MATC58 Preface

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What is methernatical biology?

"Application of math to biology"

Physics: fluid dynamics of blood

CS: computational biology

Bischenistry: reaction kinetics of molecules of cells

Mathematical modelling of biology systems

- (1) Formulate a model of a biological system
- (2) Apply mathematical techniques to understanding model behavior
- (3) Interpretation of model to get biological results.

· Discrete time vs. continuous time

periodical cizadas bacterial growth

difference equations differential equations

· Time and space

OPES and PPES

time - and

dependence Space
dependence

Ordinary

difference

tens

discrete intervals	difference equations	equations
Continuous Intervals	ordinary differential equations	partial differential equations
most of our		
focus		