



**Kuwait University**  
**College of Business Administration**  
**Information Systems & Operation Management**  
**Department**



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**Course Syllabus – Spring 2022**  
**STAT 120 – Principles of Business Statistics**  
**Dr. Abdullah Alhauli**

***Lecture Time and Location:***

**Section 06A**      Sun / Tues / Thurs      11:00 AM – 11:50 AM      Room C2 1022

***Contact Information:***

**Location:** ISOM Department

**Email:** Abdullah.Alhauli@ku.edu.kw

**Office:** 2nd floor, B – 1023

**Office Hours:** Sunday-Tuesday-Thursday: 12:00 – 12:50 PM & 3:00 – 3:30 PM

***Teaching Assistant:***

Name: Dalal Alodah

Location:

Email: dalal.alodah@ku.edu.kw

Tutorial: Monday 12:30–1:45 PM, Tuesday 12:00–1:00 PM, or Wednesday 12:30–1:45 PM

***Course Description:***

The course provides an introduction to statistical concepts and techniques with application in business. Topics include graphical and tabular presentation of data, measure of center tendency and dispersion, introduction to probability, random variables, discrete and continuous distributions and sampling distribution (Prerequisite QMIS 110).

***Course Learning Objectives:***

This course aims to provide students with basic concepts of statistics, descriptive tools, principles of probability and probability distributions to be able to apply in the business world. The course develops the basic skills of solving statistical problems with computer based applications whenever possible. At the end of this course, students should be able to:

- Organize, summarize, and interpret data in tabular, graphical, and pictorial formats.
- Understand concepts of primary and secondary data, classification of data, measures of central tendency (Arithmetic mean, median, mode, geometric mean and harmonic mean) with simple applications, absolute and relative measures of dispersion (range, quartile deviation, mean deviation, standard deviation and variance) with simple applications.
- Understand how to analyze and interpret data.
- Understand the basic rules of probability.
- Use the normal distribution as a model for continuous variables.

***Textbook:***

**Title:** Essential of Business Statistics

**Edition:** 5<sup>th</sup> Edition

**Authors:** Bruce Bowerman, Richard O'Connell, Emily Murphree, Burdeane Orris

### **Grading:**

The scores in this course will be the weighted average of the following items:

| Description          | Weight |
|----------------------|--------|
| Participation        | 10%    |
| Quizzes (5 out of 6) | 50%    |
| Final Exam           | 40%    |
| Total                | 100%   |

### **Grade Distribution:**

| Grade | Range         | Points | Grade | Range         | Points |
|-------|---------------|--------|-------|---------------|--------|
| A     | ≥ 94          | 4.00   | C     | ≥ 73 and < 77 | 2.00   |
| A-    | ≥ 90 and < 94 | 3.67   | C-    | ≥ 70 and < 73 | 1.70   |
| B+    | ≥ 87 and < 90 | 3.33   | D+    | ≥ 65 and < 70 | 1.30   |
| B     | ≥ 83 and < 87 | 3.00   | D     | ≥ 60 and < 65 | 1.00   |
| B-    | ≥ 80 and < 83 | 2.67   | F     | < 60          | 0.00   |
| C+    | ≥ 77 and < 80 | 2.33   |       |               |        |

### **Quizzes**

Quizzes will be given after finishing every chapter in the course. Quiz questions are a good reflection of what the final exam questions will look like. If you arrive late for an examination, you will be given the remaining amount of time to complete it. However, after the first student hands in her/his examination, late students cannot start the examination; these late students will receive a grade of zero on their quiz. I will drop the lowest quiz score you get from your total quizzes grade.

After a grade is posted (quizzes or final exam), you will have two days to discuss it with your instructor or teaching assistant (TA). After that, the grade is final and released.

### **Exams**

There is a unified comprehensive final exam in this course.

**Policies:** You are responsible for knowing these policies

- Attendance in this class is required. Every student in this course must abide by the Kuwait University Policy on Attendance (published in the Student Guide, Chapter 3, Section 13). A copy of the student guide can be accessed online on: [http://www.kuniv.edu/cs/groups/ku/documents/ku\\_content/kuw055940.pdf](http://www.kuniv.edu/cs/groups/ku/documents/ku_content/kuw055940.pdf).
- For each class meeting, please arrive sufficiently ahead of the official start time in order to collect any handouts or prior quizzes that have been graded and get yourself ready with your notes and papers. At the beginning of each lecture, I will take attendance. There will be a deduction of 0.5 points from your participation grade per each absence.
- University regulations governing absenteeism are applied to all students. This involves a first warning after 3 hours, a second warning after additional 3 hours absence and a failure notice for any absence beyond the six hours. **Each student is allowed two absences** (no questions asked), after that, each absence will be counted.
- Each student must turn silent his/her mobile at the beginning of class.

## Lectures Template

| #  | Week Day | Date      | Lecture Title   | Chapter             | Quiz   |
|----|----------|-----------|---|---------------------|--------|
| 1  | Sunday   | 6/3/2022  | Orientation   |                     |        |
| 2  | Tuesday  | 8/3/2022  | Basic Concepts  | Chapter 1           |        |
| 3  | Thursday | 10/3/2022 | Key Definitions   | Chapter 1           |        |
| 4  | Sunday   | 13/3/2022 | Frequency distribution definition                       | Chapter 2           |        |
| 5  | Tuesday  | 15/3/2022 | Frequency distribution charts and graphs (1)            | Chapter 2           |        |
| 6  | Thursday | 17/3/2022 | Frequency distribution charts and graphs (2)            | Chapter 2           |        |
| 7  | Sunday   | 20/3/2022 | Central tendency  | Chapter 3           | Quiz 1 |
| 8  | Tuesday  | 22/3/2022 | Measures of variation (1)                               | Chapter 3           |        |
| 9  | Thursday | 24/3/2022 | Measures of variation (2)                               | Chapter 3           |        |
| 10 | Sunday   | 27/3/2022 | Examples and Exercises                                  | Chapter 3           |        |
| 11 | Tuesday  | 29/3/2022 | Percentiles, Quartiles, and Box-and-Whiskers Displays   | Chapter 3           |        |
| 12 | Thursday | 31/3/2022 | Probability sample space and events                     | Chapter 4           | Quiz 2 |
| 13 | Sunday   | 3/4/2022  | Elementary probability rules                            | Chapter 4           |        |
| 14 | Tuesday  | 5/4/2022  | Elementary probability rules                            | Chapter 4           |        |
| 15 | Thursday | 7/4/2022  | Elementary probability rules - Addition rule 1, 2       | Chapter 4           |        |
| 16 | Sunday   | 10/4/2022 | Elementary probability rules - Addition rule 3, 4       | Chapter 4           |        |
| 17 | Tuesday  | 12/4/2022 | Conditional probability                                 | Chapter 4           | Quiz 3 |
| 18 | Thursday | 14/4/2022 | Conditional probability, and independence (1)           | Chapter 4           |        |
| 19 | Sunday   | 17/4/2022 | Conditional probability, and independence (2)           | Chapter 4           |        |
| 20 | Tuesday  | 19/4/2022 | Conditional probability, and independence (3)           | Chapter 4           |        |
| 21 | Thursday | 21/4/2022 | Bayes theorem (1)                                       | Chapter 4           |        |
| 22 | Sunday   | 24/4/2022 | Bayes theorem (2)                                       | Chapter 4           |        |
| 23 | Tuesday  | 26/4/2022 | Discrete probability and expected value                 | Chapter 5           |        |
| 24 | Thursday | 28/4/2022 | Discrete probability and expected value examples        | Chapter 5           | Quiz 4 |
| 25 | Sunday   | 1/5/2022  | No Class  |                     |        |
| 26 | Tuesday  | 3/5/2022  | No Class  |                     |        |
| 27 | Thursday | 5/5/2022  | No Class  |                     |        |
| 28 | Sunday   | 8/5/2022  | Variance and standard deviation of discrete probability | Chapter 5           |        |
| 29 | Tuesday  | 10/5/2022 | Binomial probability distribution (1)                   | Chapter 5           |        |
| 30 | Thursday | 12/5/2022 | Binomial probability distribution (2)                   | Chapter 5           |        |
| 31 | Sunday   | 15/5/2022 | Hypergeometric distribution                             | Chapter 5           |        |
| 32 | Tuesday  | 17/5/2022 | Normal probability distribution examples                | Chapter 5           |        |
| 33 | Thursday | 19/5/2022 | Continuous Probability distribution (1)                 | Chapter 6           |        |
| 34 | Sunday   | 22/5/2022 | Continuous Probability distribution (2)                 | Chapter 6           | Quiz 5 |
| 35 | Tuesday  | 24/5/2022 | Continuous Probability distribution (3)                 | Chapter 6           |        |
| 36 | Thursday | 26/5/2022 | Review  |                     |        |
| 37 | Sunday   | 29/5/2022 | Review  |                     | Quiz 6 |
| 38 | Tuesday  | 31/5/2022 | Review  |                     |        |
| 39 | Thursday | 2/6/2022  | Review  |                     |        |
| 40 | Tuesday  | 7/6/2022  | <b>Final Exam: From 11:00 AM – 1:00 PM</b>              | <b>All Chapters</b> |        |

- All dates (EXCEPT for the final) may change due to class circumstances and holidays.