

## Tamkang University Academic Year 103, 1st Semester Course Syllabus

Course Title	ADVANCED RESEARCH METHODS FOR THE SOCIAL SCIENCES	Instructor	KLEYKAMP DAVID LEE
Course Class	TIFXD1A DOCTORAL PROGRAM, GRADUATE INSTITUTE OF THE AMERICAS, 1A	Details	<ul style="list-style-type: none"> <li>◆ Selective</li> <li>◆ One Semester</li> <li>◆ 2 Credits</li> </ul>
Departmental Aim of Education			
I. To foster the development of experts in American affairs. II. To fully equip specialists for teaching important aspects of American life. III. To provide students an environment for achieving a high level of English proficiency.			
Departmental core competences			
A. To cultivate student academic research abilities. B. To refine student capabilities in understanding and applying theories in international relations. C. To promote critical and independent thinking and judgment. D. To foster a full understanding of and appreciation for American affairs. E. To empower students with professional expertise in English communication and writing.			
Course Introduction	This course considers a variety of research methods in the social sciences with a heavy emphasis on the use of quantitative models applied to data. The purpose of the course is to prepare students for modeling and testing theories using real world data.		

**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 fully equip specialists for teaching important aspects of American life.	C4	A
2	To provide students an environment for achieving a high level of English proficiency.	P3	CE

**Teaching Objectives, Teaching Methods and Assessment**

No.	Teaching Objectives	Teaching Methods	Assessment
1	To fully equip specialists for teaching important aspects of American life.	Lecture, Problem solving	Written test, Participation
2	To provide students an environment for achieving a high level of English proficiency.	Simulation, Problem solving	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	103/09/15~ 103/09/21	Introduction to Social Science Data, Statistics, and Software	
2	103/09/22~ 103/09/28	Simple Regression Methods	
3	103/09/29~ 103/10/05	Interpreting Simple Regression Output	
4	103/10/06~ 103/10/12	Applied Multivariate Regression Methods	
5	103/10/13~ 103/10/19	Regression Examples from Political Science, IR, History, and Economics	
6	103/10/20~ 103/10/26	The Binary Logit Model	
7	103/10/27~ 103/11/02	Examples of Logit in Social Science	
8	103/11/03~ 103/11/09	Panel Regression Methods	
9	103/11/10~ 103/11/16	Examples of Panel Regression Methods in Political Science and Economics	
10	103/11/17~ 103/11/23	Midterm Exam	
11	103/11/24~ 103/11/30	Quantile Regression Methods	

12	103/12/01 ~ 103/12/07	Application of Quantile Regression Methods	
13	103/12/08 ~ 103/12/14	Factor Models and Principal Components	
14	103/12/15 ~ 103/12/21	Application of Factor Models in Social Science	
15	103/12/22 ~ 103/12/28	Non-Quantitative Methods in Social Science	
16	103/12/29 ~ 104/01/04	Surveys and Polls in Social Science	
17	104/01/05 ~ 104/01/11	Summing Up Research Methods and Their Effectiveness	
18	104/01/12 ~ 104/01/18	Final Exam	
Requirement	Students will need to learn to use the free open source statistical software gretl. See <a href="http://gretl.sourceforge.net/">http://gretl.sourceforge.net/</a>		
Teaching Facility	Computer		
Textbook(s)	See Online Handouts at <a href="http://www.kleykampintaiwan.com">http://www.kleykampintaiwan.com</a>		
Reference(s)			
Number of Assignment(s)	(Filled in by assignment instructor only)		
Grading Policy	◆ Attendance :           %   ◆ Mark of Usual :           %   ◆ Midterm Exam : 30.0 % ◆ Final Exam :   40.0 % ◆ Other 〈 In-Class Work 〉 : 30.0 %		
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>		