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.