

MATH 7620 – Symplectic Geometry
Spring 2014

Lectures: Tuesdays and Thursdays 2:55-4:10pm in Mallot 230
(we will end early on Thursdays to accommodate those attending the Oliver Club)

Instructor: Ana Rita Pires, apires@math.cornell.edu, Malott 581

Office Hours: Wednesday 1:30-2:30pm in Malott 581 or by appointment

Course Webpage: <http://www.math.cornell.edu/~apires/7620>

Prerequisites: I would like to assume that you are familiar with Differential Geometry and Algebraic Topology. Can I?

Course outline: We will cover the basics using the textbook (skipping some sections), this will take up at least half of the semester. The remaining lectures will be presentations made by students. We might also have some guest lecturers at some point.

Textbook: We will cover the basics by following Cannas da Silva's *Lectures on Symplectic Geometry*, 2008 edition (available free online through the math library). At the end of each lecture I will announce what sections of the textbook you should skim over before the next lecture.

Homework: I will post suggested homework problems on the webpage and/or announce them in lecture. You don't have to hand them in, but you should try to solve them. You are strongly encouraged to discuss the homework problems with the other students and welcome to come to office hours to talk to me about them (the problems, not the students).

Presentations by the students: : I will provide a list of possible topics – and some references – but you are welcome to suggest other topics. The idea is to have one lecture per student. If some topic is too long for only one lecture, you can work in pairs and get two lectures to present it.

Grading policy: The grades will be determined by the presentations and class participation.