

**Bronx C. College, CUNY**  
DEPARTMENT OF MATHEMATICS

MATH 23 : Probability & Statistics  
SYLLABUS (Spring 2018)

Prof. Rashidul Bari  
www.bari-science-lab.com  
Classroom Philosophy 33 (4-5:15 pm)

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(1) Office hours: Monday 5:30 - 6 pm or by appointment || Final: TBA || Last day to drop the class: April 16 || Note: I will upload every lecture on my YouTube Channel: Bari Science Lab. Textbook: Elementary Statistics by Allan Bluman (6th Edition).

(2)

About this course: Statistics and probability are not different sides of the same coin and I don't like to pretend like they are. However, in Math 23, statistics often uses probability distributions, as if they are different sides of the same coin. Keep that in mind that probability is independent of statistics.

(3) **Tentative Schedule:** Lecture 21, Exam 4, Quiz 19 and homework 18 (I want to see all exams, quizzes and homeworks in your folder).

Date	I will upload all 21 lectures on my Youtube Channel: Bari Science Lab	Homework Problems
1/29	Lecture 1: Descriptive and inferential statistics	No HW
1/31	Lecture 2: Frequency distribution & graph	<b>HW # 1</b> Show me a copy of the syllabus. Be sure to sign on the bottom. DUE: 2/5
2/5	<b>Quiz # 1(based on Lecture # 1 &amp; 2)</b> Lecture # 3: Frequency distribution & graph	<b>HW # 2:</b> Show me your marble notebook (with label : Name, Math 23, Prof. Bari, BCC) DUE : 2/7
2/7	<b>Quiz # 2 (based on Lecture # 3 )</b> Lecture # 4: Measure of Central Tendency	<b>HW # 3</b> Bring a folder (to keep your HW) with label : Name, Math 23, Prof. Bari, BCC. DUE : 2/14
2/12	No Class	
2/14 (wed)	<b>Quiz # 3(based on Lecture # )</b> Lecture # 5: Measure of Position	<b>HW # 4: Show me the copy of our textbook</b> <b>DUE : 2/21</b>
2/19 & 2/20	No Class	

2/21	<b>Quiz # 4 (based on Lecture # 3 )</b> Lecture # 6: Probability & counting rules I	<b>HW # 5:</b> Posted on the website ( <a href="http://www.bari-science-lab.com">www.bari-science-lab.com</a> ) DUE : 2/26
2/26	<b>Quiz # 5 (based on Lecture # 3 )</b> Lecture # 7: Probability & counting rules II	<b>HW # 6:</b> Posted on the website DUE : 2/28
2/28	<b>Quiz # 6 (based on Lecture # 3 )</b> Lecture # 8: Probability & counting rules III	<b>HW # 7:</b> Posted on the website DUE : 3/5
3/5	<b>Quiz # 7 (based on Lecture # 3 )</b> Lecture # 9: Probability & counting IV	<b>HW # 8:</b> Posted on the website DUE : 3/7
3/7	<b>Quiz # 8 (based on Lecture # 3 )</b> Lecture # 10: Probability & counting V	<b>HW # 9:</b> Posted on the website DUE : 3/14
<b>3/12</b>	<b>Exam # 1 (Based on Lecture 1-9)</b>	
3/14	<b>Quiz # 9 (based on Lecture # 3 )</b> Lecture # 11: Discrete Probability I	<b>HW # 10 :</b> Posted on the website DUE : 3/19
3/19	<b>Quiz # 10 (based on Lecture # 3 )</b> Lecture # 12: Discrete Probability II	<b>HW # 11:</b> Posted on the website DUE : 3/21
3/21	<b>Quiz # 11 (based on Lecture # 3 )</b> Lecture # 13: Normal Distribution I	<b>HW # 12:</b> Posted on the website DUE : 3/26
3/26	<b>Quiz # 12 (based on Lecture # 3 )</b> Lecture # 14: Normal Distribution II	<b>HW # 13:</b> Posted on the website DUE : 3/28
3/28	<b>Quiz # 13 (based on Lecture # 3 )</b> Lecture # 15: Confidence Interval	<b>HW # 14:</b> Posted on the website DUE : 4/16
4/2 & 4/4	No Class	
<b>4/9</b>	<b>Exam # 2 (Lecture 1-15)</b>	
4/11	No Class	
4/16	<b>Quiz # 14 (based on Lecture # 3 )</b> Lecture # 16: Confidence Interval II	<b>HW # 15:</b> Posted on the website DUE : 4/18
4/18	<b>Quiz # 15 (based on Lecture # 3 )</b> Lecture # 17: Hypothesis Testing	<b>HW # 16 :</b> Posted on the website

		DUE : 4/23
4/23	<b>Quiz # 16 (based on Lecture # 3 )</b> Lecture # 18: Hypothesis Testing II	HW # 17: Posted on the website DUE : 4/25
4/25	<b>Quiz # 17 (based on Lecture # 3 )</b> Lecture # 19: Difference b/w two means	<b>HW # 18:</b> Posted on the website DUE : 4/30
4/30	<b>Quiz # 18 (based on Lecture # 3 )</b> Lecture # 20: Correlation & regression	<b>I will collect the Notebook. I will return your notebook on 5/9.</b>
5/7	<b>Exam # 3</b>	
5/9	<b>Quiz # 19 (based on Lecture # 3 )</b> Lecture # 21: Chi-Square Tests	
W5/14 & 5/16	Review for final	
<b>FINAL</b>	<b>TBA</b>	

You need to buy a marble or spiral notebook and a folder dedicated to the Math 23 class. I will collect your folder on 2/14 (see HW 3). I will leave the folder on my table everyday. As soon as you enter class, put your Homework inside your folder. It is your responsibility to keep your HW in your folder and I will check the folder on every weekend. I will return you the folder on 5/9 (with a grade).

Classwork - You are expected to attend class regularly and take notes. Please note that there are no make-up HW, quiz or exams scheduled. If you miss an exam (does not apply for quiz or HW), and if you promptly provide me, in writing, a verifiable & acceptable excuse for your absence, then you are required to retake it. Extraordinary situations (CUNY sponsored activities, serious health problems, etc.) will be handled on an individual basis but you must communicate with me ASAP. Please remember that it is your responsibility to initiate the procedure if you miss graded material.

If you miss the class you will miss the quiz because there will be a quiz every day in the beginning of the class. Every Quiz is 10 minutes long. The main purpose of the quiz is to make you ready for the exam. I will assess you in 4 different ways – Quiz, Homework, Exams and the Final. There will be no make up for Quizzes. **Grading Policy:** There will be 3 class examinations, a final examination, 18 quizzes, 18 homework and notebook check (Notebook must have content on the first two pages and the page number of all 21 lectures) I will bring the folder to the class every day and it is your responsibility to put the HW inside your folder. I will upload all 21 lectures on my YouTube Channel: Bari Science Lab

Items	Percentage
Notebook check	5%

18 Homework (I will collect HW every class)	10%
19 Quizzes (Each Quiz in 20/25 minutes long)	15%
3 Exams (Full class time)	45%
Final (Final is 2 hours long)	25%

My name is \_\_\_\_\_, and I have read the syllabus, and agree to uphold all my responsibilities as a student in Math 23 (**Sign**) \_\_\_\_\_ Date :