

Undergraduate Math Club

Fall 2007

2nd floor Nesbitt Common Room

Monday, October 1, 4:10-5:00pm

(free pizza and pop, as always)

**How simple math can
sometimes make all the
difference in biology
and medicine**

Professor Danny Forger

Abstract

Biological systems are often complex and defy simple intuition. Sometimes simple mathematical representations of these systems can give illuminating insights. Here I will present several examples of insightful models spanning several different disciplines including: 1) biomechanics: how the speed of a boat scales with the number of rowers, 2) biological oscillations: how to stop your biological clocks or cause a heart attack and 3) infectious disease: how AIDS develops in patients infected with HIV.