Schedule for ANIMAL BEHAVIOUR /DJURENS BETEENDE (BIOF08), SPRING SEMESTER 2017

**Dates:** 20/03 - 02/06.

**Locations:** See L@L

**Course book:** Breed and Moore, Animal Behavior, 2nd edition; Academic Press

**Teachers:**
- AB Anders Brodin, Professor, Evolutionary Ecology, teacher in charge, tel: 2224143 (24143) email: Anders.Brodin@biol.lu.se, room A211 in the Ecology Building
- CJ Christoffer Johansson Westheim, Associate Professor, Evolutionary Ecology
- CN Cecilia Nilsson, PhD, Evolutionary Ecology
- GS Glenn Svensson, Associate Professor, Functional Zoology
- JA Jep Agrell, Director for undergraduate studies
- JN Julio M Neto, Post doctoral fellow, MEMEG
- MO Mathias Osvath, Scientific director, Cognitive Science Centre
- MT Michael Tobler, Post doctoral fellow, MEMEG
- RM Rachel Muheim, Assistant Professor, Functional Zoology
- SM Suzan Mansourian, PhD student, Functional Zoology
- UU Utku Urhan, PhD student, Evolutionary Ecology

**Others:** Bodil Sjögren (lecturer Functional Zoology), Anders Forslid (University veterinarian), Anders Herlin, lecturer SLU Alnarp, Olof Liberg former coordinator the Swedish wolf project

**Examination:** Written examination at the end of the course. The projects at the end of the course are also a part of the grading. **Observe that presence is mandatory for all parts of the course except for the lectures.**

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<tr>
<th>Time</th>
<th>Topic, teacher</th>
<th>Room</th>
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<td>Week 12:</td>
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<tr>
<td>Wednesday 22/03</td>
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<td>10.00 – 11.00 Roll call, introduction (AB, UU, SM)</td>
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<td>11.00 – 12.00 What is ethology and behavioural ecology (AB)</td>
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<td>13:00 – 15:00 Framing animal behaviour (Ch 1, AB)</td>
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<td>Thursday 23/3</td>
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<td>10.00 – 12.00 Behaviour and endocrinology (Ch 2, MT)</td>
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<td>Friday 24/3</td>
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<td>10.00 – 12.00 Animal Cognition 1: Introduction and methods (MO)</td>
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### Week 13
#### Monday 27/3
10.00 – 12.00 Homeostasis, behaviour and neurobiology (Ch 2, 4, RM)  F
13.00 – 15.00 The genetics of behaviour (Ch 3, JN)  F

#### Tuesday 28/03
10.00 – 11.00 Pheromones and male moth flight behaviour (GS)  F
11:00 – 12:00 Bird flight in the wind tunnel (CJ)  F
13.00 – 14.00 Cognition in tits (UU)  F
14:00 – 15:00 Neuroethology of Drosophila (SM)  F
15:00 – 16:00 Bird migration (CN)  F

#### Wednesday 29/03
10.00 – 12.00 Literature seminar Chapters 3-4 (RM, MT, JN)  S
13.00 – 14.30 Demonstration session 1 (insects and pheromones (GS), bird flight in wind tunnel (MH), cognition in tits (UU), bird migration (??), Neuroethology of Drosophila (SM)
14.30 – 16.00 Demonstration session 2 (GS, MH, UU, KH, SM)

#### Thursday 30/3
10.00 – 12.00 Learning (Ch 5, AB)  F
13.00 – 14.30 Demonstration session 3 (GS, MH, UU, CN, SM)
14.30 – 16.00 Demonstration session 4 (GS, MH, UU, CN, SM)

#### Friday 31/3
10.00 – 12.00 Movie: signals for survival, Tinbergen (UU, SM)  Film
13.00 – 14.30 Demonstration session 5 (GS, MH, UU, CN, SM)
14.30 – 16.00 Demonstration session 6 (extra, if someone missed a session)

### Week 14
#### Monday 03/04
10.00 – 12.00 Introduction to animal welfare (CJ)  F
13.00 – 16.00 Movie: Film: Signals and songs, Life of birds (UU, SM)  Film

#### Tuesday 04/04
09.00 – 11.00 Behaviour and welfare in cattle and pigs (AH)  F
11.00 – 12.00 Early lunch
13.00 – 16.00 Visit to farm (AH, CJ, UU)

#### Wednesday 05/04
10.00 – 11.00 Domestication of animals (CJ)  F
11.00 – 12.00 Behaviour and welfare in dogs and cats (CJ)  F
13.00 – 15.00 Social system in the wolf, the wolf in Sweden (Olof Liberg)  F

#### Thursday 06/04
10.00 – 12.00 Animal welfare in animal research (AF)  F
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<tr>
<th>Date</th>
<th>Time</th>
<th>Course Title</th>
<th>Instructor(s)</th>
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<tr>
<td>Friday 07/04</td>
<td>10.00 – 12.00</td>
<td>Legal aspects on animal research (BS)</td>
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<td>13.00 – 15.00 Animal welfare and ethics in Zoos (JA)</td>
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<td>Week 15:</td>
<td>Monday 10/04</td>
<td>10.00 – 12.00 Animal Cognition 2: memory and planning (Ch 6 MO)</td>
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<td>13.00 – 15.00 Literature seminar chapters 5-6 (SM, UU)</td>
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<td>Tuesday 11/04</td>
<td>10:00 – 12:00 Communication (Ch 7, AB)</td>
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<td>13.00 – 15.00 Animal personalities (MT)</td>
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<td>Wednesday 12/04</td>
<td>10.00 – 12.00 Movement (Ch 8, RM)</td>
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<td>13.00 – 15.00 Literature seminar chapters 7-8 (RM, UU, SM)</td>
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<td>Easter Vacation</td>
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<td>Week 16:</td>
<td>Tuesday 18/04</td>
<td>10.00 – 12.00 Foraging (Ch 9, AB)</td>
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<td>13.00 – 15.00 Movie: Trials of Life 4. Hunters and escaping (UU, SM)</td>
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<td>Wednesday 19/04</td>
<td>09.00 – 14.00 Group 1: Visit to raven facility (MO, UU)</td>
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<td>Thursday 20/04</td>
<td>09.00 – 14.00 Group 2: Visit to raven facility (MO, SM?)</td>
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<td>Friday 21/04</td>
<td>10.00 – 12.00 Self defence (Ch 10, UU)</td>
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<td>13.00 – 15.00 Literature seminar chapters 9-10 (MT, UU)</td>
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<td>Week 17:</td>
<td>Monday 24/04</td>
<td>10.00 – 12.00 Mating systems and sexual selection (Ch 11, MT)</td>
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<td>13.00 – 15.00 Movie: Great migrations, born to move (UU, SM)</td>
<td>Film</td>
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<td>Tuesday 25/04</td>
<td>10.00 – 12.00 Nesting, parenting and territoriality (Ch 12, UU)</td>
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<td>13.00 – 15.00 Literature seminar chapter 11 – 12 (UU, MT, SM)</td>
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<td>Wednesday 26/04</td>
<td>10.00 – 12.00 Social behavior, cooperation and kinship (Ch 13) AB</td>
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<td>Thursday 27/04</td>
<td>10.00 – 12.00 Comparative social behaviour (Ch 14) AB</td>
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Tuesday 02/05
10.00 – 12.00 The evolution of human behaviour CJ F

Wednesday 03/05
10.00 – 12.00 Conservation and behaviour (Ch 15) MT F
13:00 – 15:00 Literature seminar chapters 13-15 (UU, MT) S

Thursday 04/05
09:00 – 17:00 Visit to Ystad Animal Park, exercise enrichment of environments (JA, UU, SM?)

Friday 05/05
10.00 – 11:00 Questions to teachers
11.00 – 16.00 Examination studies

Week 19:
Monday 08/05
10.00 – 16.00 Examination studies

Tuesday 09/05
10.00 – 16.00 Examination studies

Wednesday 10/05
09.00 – 13.00 Written examination test helklass
14:00 – 15:00 Presentation and start of projects

Thursday 11/05
09.00 – 17.00 Project work

Friday 12/05
09.00 – 17.00 Project work

Week 20
Monday 13/5
09.00 – 17.00 Project work

Tuesday 14/05
09.00 – 17.00 Project work

Wednesday 15/05
09.00 – 17.00 Project work

Thursday 19/05
09.00 - 17.00 Project work or data analysis and writing project report
Friday 20/05
09.00 – 16.00 Data analysis and writing project report

Week 21:
Monday 23/05
09.00 – 16.00 Data analysis and writing project report

Tuesday 24/05
09.00 – 16.00 Data analysis and writing project report

Wednesday 25/05
09.00 – 16.00 Data analysis and writing project report

Week 23:
Monday 30/05
10.00 – 15.00 Finalizing project report
15:00 Hand in reports

Tuesday 31/05
10.00 – 16.00 Reading reports from other groups

Wednesday 01/06
10.00 – 12.00 Project presentations helklass
13.00 – 15.00 Project presentations helklass
15:00 – 16.00 Course evaluation helklass

Thursday 02/06
09.00 – 13.00 Re-examination test