

Statistical Applications in Wildlife Biology Spring Semester 2016

Instructor: Dr. Paul M. Lukacs
WILD 542 – 1 credits
Credit/No Credit

Class meeting time: Monday 12-1, FOR 314

Office Hours (FOR 307): MWF 11:10-12 or by appointment (paul.lukacs@umontana.edu)

Statistical applications in Wildlife Biology will explore statistical problems encountered by wildlife biology and ecology graduate students. Students will bring statistical problems of interest to class where we will explore potential analysis options, assumptions, pitfalls and alternatives to solve the problem as a group. Goals of the course include effective solutions to student problems, building knowledge of statistical software such as R, improving understanding of likelihood and Bayesian estimation methods, and improving communication skills for quantitative methods.

Each student is expected to lead a discussion on a statistical problem of his or her choice. The student will present the problem as well as the biological question driving the statistical problem. The student should also provide the class with relevant reading(s) prior to the discussion. The class will then discuss the problem and work towards a solution. Students are also expected to attend class and participate in discussions.

Schedule

January 25	Introduction
February 1	MCMC methods
February 8	MCMC methods
February 15	No Class
February 22	William Deacy
February 29	Kristin Barker
March 7	Jacob Powell
March 14	No class
March 21	Rennie Winkleman
March 28	Sam Pannoni
April 11	Jenny Helm
April 18	Zak Robinson
April 25	
May 2	