

Tamkang University Academic Year 110, 1st Semester Course Syllabus

Course Title	STATISTICS	Instructor	DENG WEN-SHUENN
Course Class	TLBAB1A DEPARTMENT OF BANKING AND FINANCE DIVISION OF GLOBAL FINANCIAL MANAGEMENT (ENGLISH-TAUGHT PROGRAM),	Details	<ul style="list-style-type: none"> ◆ General Course ◆ Required ◆ 1st Semester
Relevance to SDGs	1A SDG3 Good health and well-being for people SDG4 Quality education		
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. Acquisition of professional knowledge. II. Learning effective self-planning. III. Theoretical application of practical matters. IV. Interpersonal communication and teamwork. V. Analysis of problems and recommendations. VI. Awareness of Ethics as a global citizen.			
Subject Departmental core competences			
A. Students can demonstrate that they have program basic knowledge of business and management.(ratio:50.00) B. Students can demonstrate that they have capability in professional knowledge expression. (ratio:50.00)			
Subject Schoolwide essential virtues			
5. Independent thinking. (ratio:80.00) 8. A sense of aesthetic appreciation. (ratio:20.00)			

Course Introduction	The course provides an introduction to statistical concepts and techniques with application in business. Topics include graphical and tabular presentation of data, measure of center tendency and dispersion, introduction to probability, random variables, discrete and continuous distributions and sampling distribution.
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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	To comprehend the methods of descriptive statistics	Cognitive
2	To comprehend the concepts and applications of normal distribution	Cognitive
3	To acquaint the concepts and applications of sampling distribution	Cognitive
4	To familiarize students with the concepts of estimation and hypothesis testing	Cognitive

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

No.	Core Competences	Essential Virtues	Teaching Methods	Assessment
1	AB	58	Lecture, Practicum, Experience	Testing, Study Assignments, Activity Participation
2	AB	58	Lecture, Practicum, Experience	Testing, Study Assignments
3	AB	58	Lecture, Experience	Testing, Study Assignments
4	AB	58	Lecture, Practicum, Experience	Testing, Study Assignments

Course Schedule			
Week	Date	Course Contents	Note
1	110/09/22 ~ 110/09/28	Statistics, Data, and Statistical Thinking	
2	110/09/29 ~ 110/10/05	Graphical Methods for Describing Qualitative Data	
3	110/10/06 ~ 110/10/12	Graphical Methods for Describing Qualitative Data	
4	110/10/13 ~ 110/10/19	Numerical measures of Central Tendency	
5	110/10/20 ~ 110/10/26	Numerical measures of Variability	
6	110/10/27 ~ 110/11/02	Probability Distribution Concepts	
7	110/11/03 ~ 110/11/09	Random Variables	
8	110/11/10 ~ 110/11/16	Probability Distribution for Discrete Random Variable	
9	110/11/17 ~ 110/11/23	Midterm Exam Week	
10	110/11/24 ~ 110/11/30	The Normal distribution	
11	110/12/01 ~ 110/12/07	The Sampling distribution	
12	110/12/08 ~ 110/12/14	The Sampling distribution	
13	110/12/15 ~ 110/12/21	The Central Limit Theorem	
14	110/12/22 ~ 110/12/28	Estimation with Confidence Intervals	
15	110/12/29 ~ 111/01/04	Large Sample Confidence Interval for a Population Mean	
16	111/01/05 ~ 111/01/11	Small Sample Confidence Interval for a Population Mean	
17	111/01/12 ~ 111/01/18	Large Sample Confidence Interval for a Population Proportion	
18	111/01/19 ~ 111/01/25	Final Exam Week	
Requirement			
Teaching Facility		Computer, Projector	
Textbooks and Teaching Materials		Elementary Statistics: Picturing the World , 7th ed. 2019, by Ron Larson /Betsy Farber	

References	Essentials of Business Statistics 2014, Jaggia & Kelly, McGraw-Hill/Irwin
Number of Assignment(s)	4 (Filled in by assignment instructor only)
Grading Policy	<p>◆ Attendance : 5.0 % ◆ Mark of Usual : 15.0 % ◆ Midterm Exam : 40.0 %</p> <p>◆ Final Exam : 40.0 %</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>