

**Analysis of Animal Populations
FW 661**

Credit hours: 5

Term offered: Winter, alternate years, 08, 10.

Instructor: Robert Anthony

Course objectives:

1. Introduce advanced students to quantitative methods for estimating vital statistics of wildlife populations.
2. Stress the importance of testing critical assumptions and statistical inference in population analysis.

Course content:

1. Estimation of population size from capture-recapture data and distance sampling.
2. Methods for estimating survival from capture-recapture and radio telemetry studies.
3. Estimation of population stability.
4. Emphasis on hypothesis testing and model selection.

Prerequisites: St 511, 512 or equivalent; 3 credits in animal ecology.

Text: Class lecture notes and suggested readings from the literature.

Term papers: None

Testing: Short quizzes, 3 mid-term exams.

Students for whom the course is intended: Graduate students interested in biometrics and vertebrate population biology.