**FW4610 - Wildlife Ecology & Management**

Fall; 3 credits; Michigan Technological University; Tuesday & Thursday 8:05-9:20AM

**Target audience:** Advanced undergraduates in Forest Resources & Environmental Science, Biological Sciences

**Course Description:** To understand ecological mechanisms influencing the distribution and abundance of wildlife, to learn the ecological and historical foundations of wildlife management, to appreciate the current challenges in maintaining wildlife diversity in a human-dominated world, and to develop skills in critical assessment of information resources.

**Learning Objectives:** “Thinking like a manager.” Gain a general knowledge in wildlife ecology. Think beyond major and defined research areas. Learn to think critically about contemporary wildlife issues.

Organ et al. 2006. Thinking Like a Manager. Wildlife Management Institute, Washington, DC.

**Outline:**
- W1: Introduction, history, & evolutionary perspective
- W2: Food availability & nutritional requirements
- W3: Behavior & movement
- W4: Habitat relationships
- W5: Species interactions & trophic dynamics
- W6: Population dynamics I
- W7: Population dynamic II
- W8: Harvest & control
- W9: Fragmentation & connectivity
- W10: Ecosystems & focal species
- W11: Census techniques
- W12: Genetic considerations
- W13: Economics & Policy
- W14: Current topics
- W15: Class choice

**Grading:** Exams 30%; Written assignments & problem sets 50%; Film reviews 10%; Quizzes 10%.