discrete geometry . geometría discreta

san francisco state university . universidad de los andes   federico ardila m.

Instructor.
Federico Ardila
federico@math.sfsu.edu
Thornton 927
1.415.338.7720

Meetings.
.**bog**. Mondays, Wednesdays, Fridays 5:10-6:00. PU-300.
.**sf**.   Mondays, Wednesdays, Fridays 2:10-3:00. Thornton 211.

Office hours.
Mondays, Fridays 3:10-4:00.

Course website.
http://math.sfsu.edu/federico/polytopes.html
You are expected to visit this website often, and participate actively on the online discussion forum, which will be a very useful source of projects. On the website you will find, among others:
• the homework assignments,
• some suggested final projects,
• the lecture notes,
• links to the lecture videos, and
• a link to the online discussion forum.

Textbook.
There is no required textbook. Much of the course will follow parts of:
• G. Ziegler. *Lectures on polytopes.*
• R. Stanley. *An introduction to hyperplane arrangements.* www-math.mit.edu/~rstan/arr.html.

Prerequisites.
You must be prepared to devote at least 10 hours a week on this class. The course will require mathematical maturity, but the only formal prerequisites are:
• Math 325 (SFSU) or Algebra Lineal 2 (Los Andes) or equivalent, and
• Math 301 (SFSU) or Matemática Estructural (Los Andes) or equivalent.

Grading and tentative due dates.
• 50% main homework (due Sep. 7(sf)/8(bog); Sep. 20/22; Oct. 4/6; Oct. 18/18)
• 10% light homework (in late October, November)
• 10% project proposal (due Nov. 1)
• 35% final project (due Dec. 6)
further extra credit:
• 5% for active participation in online forum.
• 10% in the project grade for teams of a **bog** and an **sf** student.