Course Goals

- Learn methods and principles to construct algorithms.
- Learn techniques to analyze algorithms mathematically for correctness and efficiency (e.g., running time and space used).
- Course roughly follows the topics suggested in textbook
 - Stable matching
 - Measures of algorithm complexity
 - Graphs (may skip)
 - Greedy algorithms
 - Divide and conquer (briefly)
 - Dynamic programming
 - Network flow problems
 - NP-completeness
 - Coping with intractability
 - Approximation algorithms
 - Randomized algorithms (if there is time)