

Tamkang University Academic Year 105, 1st Semester Course Syllabus

Course Title	QUANTITATIVE RESEARCH METHODS	Instructor	JIA-LING YAU
Course Class	TFLXD1A DOCTORAL PROGRAM, DEPARTMENT OF ENGLISH, 1A	Details	<ul style="list-style-type: none"> ◆ Selective ◆ One Semester ◆ 3 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

- I . Cultivate diverse research specialists with abilities in language, literature, culture, and English teaching.
- II. Carry on and further the excellent tradition of domestic language instruction and literary research to be a department contributing equally to research and language teaching.
- III. Foster a holistic learning process by putting equal emphasis on language and literature, theory and practice.
- IV. Strategies
 1. Train students' abilities in five skills: English listening, speaking, reading, writing and translation.
 2. Promote technologicalization and internationalization.
 3. Upgrade the quality and quantity of those students who participate in the Junior Year Abroad program.
 4. Launch a common English Proficiency Test and enhance students' competitiveness in the job market.
 5. Enrich international video conferencing.
 6. Promulgate such areas of research as English and American literature, cultural studies, ecocriticism, and English Teaching.

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

- A. Foster the ability to delve into a specialized knowledge of literature.
- B. Nurture the ability to do original research.
- C. Cultivate professional ethics and social responsibility.
- D. Develop original English teaching and research.
- E. Utilize qualitative and quantitative research concepts and methods to plan, implement, analyze and write about English teaching and pertinent research.
- F. Cultivate language teaching ethics and social responsibility.

Course Introduction	This course is designed to develop basic statistical literacy. The students will be able to understand the role of statistics in the research process, be competent to perform basic calculations, comprehend research reports they may encounter in everyday life, and evaluate the professional research literature in their field.
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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-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 basic concepts of statistics	C2	ABE
2	analysis and interpretation	C4	BDE
3	the ability to design a quantitative study	C3	BD

Teaching Objectives, Teaching Methods and Assessment

No.	Teaching Objectives	Teaching Methods	Assessment
1	understand the basic concepts of statistics	Lecture, Discussion, Problem solving	Written test
2	analysis and interpretation	Lecture, Discussion, Problem solving	Report

3	the ability to design a quantitative study	Discussion, Problem solving	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	105/09/12 ~ 105/09/18	Course Introduction	
2	105/09/19 ~ 105/09/25	Quantitative Research: Nature, Process, Planning and Design	
3	105/09/26 ~ 105/10/02	Descriptive Statistics	
4	105/10/03 ~ 105/10/09	Measures of Central Tendency	
5	105/10/10 ~ 105/10/16	Measures of Dispersion	
6	105/10/17 ~ 105/10/23	The Normal Curve	
7	105/10/24 ~ 105/10/30	Review & Test 1	
8	105/10/31 ~ 105/11/06	Inferential Statistics	
9	105/11/07 ~ 105/11/13	Hypothesis Test 1	
10	105/11/14 ~ 105/11/20	Hypothesis Test II	
11	105/11/21 ~ 105/11/27	Hypothesis Test III	

12	105/11/28 ~ 105/12/04	Hypothesis Test IV	
13	105/12/05 ~ 105/12/11	Review & Test 2	
14	105/12/12 ~ 105/12/18	Association between Variables Measured at the Normal Level	
15	105/12/19 ~ 105/12/25	Association between Variables Measured at the Ordinal Level	
16	105/12/26 ~ 106/01/01	Association between Variables Measured at the Interval-Ratio Level	
17	106/01/02 ~ 106/01/08	Partial Correlation and Multiple Regression and Correlation	
18	106/01/09 ~ 106/01/15	Test 3	
Requirement			
Teaching Facility	Computer, Projector, Other (SPSS software)		
Textbook(s)	Healey, Joseph F. (2016). The essentials of statistics: A tool for social research (4th edition). Boston: Cengage Learning.		
Reference(s)	Flicnk, Uwe (2015). Introducing research methodology (2nd edition). Los Angeles: SAGE. Kumar, Ranjit (2014). Research methodology: A step-by-step guide for beginners (fourth edition). London: Sage.		
Number of Assignment(s)	10 (Filled in by assignment instructor only)		
Grading Policy	◆ Attendance : 10.0 % ◆ Mark of Usual : % ◆ Midterm Exam : 30.0 % ◆ Final Exam : 30.0 % ◆ Other <weekly assignments> : 30.0 %		
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.		