



Birzeit Univeristy
Mathematics Department
First Semester 2024/2025
STAT 3331 – STATISTICAL INFERENCE
Course Outline

Classes / Instructors / Office Hours:

- **Classes:** Check Ritaj.
- **Instructor:** Dr. Hani Kabajah
- **Office Hours:** Check Ritaj.

Textbook:

- R. V. Hogg and A. T. Craig. **Introduction to Mathematical Statistics**, 5th edition, Prentice-Hall, 1995.

References:

- D. Wackerly, W. Mendenhall, and R. L. Scheaffer, **Mathematical Statistics with Applications**, 7th edition, Thomson Learning, 2008.
- I. Miller and M. Miller, **John E. Freund's Mathematical Statistics with Applications**, 8th edition, Pearson, 2014.

Grading Policy:

• Classwork / Homework	15 %
• Midterm Exam	35 %
• Final Exam	50 %

Dates / Topics of Evaluations:

- **The dates and topics of all evaluations will be announced on Ritaj or ITC.**
Check Ritaj and ITC continuously!

Notes:

- You must attend all lectures.
- You are highly encouraged to take notes during the lecture.
- You need to bring a scientific calculator for all lectures and exams.
- Further notes, material, and information will be posted on Ritaj or ITC.
Check Ritaj and ITC continuously!
- There is no makeup for the Midterm Exam.
If your absence excuse is accepted the university formula will be applied!
- There is no early Final Exam.
Make your plans to take the Final Exam on time!

In the following you can find:

- The lectures planned for each topic (where 1 lecture stands for 80 minutes).
- **Textbook Exercises (at the end of each section) are very useful for practice.**
- **The best way of studying is to solve the questions after each section.**

Topics:

Lecture	Chapter	Title
1 – 5	Chapter 5	Limiting Distributions
6 – 10	Chapter 6	Introduction to Statistical Inference
11 – 15	Chapter 7	Sufficient Statistics
16 – 20	Chapter 8	More about Estimation
21 – 24	Chapter 9	Theory of Statistical Tests
25 – 28	Chapter 10	Inferences About Normal Models