

STAT 244 Syllabus

- **University** : University of Saskatchewan
- **Academic Term** : Fall 2023
- **Class Room** : SP College in Muenster (1:00 pm – 3:50 pm M)
 1. The St. Peters College campus is situated on Treaty 6 Territory and the Homeland of the Metis. We pay our respects to the First Nations and Metis ancestors of this place and reaffirm our relationship with one another.
- **Lab Room** : SP College in Muenster (4:00 pm – 5:20 pm M)
- **Instructor** : Dr. Osama Mohammad Al-Bataineh
- **Office** : McLean Hall, Rm 137, Univ of Sask.
- **Office Hours** :
 1. Monday (10:00 am – 12:00 pm) in Room 118 (Faculty Office in SP Coll.).
- **Instructor Email** : osb907@mail.usask.ca
- **Textbook** : *Introduction to Probability and Statistics*. Mendenhall, Beaver, Beaver, Ahmed, 3rd, or 4th Can edition.

Grades Distribution

- **Midterm** :
 1. Monday Oct 16, 2023, 18%.
- **Quizzes** : 16% (4% each)
 1. Monday Sep 18, 2023.
 2. Monday Oct 2, 2023.
 3. Monday Nov 13, 2023.
 4. Monday Nov 27, 2023.
- **Assignments** : 16% (4 assignments – 4% each).
- **Final Exam** : TBA, 50%.

Course Material

- **Chapters 1, 2 and 3** : Describing data.
- **Chapter 4** : Probability distributions.
- **Chapter 5** : Discrete distributions.
- **Chapter 6** : Normal probability distribution.
- **Chapter 7** : Sampling distributions.
- **Chapter 8** : Large sample estimation.
- **Chapter 9** : large sample tests of hypotheses.
- **Chapter 10** : Inference from small samples.
- **Chapter 11** : Analysis of variance.
- **Chapter 12** : Linear regression and correlation.
- **Chapter 14** : Analysis of Categorical Data.
- **Chapter 15** : Nonparametric Statistics.

Learning Objectives

- By the completion of this course, students will be expected to :
 1. Describe the roles that statistics serves in real life problems, including industry, public health, epidemiology and clinical research.
 2. Identify properties of data sets including the level of measurement for each variable and apply descriptive statistics to summarize the data according to its measurement type.
 3. Identify and implement appropriate statistical techniques (including one and two-sample hypotheses tests, ANOVA, simple regression, and several non-parametric methods) for analyzing data sets.

August 17, 2023