## MATH 326. NONLINEAR DYNAMICS AND CHAOS.

Credits: 3

Offered by: Mathematics and Statistics (Faculty of Science)

Terms offered: Fall 2025

View offerings for Fall 2025 in Visual Schedule Builder.

## Description

Linear systems of differential equations, linear stability theory. Nonlinear systems: existence and uniqueness, numerical methods, one and two dimensional flows, phase space, limit cycles, Poincare-Bendixson theorem, bifurcations, Hopf bifurcation, the Lorenz equations and chaos.

• Fall

- Prerequisites: MATH 222, MATH 223
- Restriction: Not open to students who have taken or are taking MATH 376

Most students use Visual Schedule Builder (VSB) to organize their schedules. VSB helps you plan class schedules, travel time, and more.

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