

MATH 045-01, Logic, Sets, and Probability: Spring 2022
A quick reference guide

Instructor: Johanna Franklin

E-mail: johanna.n.franklin@hofstra.edu

Office: Roosevelt 315A

Office hours: Mondays 9:00–10:30 a.m., Wednesdays 3:30–5:00 p.m. (both days in person and over Zoom)

Office phone: (516) 463-5739

Website: Blackboard (course site) and <https://hofstramath045s22.slack.com> (Slack workspace)

Semi-official course description: By the end of this course, you will have learned about symbolic logic for analyzing arguments, sets and how they are used, and the basic concepts of and computations in probability and understood how these three subjects are related to each other.

Text: *Math in Society* by David Lippman, available free online at <http://www.opentextbookstore.com/mathinsociety/>, and instructor supplements

Classroom and time: Roosevelt Hall 101, TR 11:20 a.m.–12:45 p.m.

Grading scheme:

- Weekly quizzes: 15%
- Weekly discussion board posts/responses: 5%
- Three exams (the weeks of March 7–11 and April 11–15 and final exam week): 20% each
- Two miniprojects: 20% total

Each week there's no exam, you'll take a short timed quiz on Blackboard on the material covered in the previous week. You'll also make two posts on the Blackboard discussion boards each week, one responding to my prompt for the week and the other responding to a classmate's post from the week before. You'll receive credit for a post as long as it's clear that you made a good-faith effort to respond thoughtfully to the prompt or the previous post.

If you have an emergency that prevents you from taking the quiz or completing a post on time, please let me know as soon as possible. I'll drop your lowest quiz grade and two Discussion Board posts regardless.

There will be three exams in this class: two midterms and a noncumulative final exam. I'll give you the list of exam questions a week before the exam is due. After you complete them, you'll either shoot a short video of yourself showing your work and explaining your solutions or you'll explain the problems to me in person over Zoom. If you choose to explain them to me in person, we'll schedule it at a time that works for both of us.

For each of your miniprojects, you'll choose a logic topic we covered (for the first one) and a probability topic we covered (for the second one) and explain how it can be applied in your major or your intended career. More details will be given later in the semester.

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—whether a research paper, a critical essay, a homework assignment, a test or quiz, a computer program, or a creative assignment in any medium—is done, entirely and without unauthorized assistance, by 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/fps/11.html>) for a detailed discussion of dishonesty and Hofstra's procedures for handling violations. Violations will be reported.

You will be on your honor to work on the quiz and exam problems independently: while you're encouraged to use your notes and the textbook to prepare your answers, you should not discuss the questions with your classmates or receive help from (or give help to) anyone else.

Accessibility: 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 the specific accommodations needed with them 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/fps/12.html>).

Diversity: Hofstra University fosters a belief in an inclusive intellectual community, enriched and enhanced by the representations of diversity on the campus and within its learning spaces. Students from diverse backgrounds and perspectives will be well served in this education experience, and learning needs will be a priority in and out of the classroom. The diversity of identities and experiences that students bring to this class will be viewed as a resource, strength, and benefit. It is the goal and the responsibility of the instructor to present materials and activities respectful of diversity dimensions—race, gender, sexuality, ability, age, socioeconomic status, ethnicity, religion, culture, and other visible and nonvisible identities.

If you have any concerns about the class environment, I encourage you to speak with me. If you'd like to discuss issues related to your identity or how you might identify or are looking to connect with other students with identities similar to your own, please contact the Office of Intercultural Engagement and Inclusion at (516) 463-6957 or IEI@hofstra.edu. If you've experienced or been a witness to a discriminatory incident, please contact the university's Chief Diversity and Inclusion Officer at diversityinclusion@hofstra.edu.

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 (see <https://www.hofstra.edu/title-ix/about.html>), 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.

For specific policies relating to COVID-19 guidelines, including mask wearing and class seating, please see

<https://www.hofstra.edu/provost/course-syllabi-information.html>.