



EVPP 650 Ecosystem Analysis and Modeling

Instructor:
Dr. Changwoo Ahn

Fall 2020
001-lecture
201-lab
4-credits

For EVPP, BIOL, CEIE,
and more-open to
other
majors/concentrations

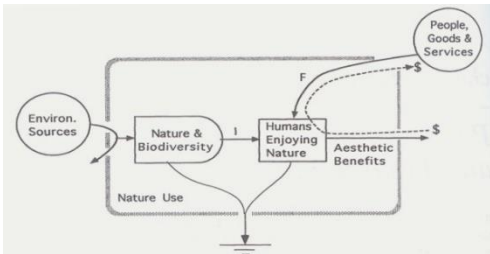
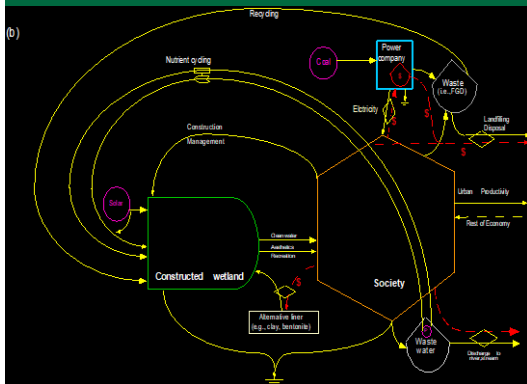


Figure 26.1 Overview of the way the economy is involved when people enjoy nature.

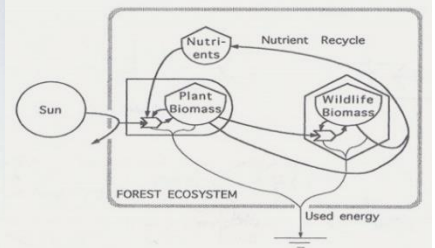


Figure 3.8 Forest ecosystem drawn with symbols.

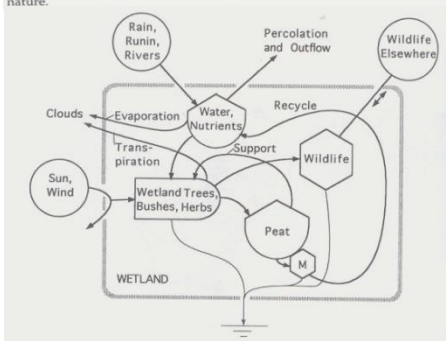


Figure 18.5 A systems diagram of a swamp (forested wetland) showing the processing of water and the buildup of peat. M = microbes.

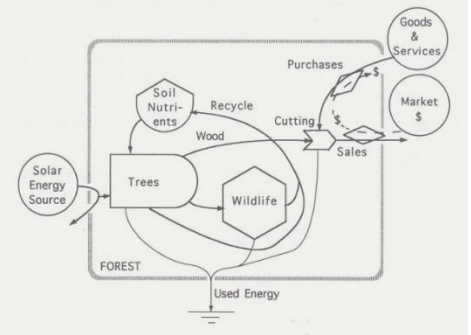


Figure 3.10 The forest economic system showing that energy and money flow in opposite directions.

Introduction to the *principles, history, and methodologies of systems ecology*, emphasizing the development and simulation of ecological/environmental models for *natural resource/ecosystem management*. Topics may include, the *nexus of water, energy and food* of environmental sustainability, focusing on creating a model for a variety of processes (e.g., *biogeochemical, socio-economic, and policy-oriented*) associated with *coupled human and natural systems*. For fall 2020, the class will include a topic of environmental sustainability in the era of COVID-19 as well.