California State University, Stanislaus

[Archived Catalog]

CS 4450 - Coding and Information Theory

3 unit(s)

Topics to be selected from error detecting and correcting codes; encryption and decryption techniques; RSA and knapsack codes; algebraic coding theory; Hamming distance; sphere packing and its relation to optimal codes; Hamming, Huffman, and Gray codes; entropy; channel capacity and Shannon's theorem; bandwidth; and the sampling theorem.

Prerequisites: CS 3100 and MATH 2300

Spring 2024 Schedule of Classes | University Bookstore