California State University, Stanislaus

[Archived Catalog]

CS 3150 - Nonlinear Systems and Chaos

3 unit(s)

Addresses theoretical and quantitative methods useful for work with nonlinear systems from many fields. Together with its laboratory, the course provides experience with phase space maps, Poincare sections, basins of attraction, strange attractors, and fractals and fractal dimensionality. Emphasizes systems best described by discrete math. Examples are drawn from physics, biology, cognitive science, economics, and other areas. (Offered under the subjects CS and COGS)

Prerequisites: CS 1500 or COGS 2300 or consent of instructor.

Hours: (Lecture, 2 hours; laboratory, 2 hours).

Spring 2024 Schedule of Classes | University Bookstore