Math 17300-1XB: Introduction to Probability and Statistics, Summer 2020

Contact Information

Instructor:	Dr. John Adamski
Email:	`jadamski@ccny.cuny.edu`
Office Hours	MW 1:30-3:30pm (Zoom)

Course Information

When:	MTWTh 10:30am-12:10pm
Zoom ID:	`891 064 7436`
Text:	Mendenhall, Beaver, Beaver, *Introduction to Probability and Statistics*. Fourteenth Edition, 2013. Brooks Cole. ISBN 1133103758
	We will cover the following sections: Introduction, 1.5, 2.2-2.4, 4.2-4.8, 5.2, 5.4, 6.1-6.4, 7.4-7.6, 8.3-8.7, 8.9, 9.1-9.6, 10.1-10.3
Website:	`johnadamski.com/173summer2020.html`
Blackboard:	Will be used for posting grades
Be Honest:	`https://www.ccny.cuny.edu/about/integrity`

Topics

Descriptive statistics and frequency histograms; measures of location and dispersion; elementary probability; permutations and combinations; multiplication rule and conditional probability; Bayes' Theorem; independent events; random variables, expected values; applications to binomial, hypergeometric, uniform and normal distributions; the Central Limit Theorem; testing statistical hypotheses; correlation; linear regression and least squares.

Grades

20%	Exam 1	6/23
20%	Exam 2	7/14
20%	Project(s)	Date(s) TBD
40%	Final Exam	7/22, 10:30am-12:10pm EST
+5%	Attendance with video	

Overview

Each day in lecture we will learn new material, following the schedule posted to our class website, `http://johnadamski.com/173summer2020`. As soon as each section of the textbook is completed, the exercises at the end of that section become officially assigned with a due date approximately two classes later. A list of all assignments is posted to our class website, along with solutions. These assignments will not be collected, but it is essential essential to your understanding that you work through them promptly and check your solutions against mine. You are encouraged to ask questions at the beginning of class about any exercises you do not fully understand.

For individual projects, I will help students obtain datasets and students will perform some basic statistical analysis based on what they've learned in the course. Exams will be based on assigned exercises. Exam 1 will cover the material from weeks 1-3. Exam 2 will cover the material from weeks 4-6. The Final Exam will cover the material from weeks 1-7. The dates of all exams are listed above. No notes can be used during exams. No make-up exams will be given.

Calculators

You are required to obtain and know how to use a scientific calculator capable of handling square-root expressions and exponential expressions (e.g. $\sqrt{2}$, 1.06^3, etc.). An affordable calculator that I recommend is the TI-30X IIS. It sells for $15.99 on Amazon. Graphing calculators can also be used. Your cellphone cannot be used as a calculator during a quiz/exam.

Attendance

Students are expected to attend and participate in every online class. It is your responsibility to know what happens in lectures. The best way to fulfill this obligation is to attend every lecture. I will take attendance at each class meeting because I have a duty to maintain accurate records relating to our course. I expect you to help me maintain accurate records. Up to 5% extra credit will be given to students who keep their video cameras on during lectures.

Disabilities

Under the Americans with Disabilities Act, all members of the campus community are entitled to equal access to the programs and activities of The City College of New York. If you have (or think that you might have) a disability that may impact your participation in the activities, coursework, or assessment of this course, you may be entitled to accommodations through the AccessAbility Center/Student Disability Services. You can contact them at 212-650-5913, or at `disabilityservices@ccny.cuny.edu`.