

# MAT 1314: Modeling for the Life Sciences

Mathematical and statistical modeling in the Life Sciences. Topics selected from: dynamical systems, diffusion, Markov, Bayesian, connectionist, and information theory models, applied to epidemiology, ecology, neuroscience and neuron signaling, cell and molecular biology, genetics, physiology, psychology, and other areas. Pre-requisites MAT 1312 or Equivalent

**Credits:** 3.0

**Prerequisites:**

MAT 1310

MAT 1312

MAT 1320

MAT 1400

MAT 1500

MAT 1310 or MAT 1312 or MAT 1320 or MAT 1400 or MAT 1500

**Program:** Mathematics and Statistics