Mathematical Modeling of Biological Systems

VMB 631 (CRN 60724)

Spring Quarter 2016

Tuesdays 2:00PM–3:20PM & Thursdays 2:00PM–4:40PM

Instructor: Jan Medlock, Department of Biomedical Sciences,
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Dryden 104

The course will introduce students to mathematical modeling to advance biological sciences. We will examine outstanding examples from the research literature across a broad range of biological disciplines. We will focus both on the contribution the modeling makes to the scientific application and on the modeling methods themselves. Substantial time will be devoted to implementing the models in the R software package.

Prerequisites: Graduate standing or permission of instructor.