

READINGS FOR LECTURES:

Notes on SOC - Sections 5-6
 Bak-Sneppen Paper
 Bak-Sneppen Model Description
 Bak-Sneppen Model Implications

READINGS FOR FINAL PAPER

Lewin - Complexity - Chapter 3-4
 Holland - Emergence - Chapters 4

WEBSITE: <http://chaos.swarthmore.edu/courses/SOC002a/index.html>

ARTICLES ON WEBSITE - I will use selected portions of these papers in lectures. Thus, it would be useful for you to have at least looked at some of them. Some of the papers will be useful in your final paper depending on topic chosen.

The following papers are referred to in the Bak-Sneppen model of evolution.

- 14_Bak**(4 pages)
Self-Organized Criticality: Explanation of 1/f Noise
- 15_Bak**(12 pages)
Self-Organized Criticality
- 19_Flyvbjerg**(10 pages)
Evolution in a Rugged Fitness Landscape
- 20_Bak**(7 pages)
Coevolution in a Rugged Fitness Landscape
- 21_Wright**(18 pages)
Character, Change, Speciation and Higher Taxa
- 22_Lande**(6 pages)
Expected Time for random Genetic Drift of a Population between Stable Phenotypic States
- 28_Bak**(4 pages)
Punctuated Equilibrium and Criticality in a Simple Model of Evolution
- 29_Flyvbjerg**(7 pages)
Mean Field Theory for a Simple Model of Evolution
- Punctuated Equilibria - Eldredge**(34 pages)
Punctuated Equilibrium: An Alternative to Phyletic Gradualism