

CSC 1700: Analysis of Algorithms

Efficiency classifications and mathematical analysis of recursive and nonrecursive algorithms; design techniques: brute force, greedy, divide-and-conquer, dynamic programming, backtracking, branch-and-bound, space and time tradeoffs; NP-completeness; approximation algorithms; computational problems: sorting, searching, string processing, graphs, arithmetic, linear algebra.

Credits: 3.0

Prerequisites:

CSC 1300

MAT 2600

CSC 1052

ECE 2620

ECE 2160

(CSC 1300 or MAT 2600) and (CSC 1052 or ECE 2620 or ECE 2160)

Program: [Computing Sciences](#)