

Math with Mathematica, Spring 2016

Queens College, Math 213W

Prof. Christopher Hanusa

<http://qc.edu/~chanusa/courses/213/16/>

Class Introductions

Arrange yourselves into groups of four or five people,
With people you **don't know**.

- ▶ Introduce yourself. (your name, where you're from, your interests)
- ▶ What brought you to this class?
- ▶ Fill out **the blank side of** your notecard:
 - ▶ Write your name. (Stylize if you wish.)
 - ▶ Write a few words related to your name.
 - ▶ *Draw* something in the remaining space.
- ▶ Discuss with your groupmates why you wrote what you wrote.
- ▶ Exchange contact information. (phone / email / other)
- ▶ **Discuss!** How are computers related to mathematics?
 - ▶ Brainstorm!
 - ▶ Organize into themes.

A normal day in this class

- ▶ **Outside class**
 - ▶ Preparing for class
 - ▶ Complete homework, Prepare questions.
- ▶ Arrive on time & Be ready to participate!
- ▶ Discussion of homework and your questions, recap.
- ▶ Lecture portion of class
 - ▶ Overview of the day, focus on complex concepts
- ▶ Tutorial
 - ▶ Work through Mathematica notebook or textbook exercises
 - ▶ Answer Comprehension Questions
 - ▶ Explore, **Take notes in notebook** (Save to your email.)
- ▶ Debrief at end of day
- ▶ **Outside class**
 - ▶ Learning after class
 - ▶ Finish tutorial, review notes, complete homework

To do well in this class:

- ▶ **Form good study groups.**
 - ▶ Discuss homework and classwork.
 - ▶ Bounce around ideas, topics, questions.
 - ▶ It helps to have people to talk through things with.
- ▶ **Put in the time.**
 - ▶ Four credits = 8–12 hours / week out of class.
 - ▶ The work stresses key concepts from class; learning takes time.
- ▶ **Come to class prepared.**
 - ▶ **Review** previous day's notes.
 - ▶ **Do** the homework & work on your projects.
- ▶ **Stay in contact.**
 - ▶ If you are confused, ask questions (in class and out).
 - ▶ Don't fall behind in coursework or homework.
 - ▶ I need to understand your concerns.

Everything posted online; first one (many parts) due Wednesday.