Instructor: James Wong
Office: TH 967
Office Hours: Mon & Fri 10-11am, Mon 3:40-4:10pm
Office Phone: 338-2858
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Prerequisite: A grade of B or better on CSC 510

Class Materials: http://unixlab.sfsu.edu/~jwong/810/

References:
- Foundations of Algorithms, 4th edit., Neapolitan & Namipour, Jones and Bartlett, 2009
- Research Papers.

Grade:
- Quizzes: 60%
- Home Works: 0%
- Class Presentation: 10%
- Final Exam: 30%

Topics:
- Review: Data structures, performance analysis, string matching, searching, graph & sorting algorithms
- Design techniques I: divide and conquer, greedy method, dynamic programming
- Design techniques II: backtracking, branch-and-bound
- NP-Complete problems and approximation algorithms
- Parallel algorithms: PRAM, MESH, Routing Messages in a Network
- Scheduling algorithms and other advanced topics