

MATH 17300-FG: INTRODUCTION TO PROBABILITY AND STATISTICS, FALL 2020

CONTACT INFORMATION

Instructor: Dr. John Adamski
Email: jadamski@ccny.cuny.edu
Office Hours W 2:30-3:30 pm

COURSE INFORMATION

When: MW 4-5:40 pm
Zoom: <https://ccny.zoom.us/j/8910647436>
(This same link will be used for both lectures and office hours)
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/173f2020.html
Blackboard: Will be used for exams and 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 | 10/7 |
| 20% | Exam 2 | 11/18 |
| 20% | Project | TBD |
| 40% | Final Exam | TBD |

OVERVIEW

Each day in lecture we will learn new material, following the schedule posted to our [class website](#). 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 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 and will be taken through our Blackboard course site. Detailed instructions will be given. Exam 1 will cover the material from weeks 1-6. Exam 2 will cover the material from weeks 7-12. The Final Exam will cover the material from weeks 1-16. Tentative dates for exams are listed above. If any changes are made, those changes will be announced in class and this document will be updated. No make-up exams will be given.

CALCULATORS AND FORMULA SHEETS

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 an exam.

A short sheet of formulas will be provided for exams. You will be able to view the formula sheet in advance of the exams.

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. If you are able to share video during online meetings, you are expected to do so. This is not only good etiquette, but will greatly improve our teaching/learning environment.

ACADEMIC INTEGRITY

From [The City College's website](#):

Academic integrity is an essential part of the pursuit of truth, and of your education. We are all responsible for maintaining academic integrity at City College – it is the rock on which the value of your degree is built.

If you cheat on a test or plagiarize by using someone else's work or ideas, you defeat the purpose of your education. In addition, academic dishonesty is prohibited in the City University of New York, and is punishable by failing grades, suspension and expulsion.

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.