



Mathematical Biology Seminar



**Monday, November 7, 2011
3 pm – 657 CAB**

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Functional differential equations I

In many applications it is assumed that the modeling system is governed by a principle of causality: the present state is independent of the past. However, in many situations, a more realistic model should incorporate some of the past history. Such models are usually called functional differential equations (FDEs) or delay differential equations (DDEs). In the first lecture, I will post some “real” FDE examples, show differences between FDE models and ODE models, and present basic theorems of FDEs.