# Introduction to Business Statistics (QUA 107)
## First Term (2020/2021) (1442H)

**Course description**

The course is designed for the purpose of providing an introduction to Business Statistics. This course basically deals with descriptive statistics, which will be the focus of the course with an abbreviated introduction to inferential statistics. The topics covered in the course include classifying, analyzing, and presenting numerical data; frequency distribution, averages, dispersion, basic probability, probability distributions, and Sampling Distributions.

**Course objectives**

The main purpose of this course is to provide basic knowledge about collecting, organizing, summarizing, describing, and presenting data to provide information, which are stated in numerical form, for the purpose of making effective business decisions.
The objectives of the course can be sated as follows:

- To provide the student with the basic concepts and terminology of statistical science, including graphical representation and descriptive measures.
- To cover different methods of arranging & tabulating and presenting data.
- To provide the student the basic concepts of probability theory.
- To understand the concept and importance of relationships between variables and to fit mathematical models.
- To understand and use Excel software for data analysis and decision making.
- To prepare the student to perform scientific interpretation of economic and social phenomena to assist various policy and decision makers.

**Required Materials** *(More Information on Page: 5)*

David M. Levine, Kathryn A. Szabat, David F. Stephan: **Business Statistics: A First Course, 7th Global Edition**, Pearson.
 **Textbook ISBN-13: 978-1-292-09593-6**
**MyLab** Statistics**:** You are required to purchase access to MyLab Statistics, if you fail to do so you will lose up to 20% of total course credit.
**Required Chapters: 1, 2, 3, 4, 5, and 6**

**Study Plan (5%)**
- In MyLab Statistics, each student will complete an individualized Study Plan that reflects their progress through the course material.
- Each **Section/ Chapter** of the textbook covered in class is associated with up to 4-6 Objectives, each objective is worth one Mastery Point.
- Each Objective may be practiced by using the Practice button in the Study Plan. *You will be graded based on the number of mastery points earned* and ***you can earn mastery points by successfully taking a Quiz Me.***
- If you are having trouble with a particular question, while you are in the problem, you may want to click Help Me Solve This, View an Example, or Textbook Pages.
- If you still need help, please post a question on the Discussion Forum for the assigned Chapter. Remember, working study Plan problems is the best preparation for the exams.

## Homework Assignment (5%)

- The assignments are drawn from the problems at the end of each textbook chapter and practice problems. You should correctly answer each question **prior to the posted due date**.
- Homework problems that are attempted and submitted **will NOT be accepted.**
- Make sure you perform well as possible on the Homework!

**Homework Schedule (Male & Female)**

| Homework | Start | | | End (Due Dates) | | |
|---|---|---|---|---|---|---|
| HW Ch1 | | 10/09/2020 | | | 19/09/2020 | |
| HW Ch2 | | 17/09/2020 | | | 26/09/2020 | |
| HW Ch3 | | 24/09/2020 | | | 03/10/2020 | |
| HW Ch4 | Thursday | 15/10/2020 | 6:00pm | Saturday | 24/10/2020 | 11:59pm |
| HW Ch5 | | 22/10/2020 | | | 31/10/2020 | |
| HW Ch6 | | 29/10/2020 | | | 07/11/2020 | |

## Quizzes (10%)

- Quizzes are given based on the timetable below "Quizzes Schedule". Students are expected to work on quizzes individually.
- These quizzes are provided as an aid for preparing for the midterm and the final exam.
- The quiz will contain *8-15 questions* and **you will only have 60 minutes to take the quiz**.
- The instructor reserves the right to utilize whatever format (true-false, multiple choice, fill in the blank, essay/short answer) or combination of formats he\she deems necessary and in the students' best interest.
- Remember, you only have one attempt and **your overall quizzes evaluation will be based on the best 3 out of 4 quizzes.**

**Quizzes Schedule (Male & Female)**

| Quizzes | Day | Date | Start | End |
|---|---|---|---|---|
| Quiz Ch2 | Sunday | 27/09/2020 | 8:00pm | 9:00pm |
| Quiz Ch1-3 | Tuesday | 06/10/2020 | 8:00pm | 9:00pm |
| Quiz Ch4 | Wednesday | 28/10/2020 | 8:00pm | 9:00pm |
| Quiz Ch4-5 | Tuesday | 10/11/2020 | 8:00pm | 9:00pm |

**Exams**

- There shall be **three** examinations given during this course, **two midterms and a final examination**.
- The 1st midterm is the 6th week–and the 2nd is the 11th week of the term.
- The instructor reserves the right to utilize whatever format (true-false, multiple choice, fill in the blank, essay/short answer) or combination of formats she deems necessary and in the students' best interest.
- There is no make-up for missed Midterm exams and Final exams. Students are expected to take the exams during the week they are given.
- Remember, you only have one attempt and all midterm/final exams are closed book!

**Exams Dates**

| Exam | Day | Date | From | To | Points |
|------|-----|------|------|----|--------|
| **First Midterm** | Wednesday | 07/10/2020 | 05:00pm | 06:30pm | 20% |
| **Second Midterm** | Wednesday | 11/11/2020 | 05:00pm | 06:30pm | 20% |
| **Final Exam** | Based on University Schedule | | | | 40% |

**Evaluation**

| Assessment Task | Proportion of Assessment |
|-----------------|--------------------------|
| Study Plan | 5% |
| Homework Assignment | 5% |
| Quizzes | 10% |
| **First** Midterm Exam | 20% |
| **Second** Midterm Exam | 20% |
| **Final** Exam | 40% |
| **Total** | **100%** |

**Attendance Policy**

- Regular and punctual attendance at all scheduled classes is expected from all students.
- Students may be denied entry to the final exam **if they miss more than 25% of classes.**

*This syllabus is subject to change by the Quantitative Analysis Department only at any time. Changes, if any, will be announced in class. Students will be held responsible for all changes.*

**Course outline**
- **Content of the Course and lectures Plan**

| Hours | Content | Assignments | | | |
|---|---|---|---|---|---|
| | | SP | HW | Quiz | Exam |
| 2 | **Getting Started** | 1 | 1 | None included | |
| 2 | **Ch1: Defining and Collecting Data**<br>• Defining Variables<br>• Collecting Data<br>• Types of Sampling Methods<br>• Types of Survey Errors | 1 | 1 | 1 | First Midterm Exam & Final Exam |
| 6 | **Ch2: Organizing and Visualizing Variables**<br>• Organizing Categorical Variables<br>• Organizing Numerical Variables.<br>• Visualizing Categorical Variables.<br>• Visualizing Numerical Variables. | 1 | 1 | 1 | |
| 6 | **Ch3: Numerical Descriptive Measures**<br>• Measures of Central Tendency<br>• Variation and Shape<br>• Exploring Numerical Data<br>• Numerical Descriptive Measures for Population | 1 | 1 | 1 | |
| **First Midterm (20 points)** | | | | | |
| 6 | **Ch4: Basic Probability**<br>• Basic Probability Concepts<br>• Conditional Probability<br>• Multiplication Rule | 1 | 1 | 1 | Second Midterm Exam & Final Exam |
| 6 | **Ch5: Discrete Probability Distributions**<br>• Expected Value and Variance, Standard Deviation of Discrete variable.<br>• Binomial Distribution<br>• Poisson Distribution | 1 | 1 | 1 | |
| **Second Midterm (20 points)** | | | | | |
| 6 | **Ch6: Continuous Probability Distributions**<br>• The Normal Distribution<br>• Evaluating Normality | 1 | 1 | 1 | Final Exam |
| 1 "if time allows" | **Ch7: Sampling Distributions**<br>Introduction to Sampling Distribution of the Mean | | | | |

## Required Materials

- **Title:** Business Statistics: A First Course, 7th Global Edition, Pearson
- **Authors:** Levine, Szabat, and Stephan
- **Textbook ISBN-13:** 978-1-292-09593-6
  - *Required Chapters: 1, 2, 3, 4, 5, and 6*

## MyLab Statistics

- In order to be able to work on the Study Plan, Homework, Quiz; the student **MUST** purchase MyLab Statistics Access Code **(which will INCULDE the eTextbook)**, if you fail to do so you will lose up to 20% of total course credit.
- MyLab Statistics is a platform that is connected to the student's LMS to enrichen the learning experience. It provides the student with access to the eTextbook, Example, and other multimedia material.

## Learning Management System Support (Blackboard Support)

- **Webpage:** https://daleel.ksu.edu.sa/ar
- **Tel#:** 00966 11 4677297
- **Tel#:** 00966 11 4675557
- **Email:** itsupport@ksu.edu.sa

## How to purchase the Book\ eBook\ MyLab Statistics Code

- **Student Fund Market** webpage *direct link*: https://salla.sa/student_fund/my-lab-statistics-a-first-course-global-7th-edition/p2130282455
- **Student Fund Market** webpage: https://salla.sa/student_fund
- **Student Fund Support Tel#:** +966540428743

## Activate your MyLab Statistics Code

In order to activate Code, You have to connect through your LMS.KSU.EDU.SA page and Select your section QUA_107, following these steps:

### *Step 1:*



### *Step 2:*



ابحث عن مادة QUA_107

*Step 3:*



*Step 4:*



## <u>Step 5:</u>

### Step 6:



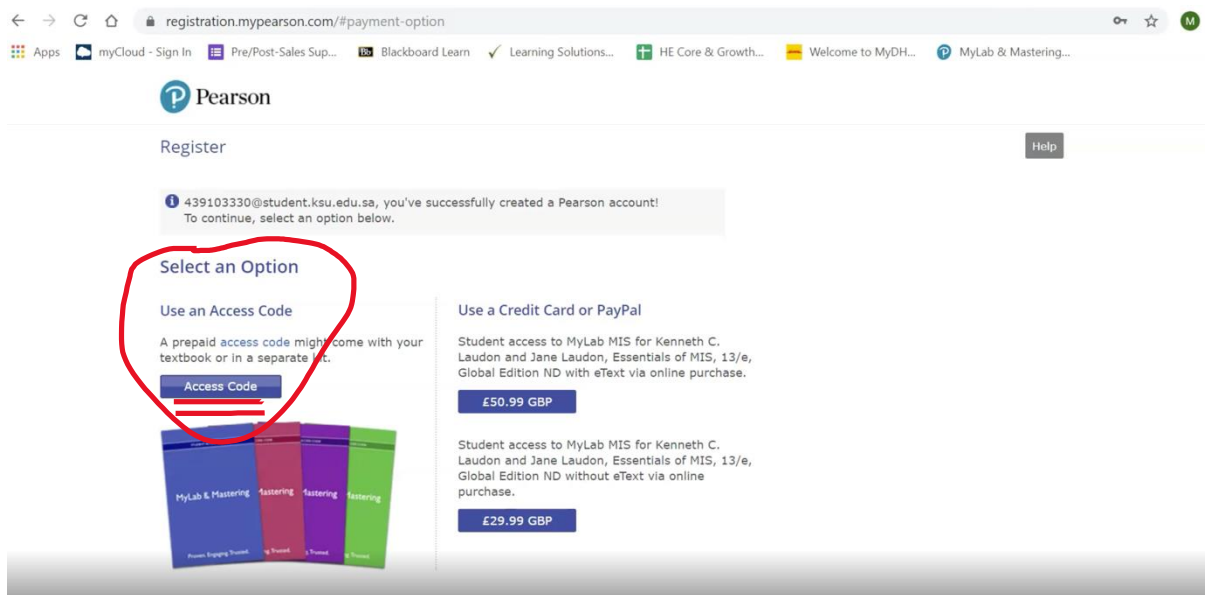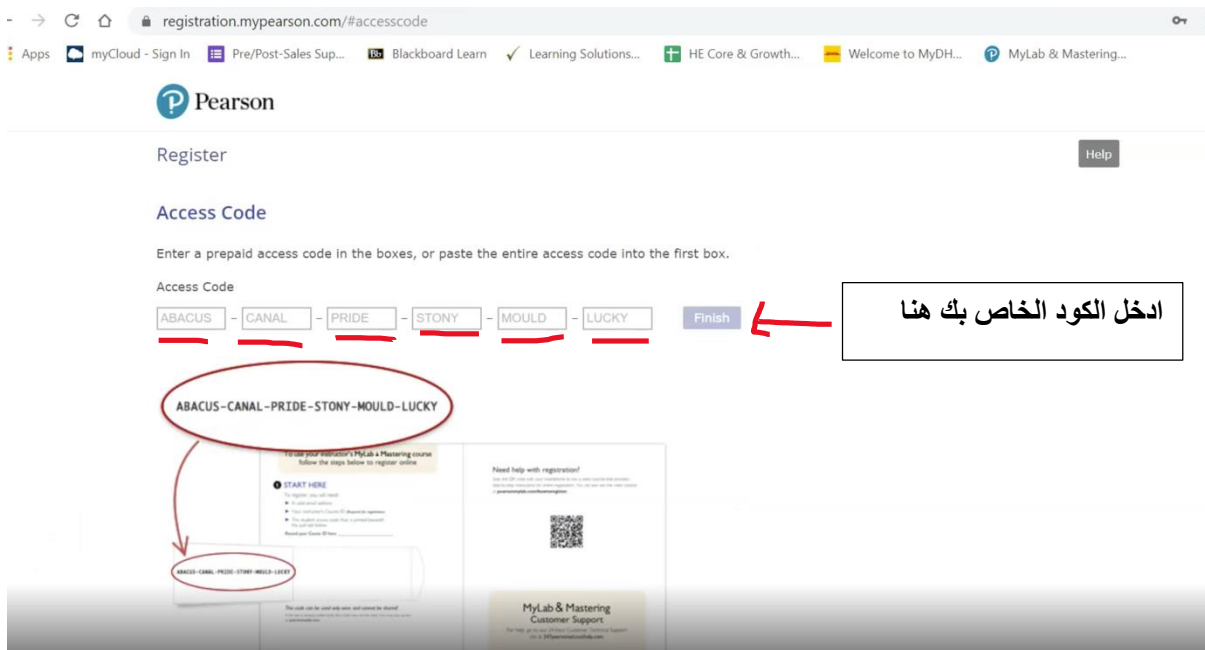### Step 7:

- **Use your KSU Student Email.**
- **Any other Emails will NOT be accepted; such as: Gmail, Yahoo, ... etc.**
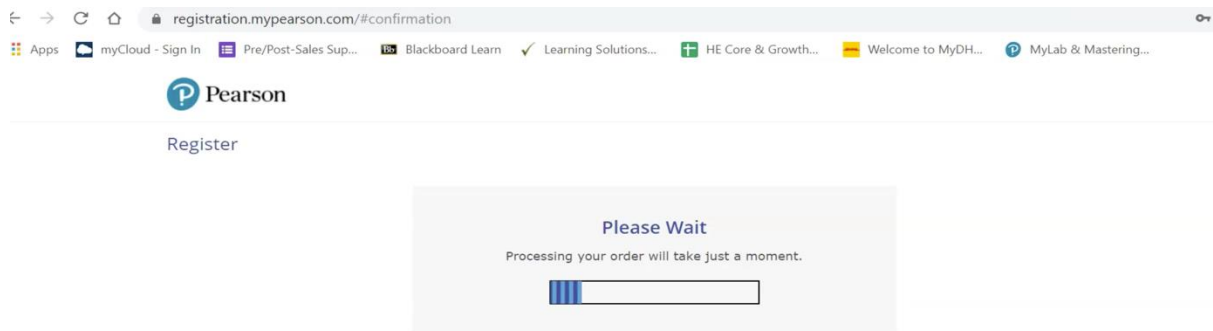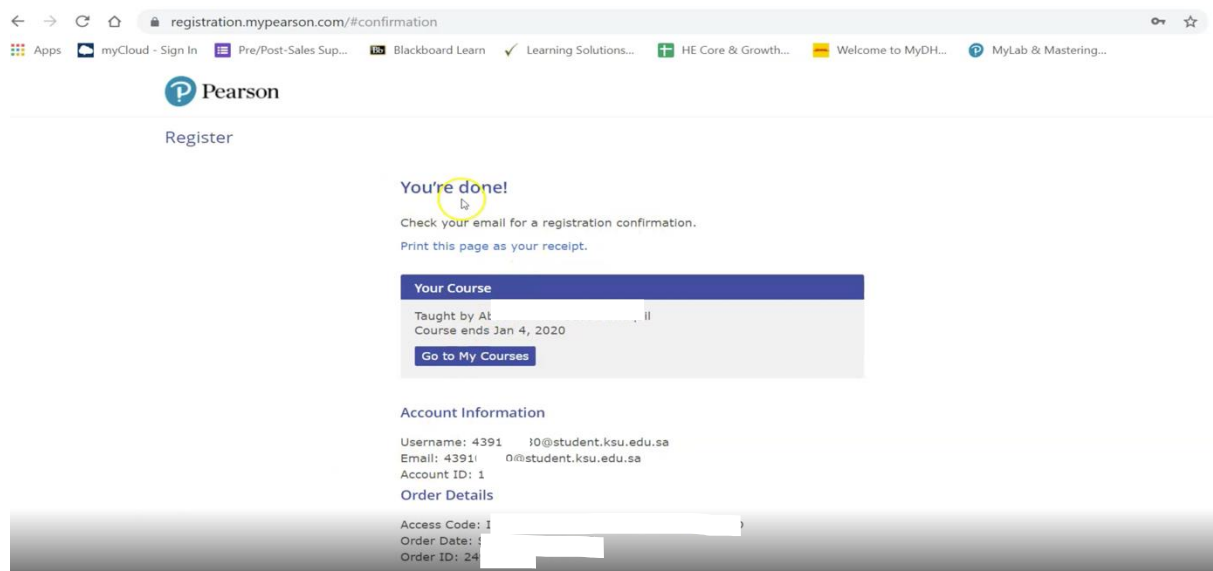
**King Saud University** جـــــامـــــعـــــة الملك سعود 1957

*Step 8:*



*Step 9:*



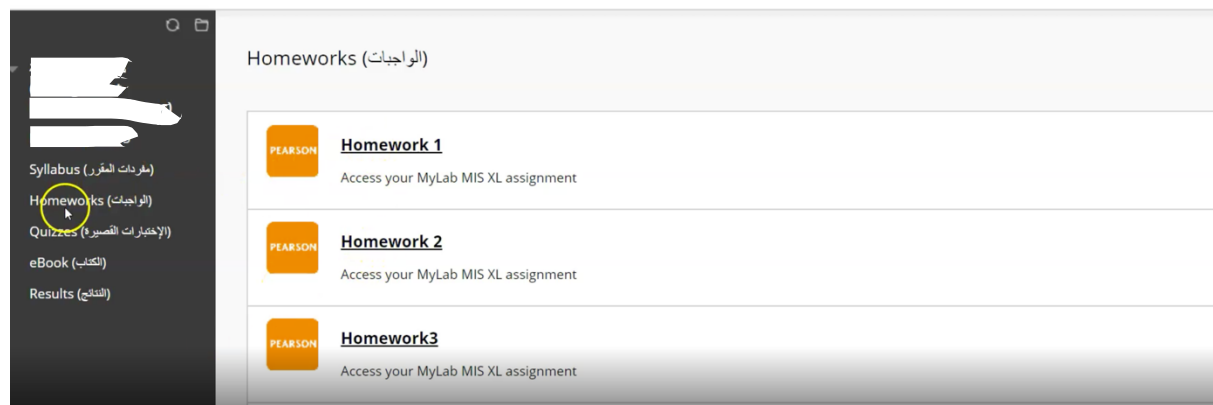ادخل الكود الخاص بك هنا
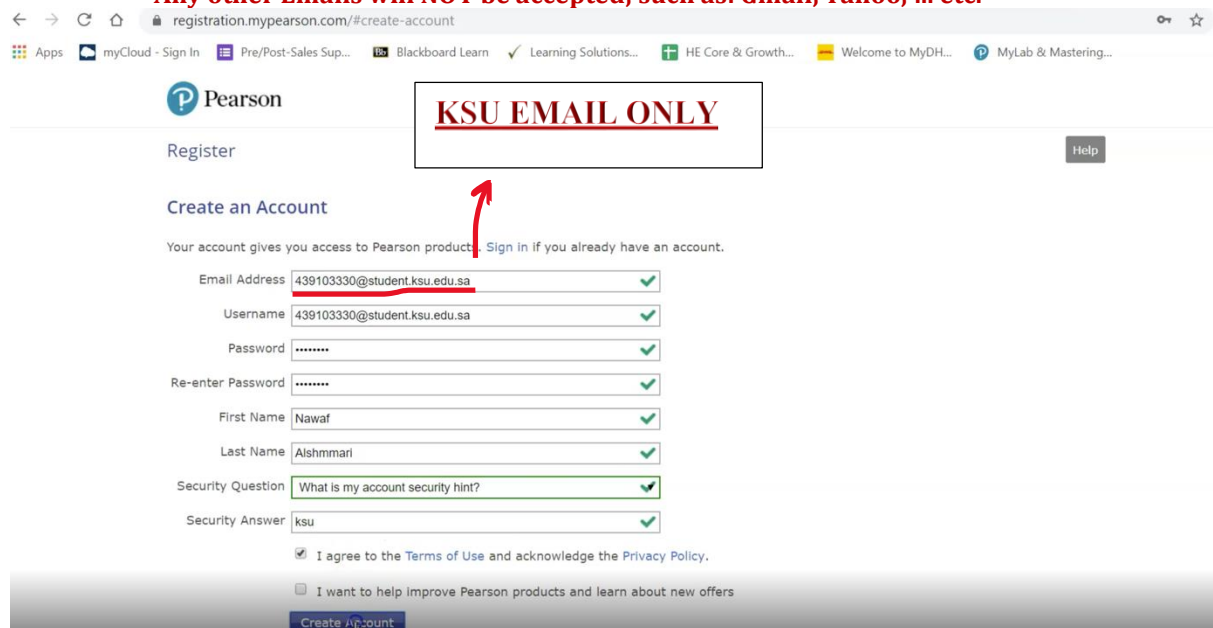
***Step 10:***
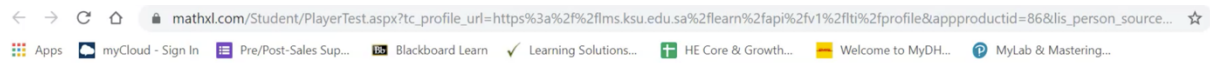


***Step 11:***



***Step 12:***

## Step 13:



### Prerequisite Warning

Before you can work on any remaining attempts on this assignment you must do the following:
- You must earn at least 5 of 5 MP on the Homework 2.

OK

## **Practice Exercises Information**

**King Saud University**
**College of Business Administration**
**Department of  Quantitative Analysis.**

### Teaching Assistance Schedule –   1st Semester 1442

**Instructor Name: Bandar F. Abu-Tubilah**
**Email: babutubilah@ksu.edu.sa**
**Cell number:0540027266**

| Time | 10:00AM-10:50AM | 11AM-11:50AM | 4PM-4:50PM |
|---|---|---|---|
| Sunday | 207Qua<br>Room: G3 | 207Qua<br>Room: G3 | 107Qua<br>Room:G3 |
| Monday | 207Qua<br>Room: G3 | 107Qua<br>Room: G3 | 207Qua<br>Room:G3 |
| Tuesday | 107Qua<br>Room: G3 | 207Qua<br>Room: G3 | 207Qua<br>Room:G3 |
| Wednesday | 107Qua<br>Room: G3 | 107Qua<br>Room: G31 | 107Qua<br>Room:G3 |
| Thursday | 207Qua<br>Room: G3 | 207Qua<br>Room: G3 | 107Qua<br>Room:G3 |

**Vice Deanship for Development & Quality**

| CBA VISION: | To be a leader in business education and research that contributes in building a knowledge-based economy. |
|---|---|
| CBA MISSION: | Creating a distinctive educational environment to prepare business professionals and leaders with international perspectives; conducting innovative research that contributes to the advancement of business knowledge and economic development; and building effective partnership with local and global communities. |

# طريقة التواصل مع استاذ المقرر عبر الايميل

- **وضع اسمك كاملاً**
- **وضع رقمك الجامعي**
- **وضع رقم ورمز المقرر**
- **استخدام الايميل الجامعي فقط لا غير**
- **وضع رقم الشعبة**
- **شرح الموضوع بشكل واضح وارفاق أي مستندات مساند**