MATH 360 (Section 101)
Mathematical Modeling in Science
Session 2015W, Term 1 (Sep–Dec 2015)

http://www.math.ubc.ca/∼nagata/m360/

Description:

- From the UBC Calendar: "Principles of model selection and basic modeling techniques in biology, earth science, chemistry and physics. Optimization, dynamical systems and stochastic processes. . . ."

Topic prerequisites:

- Integral calculus including some ordinary differential equations (e.g. MATH 101) [Differential calculus is an implicit prerequisite, e.g. MATH 100]

Instructor:

- Section 101: Wayne Nagata (office: Math 112, e-mail: nagata@math.ubc.ca)

Textbook:

- No textbook

Topics:

1. Optimization in one variable

2. Continuous-time dynamical systems

3. Discrete-time dynamical systems

4. Stochastic processes