

California State University, Stanislaus

[Archived Catalog]

CS 4440 - Theory of Algorithms

3 unit(s)

A systematic study of the design and efficiency analysis of algorithms. Coverage of fundamental techniques of algorithms such as greedy, divide-and-conquer, dynamic programming, graph techniques, probabilistic, and parallel. An introduction to computational complexity theory: problem reduction, NP-complete problems, and other complexity classes.

Prerequisites: CS 3100 and MATH 2300.

[Spring 2024 Schedule of Classes](#) | [University Bookstore](#)
