

# Wildlife management and game animal ecology

## 755328 Wildlife management and game animal ecology

Scope: 5 cr.

Timing: B.Sc. 3rd or M.Sc. 1st autumn. NNE.

Objectives: After carrying out the study module the student will be able to recognize special ecological traits of the game animals and relate them to the general ecological framework. The student will be also to appraise the basics of sustainable harvest of game animals. critically judge varying wildlife management methods from the scientific starting point.

Contents: Ecology of the game species, their life histories, population dynamics and predator-prey relationships. Hunting ecology: man as predator, management and hunting of the game species. The impact of forestry on the game species populations. Students are also introduced to wildlife management in practice and to the social aspect of wildlife-human relationship.

Working methods: 24 h lectures, one-day excursion to a game management model area, seminar and final exam.

Assessment methods: Seminar and final exam.

Grading: 1-5 / Fail.

Responsible person: Dr. Jouni Aspi, Dr. Kari Koivula.

Other information: The course will take place if sufficient resources are available.

Language of instruction: English (Finnish)

### Time table for autumn 201

Lecture room changes, cancellations (some will happen) etc: Keep on eye you e-mail, these pages, Tuudo and Oodi. We'll send messages about these by Oodi mail, but only the registered students get them.

### *Lecture handouts in course material*

Time	Room	Lecturer	Subject
Tue 11.09. 8-10	TA101	Kari Koivula	Introduction
Tue 18.09 8-10	SÄ110	KK	Hunting and game policy in Finland
Tue 25.09. 8-10	TA101	KK	Man as a predator
Tue 2.10. 8-16	Field	Jouni Aspi	Excursion The place: <a href="http://tinyurl.com/nzpekhs">http://tinyurl.com/nzpekhs</a>
Fri 5.10. 12-14	TA101	KK	Population growth: hunting mortality and natural mortality
Tue 09.10. 8-10	TA101	KK	Population growth: natural mortality and predator control
Fri 12.10. 12-14	TA101	KK	Population growth: Migration, translocation and game management
Tue 30.10 8-10	TA101	Tamara Hiltunen	"Wildlife Management in a South African Context".

Fri 02.11. 12-14	TA101	Ilpo Kojola	"Conservation and management of large carnivores"
Tue 06.11. 8-10	TA101	Pekka Helle	'Population dynamics of small game species'.
Fri 09.11. 14-16	PR101	Antti Oksanen	"Wildlife Health and Disease Ecology"
Tue 13.11. 8-10	SÄ112	Jouni Aspi	"Genetic methods in Wildlife Ecology and Management"
Fri 16.11 12-14	TA101	Jeffrey Welker	"Stable Isotopes as a tool to study Predatory-prey interactions, carnivore & ungulate foraging ecology."
Fri 23.11. 12-14	TA101	Samu Mäntyniemi	"Individual based simulation model in wolf population assessment"
Tue 27.11 14-16	AT 115B	All	Seminar I
Fri 30.11 12-14	L7	All	Seminar II
Tue 04.12.18 16.15-19.15	L1		Exam

## Seminar titles and time table

### *Available titles, key articles, and some instructions in course material*

*November 27th*

**14.15-14.40, Janne Welling, Jukka Aho, Juho Harmoinen:** Molecular forensics in wildlife biology

**14.40-15.05, Tarja Tähtinen, Oona Könönen & Noora Kantola:** Climate change and arctic food webs

**15.05-15.30, Roosa Harju, Evellina Airaksinen & Jani Kettunen:** Uncertain information and risk of overharvest

**15.30-15.55, Sophia Mizza, Claudia Florentin, Leo Despains:** Conservation implications of wildlife translocations

*November 30th*

**12.15-12.40 Erwin Alijando, Mahdi Aminikhah & Anwarul Islam:** Harvesting data and grouse abundance

**12.40-13.05 Margareta Kettunen, Marjo Heikkinen & Jesse Parker:** Predator benefiting the prey?

**13.05-13.30 Verane Bard, Sophie Klotz, Candice Carmona & Eva Prosperini:** Influence of predator removal and its covariation with climate on prey.

**13.30-13.55 Astrid Olejarz, Ekaterina Karabanina & Sanne Bergman:** Habitat fragmentation and brown bear populations

## Course Material