Course Logistics

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Mathematics has profoundly changed our world, from banking and computers to listening to music. This course is designed for those who haven't had college mathematics but would like to understand some of the mathematical concepts behind important modern applications. It will consist of largely of the following four topics, with the possibility of adding a fifth towards the end of the semester:

• Probability
• Statistics
• Game Theory
• Graph theory and networks
• Cryptography (if we have time)
Key Resources

- PowerPoint presentations will be uploaded on NYUClasses after the lecture.
- I will provide lecture notes for some lectures. These will also be uploaded after the lecture on NYUClasses.
- And for interest:
  - Seventeen Equations that Changed the World (2013). Ian Stewart.
Lectures and Class Format

• Lectures will take place on Monday and Wednesday 08:00-09:15 in 19UP 102.
• You must also sign up for one of the recitations offered each Tuesday.
• Problem sets will be assigned each week (on Sunday evening) and should be turned in in class (right after lecture) the following Monday. (The first problem will be available on Sunday, September 10 and is due on Monday, September 18).
• Office hours will run in each week of the course where you can get help on the problem sets and ask questions.
• There will be in-class quizzes either during lecture or during recitation.
• The course assessment is made up of problem sets, quizzes, an in-class midterm exam (on October 23, 2017), and a final exam (date to be decided).
• The lowest homework grade will be dropped.
The course is graded as follows:

- **Problem sets** count for 30% of the course grade
- **Quizzes** count 10% of the course grade.
- **Recitation** counts for 10% of the course grade
- **Midterm exam** counts for 20% of the course grade.
- **Final exam** counts for 30% of the course grade.
• My office hours are **Thursdays from 13:00 – 15:00** or by appointment (on Fridays only) in WWH 719.

• TAs will also offer office hours, which I will share with you next week.