

AMATH 423/523

<p>MATHEMATICAL ANALYSIS IN BIOLOGY AND MEDICINE</p>

The Department of Applied Mathematics is offering Amath 423/523 as a winter course in mathematical biology. I will provide an introduction to key questions and models in two of the oldest and most important branches of mathematical biology:

Theoretical Population Genetics,

Mathematical Epidemiology.

If you are interested in an introductory course that gives you a broad overview of these two branches of mathematical biology, this is the course for you.

The only formal prerequisite that I will be enforcing is a first course in differential equations. You should, however, expect to apply difference equations, differential equations, dynamical systems theory, probability theory, and linear algebra to biological problems.

Winter 2021. 3/5 credits.

T, Th 10:00-11:20, Offered via Remote Learning

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