

# Mathematical Biology Projects

**Submission** A project consists of a 15-minute video presentation, due Tuesday, May 5. I expect an e-mail containing the following:

1. A link to your video
2. Attached presentation file in PDF format.
3. Attached compressed file (zip, rar, tar, etc) containing all files and codes related to your work, so that I can regenerate your results.

**Presentation** Here's the outline of a typical presentation:

1. Motivation. Introduction and description of research question.
2. Methods. Transition to mathematical and/or computational problem description, including a clear description of each variable, parameter and equation.
3. Simulation and/or analysis results.
4. Discussion of results, insights gained from your work. Clear explanation of how the mathematical model helped you learn more about the biological problem that was otherwise not possible.

**Evaluation** Here's a breakdown of points:

- (10 pts.) Presentation organization (no busy text, clarity, enriched with clear figures and diagrams) and delivery.
- (5 pts.) Clear explanation of the mathematical model (variable, parameters), methods (why a specific method is preferred over others).
- (15 pts.) Elaboration of the results, insights gained from simulation scenarios, conclusions reached.