

Biology 501: Epidemiological Modeling

Instructors:

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Time and location:

The course will meet Wednesdays from 2:30-3:20 in McClure 117.

Introduction:

Welcome to Biology 501 (ST: Epidemiological Modeling). The goal of this special topics course is to explore methods used to model infectious disease.

Course structure:

We will spend the semester reading the book “Modeling infectious diseases in humans and animals” by Matt J. Keeling and Pejman Rohani. Everyone will need a copy of this text in order to fully participate.

Course Grades:

Your grade will be P/F and based on your participation in weekly discussions and your leadership of the chapter you select.

Learning outcomes:

The goal of this special topics course is to familiarize students with commonly used approaches for modeling infectious disease.

Biology 501: Epidemiological Modeling

Leader signup sheet

Date	Chapter	Leader
January 17	1	None. General Discussion
January 24	2.1	Scott
January 31	2.2 – 2.5	Chris
February 7	2.6 – 2.9	
February 14	3.1 – 3.2	
February 21	3.3 – 3.5	
February 28	4.1	
March 7	4.2 – 4.3	
March 21	5	
March 28	6.1 – 6.3	
April 4	6.4 – 6.8	
April 11	7.1 – 7.3	
April 18	7.4 - 7.10	
April 25	8.1 – 8.2	
May 2	8.3 - 8.7	

Leaders should come prepared to explain (at least) the following three things to the group:

1. The biological process being modeled by each set of equations
2. The key assumptions made by each model
3. The key biological results that emerge from each model

Some of the analyses are complex, and if you are unable to unpack/understand them, that's fine! We will all work together during the class time to develop an understanding of how the models were analyzed to arrive at the biological conclusions.

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DISABILITY SUPPORT SERVICES REASONABLE ACCOMMODATIONS STATEMENT:

Reasonable accommodations are available for students who have documented temporary or permanent disabilities. All accommodations must be approved through the Center for Disability Access and Resources, located in the Bruce M. Pitman Center, Suite 127, in order to notify your instructor(s) as soon as possible regarding accommodation(s) needed for the course.

- (208) 885-6307
- email at cdar@uidaho.edu
- website at <http://www.uidaho.edu/current-students/cdar>