To-do:

\* Find better cartoons for several chapters

\* Standardize inclusion of figures using the knitr approach

Possible Outline

1. Introduction to topic
2. Introduction to R/Shiny
3. Single Outbreaks
4. Birth-death
5. Endemic states
6. Oscillations
7. Extinctions
8. Impact of pre-existing immunity
9. Age structure
10. Vaccination and other Control

Mechanistic Modeling overview

Inference/Fitting

* Basic idea

Thoughts

Look at Penn State Epidemics MOOC, all existing ID Epi textbooks and ID Epi modeling textbooks.

Check with different academic presses to see if they have an online book model.

Other ID textbooks:

Modern Infectious Disease Epidemiology by Giesecke:

Mostly classical Epi concepts with an ID slant

Infectious Disease Epidemiology by Nelson et al.:

Mainly a reference book.

Essentials of Infectious Disease Epidemiology by Manya Magnus:

Simpler version of the Giesecke book