

BUS111, Statistics I

3 Credits, 3 hours Lecture, 2 hours Lab

Course Description

Students are introduced to basic statistical concepts and procedures used to solve business problems. Topics include: data graphics and charts; measures of central tendency and dispersion; elementary probability; probability and sampling distributions; interval estimation; hypothesis testing about the mean and proportion, ANOVA, chi-square test, correlation and linear regression analysis. Students will also develop competence in the use of data analysis software.

Pre and Co-requisites

BUS 110 Business Mathematics

Course Learning Outcomes (CLOs)

Upon successful completion of the course, the student shall be able to:

CLO1 Arrange data sets and represent them using a number of organizational methods.

CLO2 Determine descriptive statistics of data including the mean, mode, median, variance and standard deviation.

CLO3 Calculate the probability that any given event may occur.

CLO4 Determine and apply the discrete and continuous probability distributions including the binomial distribution, the normal distribution, sampling distributions and the central limit theory.

CLO5 Utilize inferential statistics including hypothesis testing about the mean and proportion, ANOVA, chi-square test, correlation, and linear regression analysis.

CLO6 Perform statistical analysis of data with Microsoft Excel.

Evaluation

Assessment Type	Percentage
Participation	5%
Assignments	10%
Quizzes	25%
Labs and Tutorials	10%
Midterm Exam	25%
Final Exam	25%
Total	100%

Course Completion Requirements

Minimum passing mark of 50% or D is required.

Grading Scale

4.0 Grade Scale	Alpha Grade	Percentage Grade
4.0	A+	93-100
4.0	A	85-92.9
3.7	A-	80-84.9
3.3	B+	77-79.9
3.0	B	74-76.9
2.7	B-	70-73.9
2.3	C+	67-69.9
2.0	C	64-66.9
1.7	C-	60-63.9
1.3	D+	55-59.9
1.0	*D	50-54.9
0.0	F	0-49.9

Land Acknowledgement

We respectfully acknowledge that Keyano College is on Treaty No. 8 Territory, the ancestral and traditional territory of the Cree, Dene, and Métis people.

Review Date: March 4, 2024

Every effort has been made to ensure that information in this course outline is accurate at the time of publication. Keyano College reserves the right to change courses if it becomes necessary so that course content remains relevant. In such cases, the instructor will give the students clear and timely notice of the changes.

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