

Zoology 725: Syllabus Edits and Updates

NOTE: SOME OF THE READINGS HAVE BEEN MOVED AMONG DATES. ALSO, A COUPLE OF THE ORIGINAL READINGS HAVE BEEN CANCELED. LOOK CAREFULLY AT AUTHORS AND TITLES WHEN YOU OPEN THE PDFs, TO ENSURE THAT YOU ARE READING THE RIGHT ARTICLE!

30 MARCH

Trophic cascades: “collaborative reading of a new book on Trophic Cascades

Readings:

Selections from

John Terborgh and James A. Estes (eds.) in press, *Trophic Cascades*. Island Press, Washington D.C.

6 APRIL

First one-third to one-half of class: Finish “power-reading” of the Trophic Cascade book

Second part of class: Introduction to Adaptive Ecosystem Management

Readings:

Holling, C.S. 1986. The resilience of terrestrial ecosystems; local surprise and global change. In: W.C. Clark and R.E. Munn (eds.). *Sustainable Development of the Biosphere*. Cambridge University Press, Cambridge, U.K. Chap. 10: 292-317.

Holling, C.S. (editor) 1978. *Adaptive Environmental Assessment and Management*. Wiley, N.Y. Chapters 2 and 10.

13 APRIL

Review session – project findings

First – each student presents a one page summary of the main “news items” from the project

Second – students meet in groups of two or three to discuss their reports and get feedback from each other

Third – plenary discussion; starting point is a quick report from each student about next steps. Did directions change as a result of the feedback? What are the key milestones toward finishing the paper?

Fourth – general discussion of guidelines for presentation and written report.

13 APRIL

Adaptive ecosystem management – origins and the basic ideas

Readings:

Holling, C.S. (editor) 1978. Adaptive Environmental Assessment and Management. Wiley, N.Y. Chapters 2 and 10.

Holling, C.S., Chambers A.D. 1973. Resource science: the nurture of an infant. BioScience 23: 13-20.

20 APRIL

Unlocking traps in ecosystem management

Simulation with an ecosystem management game: <http://limnology.wisc.edu/ecogame/>

Readings:

Carpenter, S.R., C. Folke, M. Scheffer and F. Westley. 2009. Resilience: Accounting for the noncomputable. Ecology and Society 14. in press.

Holling, C.S., Chambers A.D. 1973. Resource science: the nurture of an infant. BioScience 23: 13-20.

27 APRIL

Adaptive ecosystem management – synthesis of current views

Readings:

Final chapter (Chapter 15) from Ecosystem Stewardship: Resilience-Based Natural Resource Management in a Changing World, ed. by F.S. Chapin III, G. Kofinas and C. Folke. Springer-Verlag, in press.

“Power Reading” of: Walker, B. and D. Salt. 2006. *Resilience Thinking*. Island Press, Washington DC.

4 MAY – LAST CLASS (CLASSES END 8 MAY)

Presentations of student projects

11 MAY

Written projects due at 0900 on Monday 11 May 2009