Course Description Form – Biostatistics

Course Name:	Health Institutions Management
Course Code:	To be determined by the Scientific Department
Semester / Year:	Second Course 2025–2026
Date of Preparation:	25/2/2026
Available Attendance Forms:	In-person classroom attendance
Total Study Hours / Units:	4 Hours / 4 Units
Course Coordinator:	Asst. Prof. Marwa Haider Ghazi
Email:	mh7610758@gmail.com

Course Objectives

- Provide students with solid foundational knowledge in key statistical concepts and terminology.
- Develop students' ability to collect, organize, tabulate, and present data using statistical measures such as central tendency and dispersion.
- Enable students to apply analytical statistical methods, select appropriate tests, analyze relationships between variables, and make data-based decisions.

Teaching and Learning Strategies

- Interactive lecture with structured explanation and applied examples.
- Scientific dialogue and group discussion to enhance critical thinking.
- Use of modern educational technologies and statistical software.
- Use of academic references and scientific databases.
- Practical applications and problem-solving exercises.

Course Structure

Week	Hours	Learning Outcomes	Topic	Learning Method	Assessment
1	4	Basic statistical concepts	Nature of Statistics	Interactive lecture	Participation
2	4	Statistical terminology	Concepts & Terms	Theory + case studies	Homework + activity

3	4	Data collection & organization	Data Collection	Lecture + exercises	Quiz
4	4	Tabular presentation	Graphs & Charts	Discussion + lecture	Applied assignment
5	4	Frequency distributions	Frequency Tables	Lecture + examples	Quiz + participation
6	4	Statistical symbols	Mathematical Terms	Lecture	Homework + participation
7	4	Comprehensive review	Exercises & Review	Lecture + group review	Exercises
8	4	Central tendency measures	Measures of Central Tendency	Applied examples	Assignment
9	4	Software applications	Statistical Software	Lecture + discussion	Participation
10	4	Midterm evaluation	Midterm Exam	Review	Midterm Exam
11	4	Dispersion measures	Measures of Dispersion	Lecture + application	Quiz
12	4	Quantitative relationships	Simple Correlation	Theory + activities	Homework
13	4	Rank relationships	Rank Correlation	Discussion + lecture	Project
14	4	Statistical testing	Statistical Tests	Lecture + discussion	Assignment
15	4	Final evaluation	Final Exam	Review	Final Exam

Course Evaluation (100 Marks)

- In-class assignments: 10 marks
- Quizzes: 10 marks
- Reports: 10 marks
- Homework: 10 marks

- Midterm Exam: 10 marks
- Final Exam: 50 marks
- Total: 100 marks

Learning Resources

Required Textbook: None specified

- Recommended References:

1. Principles of Statistics – Dr. Khashi Mahmoud Al-Rawi
2. Statistical Data Analysis – Prof. Dr. Amani Mousa Mohammed
3. Biostatistics – Prof. Iyad Mohammed Al-Houbi