What do HIV, traffic flow, plant vascular networks, and predator-prey interactions have in common?

All of these disparate phenomena can be modeled using mathematics!

In Math 308, we will develop, analyze, and evaluate mathematical models for problems of current research interest in biology, ecology, geophysics, engineering, and the social sciences. Both analytical and numerical techniques will be used.

There will be homework and either exams or a project.

Prerequisites: Math 102: Calculus II or permission of the instructor.