



## coxeter groups

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### Instructor.

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### Meetings.

.bog. Mondays, Wednesdays, Fridays 4:10-5:00.  
.sf. Mondays, Wednesdays, Fridays 10:10-11:00. Thornton 211.

### Office hours.

Mondays 2:00-3:00 , Wednesdays 11:00-12:00

### Course website.

<http://math.sfsu.edu/federico/coxeter.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.

The following books would be useful but none are required. In order of relevance:

- A. Björner and F. Brenti. *Combinatorics of Coxeter groups*.
- R. Kane. *Reflection groups and invariant theory*.
- J. Humphreys. *Reflection groups and Coxeter groups*.

### Prerequisites.

Modern Algebra 1 (SFSU) / Algebra Abstracta 1 (Los Andes).

### Grading.

50%: Homework assignments due on 2/6, 2/20, 3/5, 3/19. Due by e-mail. LaTeX preferable.  
50%: Final project in pairs due on 5/16. Proposal is due on 4/9. LaTeX mandatory.  
10%: Possible bonus for very active and valuable participation in the online forum.  
10%: Incentive for projects by a Bogotá and a San Francisco student.