

Welcome to OEB 249R. In this course we will discuss recent advances in ecological studies of animal movement. The course will examine movement in differing ecological contexts and different approaches to collecting and analyzing empirical movement data.

Timing & Format: Weekly seminar, Wednesdays 3:00-5:45 pm EST. Weekly Readings and Discussion will be based around primary literature studies of animal movement (journal articles, review articles and book chapters)

Location: The Turner room (the seminar room next to MCZ101 on the 1st floor of the MCZ building)

Syllabus:

The syllabus will develop over time based on interests of the seminar group. However, anticipated topics include:

- Forms of movement (e.g. Home ranges, foraging, migration, dispersal)
- Methods for analyzing movement data
- Technologies for measuring patterns of movement
- Behavioral processes underlying movement (e.g. memory decision-making)
- Movement energetics.

September 6th: Introduction

What is movement ecology?

September 13th: Is Movement Ecology a paradigm shift? recent advances in measurement technologies and their implications

Readings:

[Nathan et al. 2009.pdf](#)

[Hebblewhite et al. 2010.pdf](#)

September 20th: applications of GPS telemetry data in ecology

Reading: continued discussion of Hebblewhite et al 2010 (see above)

September 27th: applications of GPS telemetry data in ecology

Reading:

[Durner et al. 2009.pdf](#)