# COS 435  2012 Midterm exam

DISTRIBUTED end of class Wednesday March 14.
**DUE 3:00 PM Friday, March 16 in my office.**
  *can be hand-written or typeset*

*All* material thru compression is included (thru Mar. 5)

Exam is open book with restrictions:
•your personal notes and problem set submissions,
•the problem set solutions posted on the course Web site,
•*Intro. to Information Retrieval* by Manning, Raghavan, & Schütze,
•class notes and any of the readings posted on the "Schedule
and Assignments" page of the Web site for the course

# Outline of Major Topics Covered
## (highlights)

- Models and methods
  - Modeling queries and documents
    - Satisfying, scoring and ranking w.r.t query
  - Vector models for ranking
  - Link analysis for ranking
- Evaluating retrieval systems
- Algorithms and data storage
  - Index structures
  - Evaluating queries using indexes
  - Building "inverted indexes"
  - Storage concerns
    - Disk-based (external) algorithms
    - Compressing indexes