

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

Prerequisite Courses

CSC 1300

MAT 2600

CSC 1052

ECE 2620

ECE 2160

Last Offered

Fall 2025, Spring 2025, Fall 2024, Spring 2024