Applied Community and Ecosystem Ecology
FW 321

Credit hours: 3

Term offered: Spring

Instructor: Garcia

Course content: Fisheries and Wildlife (FW 321) and its companion course Introduction to Population Dynamics were developed as a sequence focusing on ecological principles and their application to conservation. FW 320 emphasized population and metapopulation ecology and conservation. FW 321 will focus on conservation of biological communities and ecosystems. More specifically, FW 321 will examine:

1. Resource management paradigms. Traditional management paradigms and ecosystem management. Has there occurred in recent years a radical shift in our thinking about how resources should be managed?
2. Current scientific understanding of ecosystem processes and how this understanding can be applied to conservation of biological communities and ecosystems. The courses will address current conservation concerns such as protection of biodiversity, effects of habitat fragmentation on biological communities, species interactions including effects of introduced species and parasites in food webs, energy and material cycling, ecosystem stability and resilience, humans as a dimension of ecosystems, and ecosystem restoration.

Prerequisite or Corequisite: FW 320.

Text: Unspecified

Testing: Unspecified

Students for whom the course is intended: Juniors in Fisheries and Wildlife.