

## Math 114-01, Introduction to Higher Mathematics: Spring 2015

### A quick reference guide

Instructor: Johanna Franklin

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Office: Roosevelt 315B

Office hours: Mondays, 11:00 a.m. to 1:00 p.m. and Wednesdays, 9:00 to 11:00 a.m.

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Website: Blackboard (course website), [http://people.hofstra.edu/Johanna\\_N\\_Franklin/](http://people.hofstra.edu/Johanna_N_Franklin/) (personal website)

**Semi-official course description:** An introduction to advanced mathematics through the study of proof techniques using topics in mathematics such as logic, set theory, number theory and graph theory. In addition to learning how to read and write proofs, you will learn how to typeset your work in  $\text{\LaTeX}$ .

**Text:** *An Introduction to Mathematical Thinking* by William J. Gilbert and Scott A. Vanstone

**Classroom and time:** Adams Hall 212, TR 11:10 a.m.–12:35 p.m.

#### Grading scheme:

- Homework: 25%
- Tuesday classwork: 10%
- 2 midterms (Feb. 24 and April 2): 20% each
- Final exam: 25%

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

Each Tuesday at the beginning of class, we'll have a very short in-class exercise. I'll give you a problem and ask you to spend a few minutes thinking about it and writing down an answer.

There will be two midterms and a comprehensive final exam in this class. The final exam is tentatively scheduled for Thursday, May 14 at 10:30 a.m. You must be available to take your final exam at the officially scheduled 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.

**Academic Honesty:** You are expected to follow the Hofstra University Honor Code at all times. Plagiarism is a serious ethical and professional infraction. Hofstra's policy on academic honesty reads: "The academic community assumes that work of any kind [...] is done, entirely and without assistance, by and only for the individual(s) whose name(s) it bears." Please refer to the "Procedure for Handling Violations of Academic Honesty by Undergraduate Students at Hofstra University" at [http://www.hofstra.edu/PDF/Senate\\_FPS\\_11.pdf](http://www.hofstra.edu/PDF/Senate_FPS_11.pdf) for details about what constitutes plagiarism and Hofstra's procedures for handling violations. Violations of academic honesty will be reported.

You will not be allowed to use abaci, slide rules, calculators, computers, cell phones, or other electronic or computational aids on your midterms or your final exam.

You're certainly allowed 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 it heavily since it will not be permitted on exams (rather like your classmates' help!).

**Accessibility Issues:** If you believe you need accommodations for a disability, please contact Services for Students with Disabilities (SSD). 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. SSD 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 SSD 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 Services for Students with Disabilities, 212 Memorial Hall, (516) 463-7075.

**Religious observances:** Some students may wish to take part in religious observances during this academic term. If you have a religious observance that conflicts with your participation in the course, please meet with me before the end of the second week of the term to discuss appropriate accommodations.

**Thoughts for success:** I really encourage you to start the homework early and take your time with it! This class will be very different from all the other math courses you've taken. Since you're learning to write proofs and working with lots of new concepts, it will help if you give yourself plenty of time to think about the problems. Think of it as learning a new language. You need time to learn the vocabulary and the grammar.

**Notice on campus sexual assault and discriminatory harassment:** University policy and federal laws such as Title IX, Title VI, and the ADA make it clear that sexual violence and harassment based on any protected characteristic are strictly prohibited and are subject to standards of accountability at the University. If you or someone you know has been sexually assaulted or subjected to discriminatory harassment, the University offers multiple resources to support you and has policies and procedures to address these offenses. For more information, contact the University Title IX Coordinator, Jean Peden-Christodolou, at (516) 463-6815, Jean.C.PedenChristodolou@hofstra.edu; the University Equal Rights & Opportunity Officer, Jennifer Mone, at (516) 463-1800, eroo@hofstra.edu; or refer to the applicable University policy at <http://www.hofstra.edu/eoe>.