MATH 376 LM (22081) **Introduction to Mathematical Statistics**

Fall, 2021 Tuesday, Thursday 10:00am -11:40 online

Text: *Introduction to Mathematical Statistics*, by Hogg , McKean and Craig; Pearson - 8^{th} Edition (However, the 7^{th} Edition will do fine).

The class will meet at the scheduled time using Blackboard Collaborate Ultra. Although you should attend regularly and be on time, each class will be recorded and you will be able to download the recordings from the Blackboard page. During the class you can use the Chat and Hand-Raise features to ask questions.

The classes will use slides that I have prepared. These slides will be posted on this website. Also posted here, in addition to this class information document, is the syllabus with the list of homework problems.

Grading: There will be two in class tests during the term. Together they will count for 50 % of the grade. At this point, it is expected that one of the tests will be given in person at school. If this occurs, then the in person test will be weighted more heavily than the other. In addition the cumulative homework grade will count 15 %. The final counts 35 % of the grade. You should be warned that there are no makeups. Instead the remaining work will simply be counted more heavily.

I will prepare for each student a folder in my Dropbox site and I will send each of you separately the link that you will use to access your Dropbox folder. When you do your homework on paper, you should scan the results obtaining either pictures or, preferably, a pdf, which you should then load (i.e. drag-and-drop) into your folder from which I will be able to access your work. A similar procedure will be used for the tests (except for the proposed in-person test). Into each folder I will put a Doc file which I will use to comment on your homework and to communicate your test grades to you.

Office Hours: I will be holding virtual office hours on Friday mornings from 10-11:20 am.

Ethan Akin,

Email: eakin@ccny.cuny.edu

COURSE LEARNING OUTCOMES

Mathematics 376

COURSE LEARNING OUTCOMES
Please describe below all learning outcomes of the course, and indicate the letter(s) of the corresponding Departmental Learning Outcome(s) (see list at bottom) in the column at right.

After taking this course, the student should be able to:	Contributes to Departmental Learning Outcome(s):
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1. Understand the statistical and mathematical concepts underlying standard statistical methodology.	a, e(1), e(2)
2. Use probability theory, asymptotic expansions and approximations, and inequalities to derive properties of statistical procedures.	a, e(1), e(2)
3. Develop an intuition for the models and methodology..	c

COURSE ASSESSMENT TOOLS

1. The average of class examinations and graded homeworks: 60% of grade
2. Comprehensive written final exam: 40% of grade.

DEPARTMENTAL LEARNING OUTCOMES

The mathematics department, in its varied courses, aims to teach students to

a. perform numeric and symbolic computations
b. construct and apply symbolic and graphical representations of functions
c. model real-life problems mathematically
d use technology appropriately to analyze mathematical problems
e. state (e1) and apply (e2) mathematical definitions and theorems
f. prove fundamental theorems
g. construct and present (generally in writing, but, occasionally, orally) a rigorous mathematical argument.