

Bachelor of Business Administration

Basic Statistical Methods and Applications

Course Title	Basic Statistical Methods and Applications		
Course Code	BUS208C	Course Type	Core Foundation
Credit	3	Contact Hours	45
Prerequisites	MAT121C or MAT150	Co-Requisites	None
Duration	15 weeks	Class Type	Lecture

SolBridge GACCS Objectives	%	Learning Objectives
1. Global Perspective	35	1. Explain the importance and applications of statistics to business
2. Asian Expertise	10	2. Ability to understand data and explain differences between quantitative and qualitative data with examples
3. Creative Management Mind	30	3. Define and demonstrate use of data sets, mean, median, mode, standard deviation, and variance
4. Cross Cultural Communication	10	4. Interpret numerical and visual presentation of data including tables, frequency distributions, histograms, etc.
5. Social Responsibility 15 5.		5. Ability to explain the probability of outcomes
		6. Knowledge of discrete and continuous probability distributions, especially normal distribution
		7. Ability to manage a few key data sampling methods such as random, panel and cluster etc.
		8. Demonstrate application of hypotheses testing to population parameters
		9. Demonstrating comparisons for means and proportions
		10. Understanding of simple linear regression, including dependent and independent variables, slope
		11. Ability to use PC apps or software for statistical applications such as Excel and/or SPSS

Course Description

This course will contribute to all elements of the SolBridge mission. This will be specifically done by equipping students with the context covered in the text book and also the cases and articles covering wide range of topics. This course introduces students to deals with application of statistical methods to business problems. This course covers descriptive statistics, elementary probability, random variables and probability distributions, the binomial, Poisson, normal and "t" distributions; estimation and hypothesis testing; type I and II errors and their control

Learning and Teaching Structure

This course is an introductory course in statistics for students interested in business. It provides introduction to concepts in statistical methods and their applications to real world problems. Sessions will consist of lectures and diverse activities including but not limited to in-class exercises, computer-based exercises and cases. Through these activities students will develop statistical knowledge as well as mastery of the most relevant Excel statistical routines and functions. Students will get ample details of these activities with enough lead time for proper preparation.

The course will be conducted using Moodle (http://moodlex.solbridge.ac.kr), and all students must familiarize themselves with its usage. There will be no printed notes, and most of the distributed materials will be in electronic form. All the course materials will be posted in the Moodle including the assignments.

Assessment	%	Text and Materials	
Attendance	20	Title: Fundamental of Business Statistics, International Edition	
Assignments & Quizzes	30	Edition: 6th edition	
Midterm Examination	20	Author(s): Sweeney, Williams and Anderson	
Final Examination	30	Publisher: Cengage Learning (ISBN-10: 1-111-22127-8, ISBN-13: 978-1-111-22127-0)	

Course content by Week

1	Orientation, Course outline, Data and Statistics
2-3	Descriptive Statistics: Tabular, Graphical Presentations and Numerical Measures
4-6	Introduction to Probability, Discrete and Continuous Probability Distributions
7	Review and Mid-term Examination
8-10	Sampling Distributions, Interval Estimation and Hypothesis Tests
11	Comparisons Involving Means, Experimental Design and Analysis of Variance
12	Comparisons Involving Proportions and a Test of Independence
13-14	Simple Linear Regression and Multiple Regression
15	Review and Final Exam