COMPLEX SYSTEMS (CSYS)

Courses

CSYS 092. Independent Study. 1-18 Credits.
A course which is tailored to fit the interests of a specific student, which occurs outside the traditional classroom/laboratory setting under the supervision of a faculty member, for which credit is awarded. Offered at department discretion.

CSYS 095. Special Topics. 1-18 Credits.
See Schedule of Courses for specific titles.

CSYS 096. Special Topics. 1-18 Credits.
See Schedule of Courses for specific titles.

CSYS 195. Intermediate Special Topics. 1-18 Credits.
See Schedule of Courses for specific titles.

CSYS 196. Intermediate Special Topics. 1-18 Credits.
See Schedule of Courses for specific titles.

CSYS 266. QR: Chaos, Fractals & Dynamical Systems. 3 Credits.
Discrete and continuous dynamical systems, Julia sets, the Mandelbrot set, period doubling, renormalization, Henon map, phase plane analysis, and Lorenz equations. Prerequisite: MATH 122 or MATH 124. CS 020 or CS 021 recommended. Cross-listed with: MATH 266.

CSYS 268. QR: Mathematical Biology & Ecology. 3 Credits.
Mathematical modeling in the life sciences. Topics include population modeling, dynamics of infectious diseases, reaction kinetics, wave phenomena in biology, and biological pattern formation. Prerequisites: MATH 122 or MATH 124; MATH 230 or MATH 271; or instructor permission. Cross-listed with: MATH 268.

CSYS 295. Advanced Special Topics. 1-18 Credits.
See Schedule of Courses for specific titles.

CSYS 296. Advanced Special Topics. 1-18 Credits.
See Schedule of Courses for specific titles.