Course Webpage (contains schedule, policies, homeworks and slides):
http://www.cse.buffalo.edu/~shil/courses/CSE632/

Please sign up course on Piazza via link on course webpage
- announcements,
- polls
- asking/answering questions
- posting solutions
Time and location:
- WeFr 11:00am-12:20pm
- Talbert 103

Instructor:
- Shi Li, shil@buffalo.edu
- Office hours: Wednesdays 2:00pm-3:00pm (and by appointments), Davis 328,
Prerequisites

- CSE431/531: Analysis of Algorithm I.
  - Asymptotic Notations
  - Algorithms for classic problems such as sorting, shortest paths, minimum spanning trees, etc.
  - Meta techniques to design algorithms such as greedy algorithms, divide and conquer and dynamic programming
  - How to analyze algorithms: correctness, running time
- Some knowledge of probability theory
Recommended Textbooks

Tentative Schedule (28 Lectures)

- Introduction (5 lectures)
  - logistics, introduction
  - a sample of randomized algorithms
  - basic probability theory, balls and bins
- More Classic Randomized Algorithms (4 lectures)
  - universal hashing, randomized quicksort
  - ...
- Tail Bounds and Applications (6 lectures)
- Markov Chains (5 lectures)
- Advanced Topics (6 lectures)
- Final Review + Final Exam (Friday, December 6)
Grading

- Participation: 20%
- Scribe notes: 20%
  - each one of you will need to take notes for 2 lectures
  - type using Latex (template will be provided)
- Homeworks: 30%
  - 5 homeworks, each worth 6%
  - due in 2 weeks after post date, except for the last homework
- In Class Final Exam: 30%
  - closed-book
For Homeworks, You Are Allowed to

- Use course materials (textbooks, lecture notes)
- Post questions on Piazza
- Ask me for hints during office hours or on Piazza
- Discuss with classmates
  - Think about each problem for enough time before discussions
  - Try to get the ideas, instead of solutions, from discussions
  - **Must write down solutions on your own, in your own words**
  - Write down names of students you discussed with
For Homeworks, You Are Not Allowed to

- google or ask questions online for solutions
- read posted solutions from online forums or other course webpages
- copy solutions from other students
Questions?

Remember to sign up on Piazza.