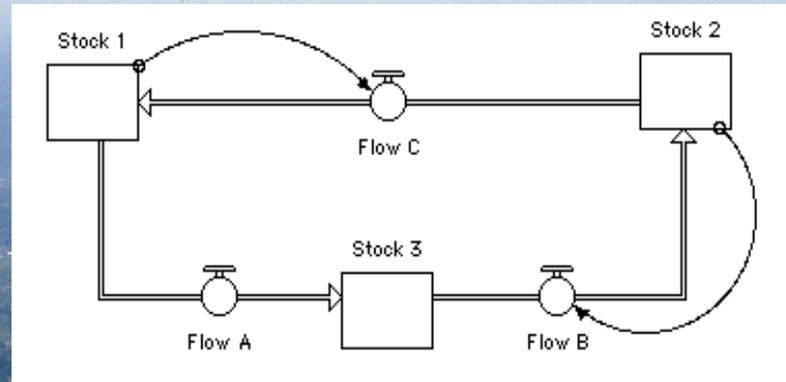


# Fall 2015 ENVR SCI 310/550

## Modeling Dynamic Environmental Systems

Tu/Th 9:10-10:25



Environmental systems are dynamic, interdependent and characterized by time lags and endogenous feedback. Students in this course will use system dynamics to design and analyze simulation models of ecological systems that include human interactions, impacts and policies. Models are built using visual stock and flow software that by design enables users to see the structure of the system of interest, and to relate the pieces of the system through simple algebraic relationships. The software then integrates coupled, non-linear, first order equations each time step to reveal the behavior of the system over time. Students should have competency in algebra; expertise in calculus or coding is not required.

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