## ${\bf Math~4755~Mathematical~Biology}$

Math 4755 is not taught on a regular basis and is currently inactive.

## **Mathematical Biology**

Department: MATH
Course Number: 4755
Hours - Lecture: 3
Hours - Lab: 0
Hours - Recitation: 0
Hours - Total Credit: 3

Typical Scheduling: Every odd spring semester

Description:

Problems from the life sciences and the mathematical methods for solving them are presented. The underlying biological and mathematical methods for solving them are presented. The underlying biological and mathematical methods for solving them are presented. The underlying biological and mathematical methods for solving them are presented.

Prerequisites:

Math 1502 or Math 1215 or (Math 15X2 + Math 1522)

## **Course Text:**

No text

## **Topic Outline:**

The biology and mathematics in this course have equal emphasis. No prior study of biology is necessary for this course, and only the first year calculus are required. The mathematics proceeds from simple concepts to more complex ones; the biology proceeds from level down to the molecular level. The course uses computer models to connect the mathematics and the biology. Topics discussed models, diffusion models, pharmacokinetics, neurophysiology, viruses, the immune system, the biochemistry of cells and genetics. are emphasized depends on the interests of the class.

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