These slides, as well as all the information about the course, can be found at:
(shortcut: Google "Moira Chas")

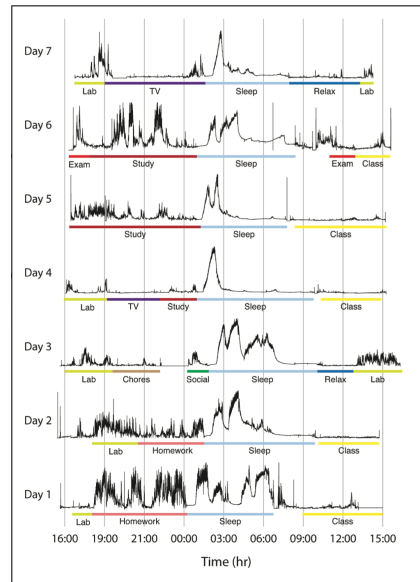http://www.math.stonybrook.edu/~moira/mat515-fall16/

Geometry for teachers

ADM

"Lecturing is that mysterious process by means of which the contents of the note-book of the professor are transferred to the note-book of the student without passing through the mind of either."

Table by Eric Mazur

Let's make brain waves in this lecture.

Philosophy is written in that great book which ever lies before our eyes — I mean the universe — but we cannot understand it if we do not first learn the language and grasp the symbols, in which it is written.
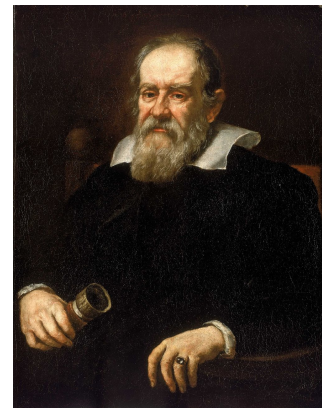
This book is written in the mathematical language, and the symbols are triangles, circles and other geometrical figures, without whose help it is impossible to comprehend a single word of it; without which one wanders in vain through a dark labyrinth.

Galileo Galilei

Space, cyberspace and time coordinates

- Moira Chas
- Best way to contact me:
  - moira.chas at stonybrook.edu
- Website:
  - http://www.math.sunysb.edu/~moira/
- Office: 3-119 Math Tower
- Office hours:
  - Mo 4:15 to 5:15pm in P-143.
  - We 3:15 to 5:15pm in 3-119 Math Tower,
  - and/or by appointment (email me!).

Online Resources

- Course Website:
  - http://www.math.stonybrook.edu/~moira/mat515-fall16/
    - Syllabus, homework schedule, exams dates, announcements.
  - http://www.math.stonybrook.edu/~moira/mat515-fall16/LecturesPDF/
    - Slides, geogebra files, and other materials (including the one you are reading)
- Blackboard:
  - Grades

Email communications

- During the semester, I will send a few emails. Please make sure that you check the Stony Brook email account regularly.
- Messages should be written in complete English sentences.

Book

Textbook: Martin Isaacs, *Geometry for college students. Providence, R.I. : American Mathematical Society.*
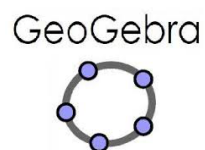
Reading the assigned sections beforehand is required.

The book is in reserve in the Math Library.

We will complement the textbook with handouts and other materials which will be posted in the course website.

Geogebra

We will use Geogebra, a free, javascript based software. You can downloaded for your computer or tablet, or work on it online.

GeoGebra

How can you succeed in this course?

- Dedicate around 6-8 hours/wk to this course (outside the classroom). During these hours, your goal should be to **understand** the material. To do so,
  - Read the assigned sections of the textbook beforehand (with paper and pencil handy).
  - Work on written homework
- Do not leave the homework for the last minutes before the deadline.
- Attend to lectures when you do, be *completely* in the class. (This implies no use of electronics (cell-phone is an electronic)
- Get help if you need it, as soon as you need it (office hours, MLC)

Homework Assignments

- You cannot learn math without working on problems.
- Expect to spend a few hours a week working on homework.
- Start submitting homework from the beginning of the course (and don't stop until the end!).
- You should submit these problems the second meeting of this class, the following week.
- Each graded problem is worth 5 points.
- **Graders**: Chandrika Sadanand and Benjamin Sokolowsky

Written Homework must contain

- The statement of the problem
- An answer that is emphasized, if appropriate.
- In most problems if there is no work shown, there is no credit. In other words, an answer with no justification is not admissible (even if it is the correct answer!)

Homework should by legible and written in complete English sentences.

10

Grades policy

❖ The final grade will be based on the midterms score (20% each) the final examination (40%) and homework and class participation (20%).

❖ Class participation means being active and present in class, asking relevant questions and working on the proposes activities

❖ The midterm and final will consist in problems similar to some of those of the homework.

❖ A student will get the better of two grades, one calculated from this weighted sum, the other based only on the (cumulative) final examination.

Is it allowed to work in teams?

❖ You may discuss the assignments in this course with classmates, before working in the write-up.

❖ Each student's submission must be his or her own work.

❖ It is not allowed to browse the Internet for solutions.

ACADEMIC DISHONESTY

• All work you submit for homework, final, or exams MUST be your own work.

• If you cheat or aid someone in cheating, you will automatically fail this course and be brought up on charges of academic dishonesty without warning.

• Cheat includes: presenting work of other as your own, copying other student work, facilitate that other student copies your work, use of notes, calculators and/or electronic devices during examinations.