

MATH 138-01, Mathematical Probability and Statistics 2: Spring 2020

A quick reference guide

Instructor: Johanna Franklin

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Office: Roosevelt 315A

Office hours: Mondays, 10:30 a.m.–12:30 p.m. and Wednesdays, 9:00–11:00 a.m.

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Website: Blackboard (course site), http://people.hofstra.edu/Johanna_N_Franklin/ (personal site)

Semi-official course description: The following topics are covered over two semesters in this course and MATH 137: discrete and continuous probability distributions, characteristics of distributions, sampling theory, estimation, hypothesis testing, correlation, regression, and other topics. This course will focus on statistics and multivariate probability.

Text: *Probability and Statistical Inference* (9th or 10th edition) by Hogg, Tanis, and Zimmerman and handouts by the instructor (to be posted on Blackboard)

Classroom and time: Roosevelt Hall 111, TR 12:45–2:10 p.m.

Grading scheme:

- Homework: 20%
- 2 midterms (February 27 and April 2): 20% each
- Project: 15%
- Final exam: 25%

Homework will be assigned weekly. In general, the problems will be due on Thursdays at the beginning of class and cover the material discussed in the previous week. No late assignments will be accepted except under the most extreme circumstances. If you have an emergency that you think may qualify, please let me know as soon as possible. The lowest homework score will be dropped regardless.

For your final project, you will carry out an appropriate statistical analysis on data of your own choosing. More details will be provided later.

There will be two midterms and a comprehensive final exam in this class. The final exam is tentatively scheduled for 1:30 p.m. on Tuesday, May 12. You must be available to take your final exam at this time unless you have a documented emergency or unless you make alternate arrangements with me by April 20. Note that I will only make these arrangements in the event of extenuating circumstances beyond your control.

Calculator policy: You are permitted to use scientific calculators on exams, but not graphing calculators. One of the purposes of this course is to prepare actuarial students for Exam P, and the only calculators allowed for that exam are the following Texas Instrument models: BA-35, BA II

Plus, BA II Plus Professional, TI-30Xa, TI-30XIIS, TI-30XIIB, TI-30XS MultiView, and TI-30XB MultiView. If you're planning to take Exam P, I recommend that you use one of these calculators from the start so you'll be used to it by the time you take your exam.

Academic Honesty: You are expected to follow the Hofstra University Honor Code at all times. All forms of academic dishonesty are serious ethical and professional infractions. Hofstra's policy on academic honesty reads: "The academic community assumes that work of any kind [...] is done, entirely and without unauthorized assistance, by and only for the individual(s) whose name(s) it bears." See the "Procedure for Handling Violations of Academic Honesty by Undergraduate Students at Hofstra University"

(<https://www.hofstra.edu/faculty/senate/policy-series-011.html>) for a detailed discussion of dishonesty and Hofstra's procedures for handling violations. Violations will be reported.

You're encouraged to talk about the problems with your classmates and ask me questions if you get stuck, though copying your classmates' solutions is not allowed. I expect you to list the names of the students you worked with on each of your homework assignments. You are allowed to use any kind of calculator you like when you do the homework, but I urge you not to rely on a graphing calculator too heavily since only scientific calculators will be permitted on exams.

Accessibility Issues: If you believe you need accommodations for a disability, please contact Student Access Services (SAS). In accordance with Section 504 of the Rehabilitation Act of 1973 and the Americans with Disabilities Act of 1990, qualified individuals with disabilities will not be discriminated against in any programs or services available at Hofstra University. Individuals with disabilities are entitled to accommodations designed to facilitate full access to all programs and services. SAS is responsible for coordinating disability-related accommodations and will provide students with documented disabilities accommodation letters as appropriate. Since accommodations may require early planning and are not retroactive, please contact SAS as soon as possible. All students are responsible for providing accommodation letters to each instructor and for discussing with him or her the specific accommodations needed and how they can be best implemented in each course.

For more information on services provided by the university and for submission of documentation, please contact Student Access Services, 107 Student Center, (516) 463-7075.

Religious observances: If you have a religious obligation that conflicts with your participation in the course, you are responsible for notifying me far enough in advance for us to discuss your situation and agree on accommodations. Note that all students are responsible for completing all the work for the course. For more information, see Part II(B) of "Academic Freedom and Civil Liberties of Students at Hofstra University"

(<https://www.hofstra.edu/faculty/senate/policy-series-012.html>).

Discriminatory harassment, relationship violence, and sexual misconduct:

Hofstra prohibits sexual and other discriminatory harassment, stalking, domestic and dating violence, sexual assault and other sexual misconduct. If you or someone you know believes they have been subjected to any of these offenses, help is available. To make a report, or for more information about Hofstra's Student Policy Prohibiting Discriminatory Harassment, Relationship Violence, and Sexual Misconduct (for more information, see <http://hofstra.edu/sexualmisconduct>), please contact the Title IX Officer for Student Issues at (516) 463-5841 or StudentTitleIX@hofstra.edu or Public Safety at (516) 463-6606.

Confidential resources and support are also available from medical and counseling professionals in the Student Health and Counseling Center at (516) 463-6745) and clergy in the Interfaith Center.