

PROBABILITY TOPICS IN MATHEMATICAL BIOLOGY

MATH 6810 / 5810
Section 4

This course will look at probability models and techniques which are useful across various fields of biology. Potential biology applications include

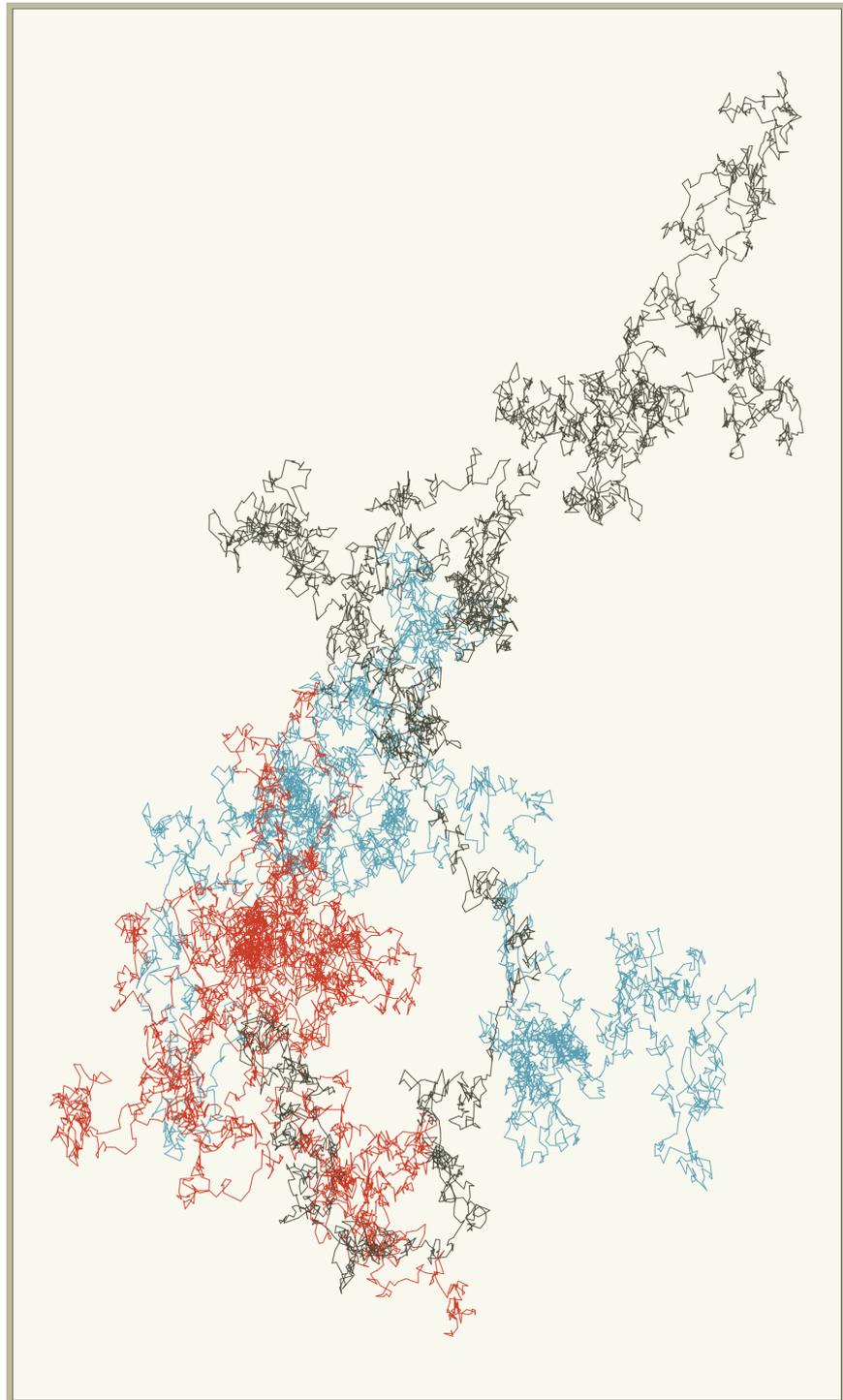
- ❖ random growth and random motion models,
- ❖ disease and infection models,
- ❖ predator-prey systems, and
- ❖ population dynamics and mutation effects.

The aim of the course is to make advanced probability concepts accessible to students from a wide range of backgrounds through the context of mathematical biology research ideas.

With built-in flexibility and a small class size, the course will address the areas of interest of the students. The prerequisites for the class are calculus and linear algebra, plus some familiarity with probability or statistics, which can come from coursework or from exposure through research or other activities.

CONTACT

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