

Algorithm and Complexity Analysis

2023-2024 Catalog

CSC 575 - Algorithm and Complexity Analysis

Admission to the MS in CSIS program; [CSC 375](#) with a grade of B (3.0) or better or [CSC 500](#) or pass on department programming proficiency test. (4)

Algorithm efficiency, asymptotic notation, solutions to recurrence relations. Greedy algorithms for graphs, scheduling problems, and greedy heuristic methods. Divide and conquer algorithms for sorting and numeric computation. Dynamic programming. Graph algorithms including DFS and BFS. Probabilistic algorithms. Introduction to complexity theory. *Graded ABCDE/Y*

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