Instructor: James Wong  
Office: TH 967  
Office Hours: Wed 9-10am, 6:30-7pm; Fri 9-9:30am  
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Prerequisite: A grade of B or better on CSC 510

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

References:

- Research Papers.

Grade:

- Quizzes: 45%  
- Class Presentation: 25%  
- 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