



Florida Gulf Coast University

Department of Mathematics

MATHEMATICS SEMINAR

Thursday, Feb 18,
2021
1:30 - 2:20 pm

Viewing Location:
Seidler Hall Room 220

Zoom Registration: https://fgcu-edu.zoom.us/meeting/register/tJwudu-pqTspHdKX2baQwPZ5n3997_AkBMME



Application of Dynamic System on Some Ecological and Epidemiological Models

Speaker: Jing Chen, Ph. D., Nova Southeastern University

In studying some biological problems, the descriptive features of biological systems are delivered by the differential equations which can be studied quantitatively by both analytical and computational methods. The obtained results can be interpreted back to the biological level, then explain some phenomena and also provide some strategies.

I will introduce some applications of differential equations and dynamic system in both ecological and epidemiological models. First, we will the nonlinear dynamics can help to understand how seasonal harvesting affects ecological system. Second part will focus on the application of mathematics and statistics in infectious diseases.

LIGHT REFRESHMENTS WILL BE PROVIDED



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