Math B308 Applied Mathematics:
Mathematical Modeling in Biology

Course Description
This course will provide an introduction to mathematical modeling with a focus on biological applications. We will build and analyze models of biological phenomena using analytical, graphical, and computational methods in differential equations. We will also examine how fundamental models can be used to study more complex real-world problems.

Some key questions we will address:

★ How do we prevent a DISEASE epidemic?
★ How do we classify BIOCHEMICAL interactions? (PICTURED)
★ What's required for sustained NEURON activity?

No prior experience in programming or biology is required.

Prerequisites: Math B203 (linear algebra) and Math B210 (differential equations), or instructor permission. Contact ejgraham@brynmawr.edu for more information.