Day 1 – morning

1. What is biological complexity?
2. Darwin and the evolution of evolution
3. Some introductory population genetics

Readings:


Day 1 – afternoon

Genetic drift and mutation simulation

Natural selection simulation (time permitting)
Day 2 – morning

1. Lecture on theory cooperation in biology and economics
2. An experimental economic game
3. Discussion of evolutionary transitions and multilevel selection

Readings:


Day 2 – afternoon

Cooperation simulation

1. Implement and experiment with a model focusing on spatial structure.
2. If for some reason, we get done with part #1, we can implement and experiment with a model focusing on ability of agents to behavior conditionally.