

Probability and Statistics

Prepared by Dr. Faisal Hasan

Orientation Lecture

جامعة الجميع الذكية

تسعى لتكون الكيان الأول الذي يتبنى مبدأ المجتمع التعليمي
التعاوني ويقدم العلم مقابل العمل لتنمية وبناء المجتمعات.

STA 201

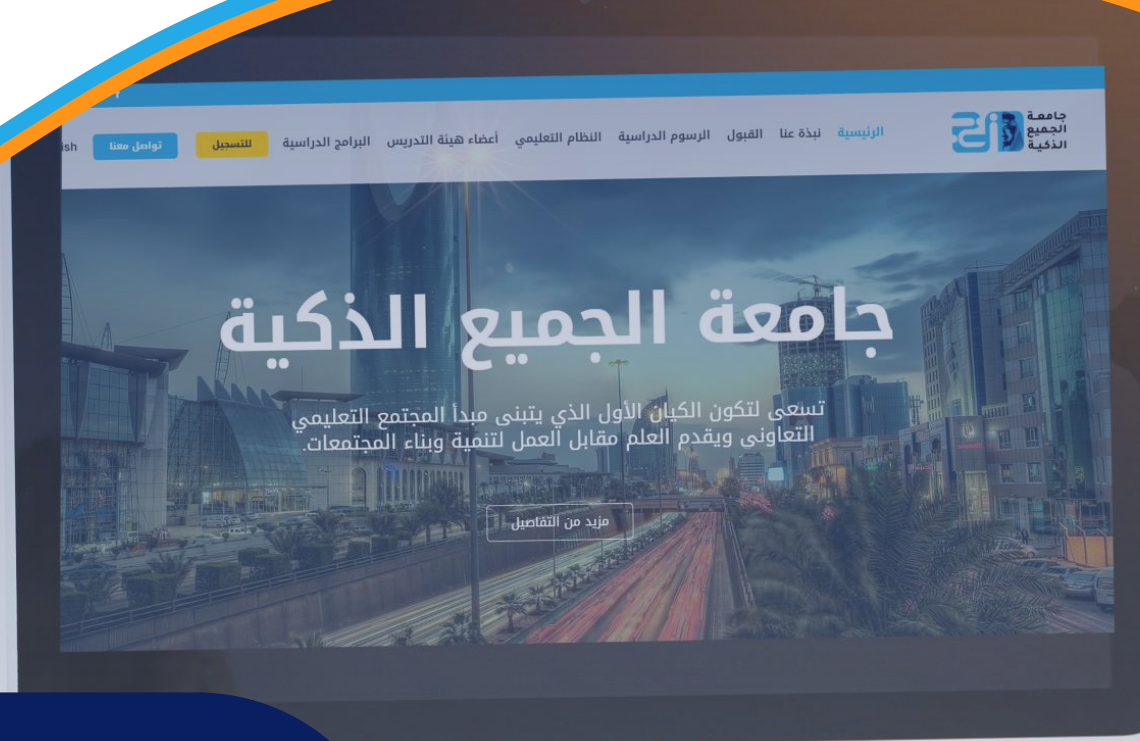
Probability and Statistics



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Probability and Statistics

- Chapter 1: Introduction To Statistics
- Chapter 2: Descriptive Statistics
- Chapter 3: Probability
- Chapter 4: Discrete Probability Distributions
- Chapter 5: Normal Probability Distributions
- Chapter 6: Confidence Intervals
- Chapter 7: Hypothesis Testing with One Sample
- Chapter 8: Hypothesis Testing with Two Samples
- Chapter 9: Correlation And Regression
- Chapter 10: Chi-Square Tests and The F -Distribution

Assessment Method

- Short Exam
- 80% marks
- Count of short Exam 10 (weekly)
- 8 marks for each short exam
- 20% Final examination

Required Textbook

- Elementary Statistics

William Navidi

Colorado School of Mines

Barry Monk

Middle Georgia State University

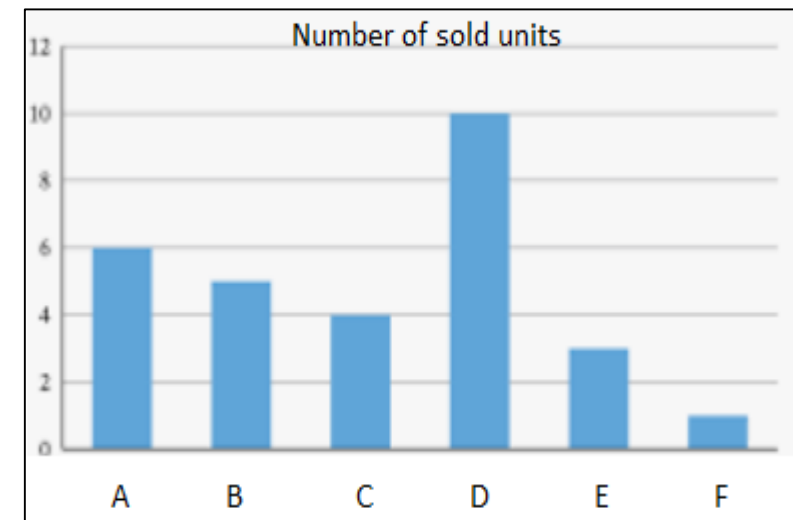


Definition of Statistics

Statistical knowledge helps you use the proper methods to collect the data, employ the correct analyses, and effectively present the results. Statistics is a crucial process behind how we make discoveries in science, make decisions based on data, and make predictions.

Definition of Statistics

Statistics is the science of collecting, organizing, analyzing, and interpreting data in order to make decisions.



Topics

- Chapter 1: Introduction To Statistics
- Chapter 2: Descriptive Statistics
- Chapter 3: Probability
- Chapter 4: Discrete Probability Distributions
- Chapter 5: Normal Probability Distributions
- Chapter 6: Confidence Intervals
- Chapter 7: Hypothesis Testing with One Sample
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General Tips For Studying Statistics

- 1: LISTEN During Lecture
- 2: Take Good Notes
- 3: Ask Questions
- 4: Listen When Others Ask Questions
- 5: Review Notes After Class
- 6: Do More Homework
- 7: Practice, Practice, Practice
- 8: Don't Forget Your Textbook.
- 9: Seek Help If You Need It
- 10: Have the Proper Attitude

In order to get something out of the class you need to listen while in class. Often this can be difficult to do but it is very important. Sometimes important ideas will not be written down on the board, but instead just spoken by the lecturer.

Try to write down everything that lecturer puts on presentation. It may seem easy when watching the lecturer, but it often is not so easy when it comes time for you to do it. A good set of notes will help remind you how to do these problems.

If you don't understand something then ask your lecturer.
Chances are you are not the only one who doesn't understand.

When other students ask questions make sure you listen to both the question and the answer. It may be that the student asking the question thought of something that you didn't think of.

After each class you should review your notes. Note the topics that you found confusing and formulate questions that you can ask your lecturer to help you understand the topic.

Do not limit yourself to just the homework that your lecturer assigns. The more problems that you work the better off you'll be.

Practice as much as possible. The only way to really learn how to do problems is work lots of them. The more you work, the better prepared you will be come exam time.

If you get stuck on a topic that was discussed in class do not forget that you do have a textbook. Often the text book will contain examples not worked in class and/or a different approach to a problem.

If you are having trouble with your math class you have many options open to you and you should take advantage of them.

Always do the best that you can. Do not try to do just enough to get by. You should always do the best that you can and strive for the best grade that you can possibly get.