

CS 124
Algorithms and Data Structures
Overview

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Course Goal

- Provide a solid background in algorithms and data structures, in preparation for either a job in industry or more advanced graduate courses.

Class Setup

- People from all concentrations (mathematics, biology, physics, economics...) welcome.
- Assignments are theoretical/mathematical, but also have programming assignments.
- CS 50 minimum prerequisite.
 - CS 51/61, CS 121, or strong math background all helpful.

Topics

- Graph Algorithms
- Greedy Algorithms
- Divide and Conquer
- Dynamic Programming
- Linear Programming
- Hashing and Randomness
- Randomized Algorithms
- NP-complete problems and how to solve them.

Time

- Tu-Th, 11:30 - 1.
- Taught every spring.

I hope to see you there.