04/17 ~ 106/04/23 | Midterm Exam Week | |
| 11 | 106/04/24 ~ 106/04/30 | Chi-Square Procedures (1) | |
| 12 | 106/05/01 ~ 106/05/07 | Chi-Square Procedures (2) | |

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| 13 | 106/05/08 ~ 106/05/14 | Quiz 4; Descriptive Methods in Regression and Correlation (1) | |
| 14 | 106/05/15 ~ 106/05/21 | Descriptive Methods in Regression and Correlation (2) | |
| 15 | 106/05/22 ~ 106/05/28 | Quiz 5; Inferential Methods in Regression and Correlation (1) | |
| 16 | 106/05/29 ~ 106/06/04 | Quiz 6 Inferential Methods in Regression and Correlation (2) | |
| 17 | 106/06/05 ~ 106/06/11 | Review | |
| 18 | 106/06/12 ~ 106/06/18 | Final Exam Week | |
| Requirement | According to TKU Study Regulations, article 38, if a student's class absence reaches one-third of the total class hours (in a semester) for this course, the course instructor will notify the Office of Academic Affairs, and the student will not be allowed to take part in the remaining course examinations and will receive a semester grade (for this course) of zero. | | |
| Teaching Facility | Computer, Projector | | |
| Textbook(s) | Weiss, Neil A. (2012). Introductory Statistics (9th ed.) (華泰文化代理) | | |
| Reference(s) | | | |
| Number of Assignment(s) | 6 (Filled in by assignment instructor only) | | |
| Grading Policy | ◆ Attendance : 10.0 % ◆ Mark of Usual : 10.0 % ◆ Midterm Exam : 25.0 % ◆ Final Exam : 30.0 % ◆ Other (in-class tests) : 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. | | |