

Tamkang University Academic Year 113, 1st Semester Course Syllabus

Course Title	APPLIED STATISTICS	Instructor	DENG WEN-SHUENN
Course Class	TLBAB2A DEPARTMENT OF BANKING AND FINANCE DIVISION OF GLOBAL FINANCIAL MANAGEMENT (ENGLISH-TAUGHT PROGRAM),	Details	<ul style="list-style-type: none"> ◆ General Course ◆ Selective ◆ One Semester ◆ 2 Credits
Relevance to SDGs	2A SDG3 Good health and well-being for people		
Departmental Aim of Education			
<ul style="list-style-type: none"> I. Learning and instanding international financial theory. II. Learn to plan the future. III. Enhance the ability of practical analysis. IV. Increase the team research ability. V. Master the international financial pulsation. VI. Cultivate morality and global civilization. 			
Subject Departmental core competences			
<ul style="list-style-type: none"> A. The student to have a basic knowledge of international financial management theory and practice.(ratio:30.00) B. To have a good grounding of relevant financial laws.(ratio:5.00) C. To understand the basic moral principles within the international financial industry. (ratio:15.00) D. To have a global perspective of the subject and a basic command of foreign language abilities.(ratio:20.00) E. To obtain international professional qualifications that will aid their future career. (ratio:15.00) F. To obtain a basic ability to examine domestic and global financial situations.(ratio:15.00) 			
Subject Schoolwide essential virtues			
<ul style="list-style-type: none"> 1. A global perspective. (ratio:25.00) 2. Information literacy. (ratio:15.00) 3. A vision for the future. (ratio:30.00) 			

4. Moral integrity. (ratio:5.00)
5. Independent thinking. (ratio:5.00)
6. A cheerful attitude and healthy lifestyle. (ratio:5.00)
7. A spirit of teamwork and dedication. (ratio:10.00)
8. A sense of aesthetic appreciation. (ratio:5.00)

Course Introduction

The course provides advanced statistical concepts and techniques with application in business and finance. Topics include hypothesis testing, goodness of fits test, analysis of variance and Regression analysis, which will be introduced with statistical software.

The correspondences between the course's instructional objectives and the cognitive, affective, and psychomotor objectives.

Differentiate the various objective methods among the cognitive, affective and psychomotor domains of the course's instructional objectives.

- I. Cognitive : Emphasis upon the study of various kinds of knowledge in the cognition of the course's veracity, conception, procedures, outcomes, etc.
- II.Affective : Emphasis upon the study of various kinds of knowledge in the course's appeal, morals, attitude, conviction, values, etc.
- III.Psychomotor: Emphasis upon the study of the course's physical activity and technical manipulation.

No.	Teaching Objectives	objective methods
1	Acquisition of professional knowledge	Cognitive
2	Learning effective self-planning.	Cognitive
3	Theoretical application of practical matters.	Cognitive
4	Interpersonal communication and teamwork.	Cognitive
5	Analysis of problems and recommendations.	Cognitive
6	Awareness of Ethics as a global citizen.	Cognitive

The correspondences of teaching objectives : core competences, essential virtues, teaching methods, and assessment

No.	Core Competences	Essential Virtues	Teaching Methods	Assessment
1	ABCDEF	12345678	Lecture, Discussion	Testing, Report(including oral and written)

2	ABCDEF	12345678	Lecture, Discussion	Testing, Report(including oral and written)
3	ABCDEF	12345678	Lecture, Discussion	Testing, Report(including oral and written)
4	ABCDEF	12345678	Lecture, Discussion	Testing, Report(including oral and written)
5	ABCDEF	12345678	Lecture, Discussion	Testing, Report(including oral and written)
6	ABCDEF	12345678	Lecture, Discussion	Testing, Report(including oral and written)

Course Schedule

Week	Date	Course Contents	Note
1	113/09/09 ~ 113/09/15	Review of Elementary Probability and Statistics	
2	113/09/16 ~ 113/09/22	Review of Elementary Probability and Statistics	
3	113/09/23 ~ 113/09/29	Goodness of Fits Test	
4	113/09/30 ~ 113/10/06	Goodness of Fits Test	
5	113/10/07 ~ 113/10/13	Simple Linear Regression	
6	113/10/14 ~ 113/10/20	Simple Linear Regression	
7	113/10/21 ~ 113/10/27	Multiple Linear Regression	
8	113/10/28 ~ 113/11/03	Multiple Linear Regression	
9	113/11/04 ~ 113/11/10	Midterm Exam/Midterm Assessment Week (teachers can adjust the week as needed)	
10	113/11/11 ~ 113/11/17	Multiple Linear Regression	
11	113/11/18 ~ 113/11/24	Analysis of Variance	
12	113/11/25 ~ 113/12/01	Analysis of Variance	
13	113/12/02 ~ 113/12/08	Analysis of Variance	
14	113/12/09 ~ 113/12/15	Logistic Regression	
15	113/12/16 ~ 113/12/22	Logistic Regression	
16	113/12/23 ~ 113/12/29	Logistic Regression	
17	113/12/30 ~ 114/01/05	Final Exam/Final Assessment Week (teachers can adjust the week as needed)	

18	114/01/06~ 114/01/12	Flexible Teaching Week: Generally, no in-person classes; teachers may arrange teaching activities or final assessments, among other options.	
Key capabilities	self-directed learning Information Technology Problem solving		
Interdisciplinary	Competency-based education 'competency exploration' sustained competency or global issues STEEP (Society, Technology, Economy, Environment, and Politics)		
Distinctive teaching	Project implementation course		
Course Content	Logical Thinking		
Requirement	Students are required to attend the regular classes and both the mid-term and final exams. Absences from regular classes will result in a deduction in final scores.		
Textbooks and Teaching Materials	Self-made teaching materials:Textbooks Name of teaching materials: Elementary Statistics: A Step by Step Approach, 10th Ed. Bluman, McGraw Hill		
References	Applied Statistics with R, David Dalpiaz. Free Material available online at http://davidalpiazh.github.io/appliedstats/applied_statistics.pdf		
Grading Policy	<p>◆ Attendance : 10.0 % ◆ Mark of Usual : 20.0 % ◆ Midterm Exam : 35.0 %</p> <p>◆ Final Exam : 35.0 %</p> <p>◆ Other < > : %</p>		
Note	<p>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.</p> <p>※ Unauthorized photocopying is illegal. Using original textbooks is advised. It is a crime to improperly photocopy others' publications.</p>		