Evolutionary Animal Ecology Bior81, 4 Nov 2019 - 17 Jan 2020

Department of Biology, Lund University

Information: Introduction: Monday 4 Nov 10:00 in Kärret. The course book should be available (paperback cheapest) at Akademibokhandeln, Bokus.com and Adlibris.se. Buy the course book well ahead of the course start date - you need to start reading the book from the first day of the course! Other material (e.g. scientific papers) are handed out during the course.


Course leaders: Dennis Hasselquist, Phone: 046-2223708 (work), mobile phone: 0730514552, Email: dennis.hasselquist@biol.lu.se. Susanne Åkesson, Phone: 046-2223705 (work), mobile phone: 0702-450423, Email: susanne.akesson@biol.lu.se.


Location: Main room for course: 1=Kärret (B131) (Ecology Building, Sölvegatan 37). Other rooms: 2=Backsippan (A141), 3=Blåsippan (A142), 4=Gulsippan (A143); 5=Lingonet (T105); 6=Masklaven (T105a); 7=Maskrosen (E121); 8=Raggmossan (T109); 9=Red room (see also web schedule at L@L)

Teaching activities: Teaching activities: L = (lecture), S = (book seminar), Sa = (article seminars), GEx = (group exercise), OwnP = (Own Project), SteEx = (Stensoffa excursion), Ind (Independent studies)

Compulsory activities are (marked with C in schedule below): 1. All exercises and seminars, 2. Stensoffa excursion, 3. Literature project (own project); 4. Written exam; 5. Conference. (If you are absent from a compulsory activity without a valid reason you are not guaranteed to complete this part until next time the course is offered. A valid reason is e.g. illness, but not that you are travelling!)

Before the start of the course please read the 3 documents at current student, Biology Department:

Localities

Safety regulations

Plagiarism and cheating policy

Additional information for students can be found at

Current student at LU

Students rights and guidelines

Current student at Dept. of Biology

<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
<th>Activity</th>
<th>Description</th>
<th>Teacher</th>
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<tbody>
<tr>
<td>Mo. 4 Nov.</td>
<td>10:00-11.30</td>
<td>C</td>
<td>Introduction (compulsory)</td>
<td>DH,SÅ</td>
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<tr>
<td></td>
<td>11.30-12.15</td>
<td>OwnP</td>
<td>Start of Own Literature Project</td>
<td>MF, LR,DH</td>
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<tr>
<td></td>
<td>13.15-15.30</td>
<td>L</td>
<td>EVOLUTION</td>
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<tr>
<td>Tu. 5 Nov.</td>
<td>08.30-13</td>
<td>SteEx</td>
<td>Excursion to Stensoffa – collect data</td>
<td>LR,HSi,JÅN,MF</td>
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<td>Date</td>
<td>Time</td>
<td>Day</td>
<td>Session</td>
<td>Description</td>
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<td><strong>We. 6 Nov.</strong></td>
<td>9.00-14.00</td>
<td>Ind</td>
<td>LR, DH, SÅ</td>
<td>OWN WORK (read book, Own Lit. project)</td>
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<td></td>
<td>14.00-16.15</td>
<td>S</td>
<td>LR, DH</td>
<td>Ch 1 + Ch 2 (not 2.5)</td>
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<td>L</td>
<td>AH</td>
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<td>11.15-12.00</td>
<td>OwnP</td>
<td>LR, MF</td>
<td>Choice of subject for Own Literature project</td>
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<td></td>
<td>13.00 -</td>
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<td>LR, MF</td>
<td>OWN READING (book chapter)</td>
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<td><strong>Fr. 8 Nov.</strong></td>
<td>9.00-12.00</td>
<td>S</td>
<td>LR</td>
<td>Ch 3 (p.87-110) + Ch 4 (p.123-153 1st 7 lines) + Ch 6.3 (215-228, not box 6.6, 6.7)</td>
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<td>13.00 -</td>
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<td><strong>Mo. 11 Nov.</strong></td>
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<td>NW</td>
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<td>13.00 -</td>
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<td>LR</td>
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<td><strong>Tu. 12 Nov.</strong></td>
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<td>S</td>
<td>ES</td>
<td>Ch. 16 (+ Ch. 10.5 p401-403)</td>
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<td>10.45-12</td>
<td>L</td>
<td>ES</td>
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<td>AR</td>
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<td>LR</td>
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<td>ES</td>
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<td>Ind</td>
<td>LR</td>
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<td>BH</td>
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<td>10.30-12.00</td>
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<td>BH, DH</td>
<td>Discuss articles: Speciation</td>
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<td><strong>Mo. 18 Nov.</strong></td>
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<td>X</td>
<td>SÅ, FA, GS, LH</td>
<td>Introduction to Ecophysiol. Projects</td>
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<td>SÅ, FA, GS, LH</td>
<td>Ecophysiol. Projects – oral reports</td>
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<td>L</td>
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<td>Locomotion</td>
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<td>13.00-14.30</td>
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<td>TA</td>
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<td>14.45-15.45</td>
<td>L</td>
<td>SÅ</td>
<td>Biological compasses</td>
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<td>L</td>
<td>SÅ</td>
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<td>ÅL</td>
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<td>13.00-16.00</td>
<td>Ind</td>
<td>ÅL</td>
<td>OWN WORK (Lit. project)</td>
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<td><strong>Mo. 25 Nov.</strong></td>
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<td>JÅN, DH</td>
<td>OWN READING (Book ch)</td>
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<td></td>
<td>13.00-14.30</td>
<td>L</td>
<td>JÅN, DH</td>
<td>Cost of reproduction</td>
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<td>15.00-16.00</td>
<td>L</td>
<td>DH</td>
<td>Cost of immune responses and disease</td>
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<td><strong>Tu. 26 Nov.</strong></td>
<td>9.00-12.00</td>
<td>S</td>
<td>JÅN, DH</td>
<td>Ch13 + Ch10.6 +Ch12.4 (p. 491-494)</td>
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<td>13.00-14.30</td>
<td>L</td>
<td>DH</td>
<td>Maternal effects</td>
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<td>14.30 -</td>
<td>Ind</td>
<td>DH</td>
<td>OWN READING (articles)</td>
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<td><strong>We. 27 Nov.</strong></td>
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<td>Sa</td>
<td>JÅN, DH</td>
<td>Discuss articles: Life history</td>
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<tr>
<td>Date</td>
<td>Time</td>
<td>Type</td>
<td>Subject</td>
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<td>Th. 28 Nov.</td>
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<td>L</td>
<td>Social mating systems</td>
<td>DH</td>
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<td><strong>MATING SYSTEMS &amp; SEXUAL SELECTION</strong></td>
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<td>Fr. 29 Nov.</td>
<td>13.00-17.00</td>
<td>L/X</td>
<td>No classes</td>
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<td><strong>Experimental design</strong></td>
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<td>Mo. 2 Dec.</td>
<td>9.00-12.00</td>
<td>L</td>
<td>Models sexual selection &amp; Evolutionary conflicts</td>
<td>JAb</td>
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<td></td>
<td>13.00-16.30</td>
<td>Ind</td>
<td>OWN READING/WORK (Book ch, Lit. project)</td>
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<td>Tu. 3 Dec.</td>
<td>9.00-13.00</td>
<td>GEx</td>
<td>Evolutionary Biology &amp; Society</td>
<td>ES</td>
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<tr>
<td>We. 4 Dec.</td>
<td>9.00-10.30</td>
<td>L</td>
<td>Genetic mating systems</td>
<td>DH</td>
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<td>10.45-12.15</td>
<td>Ind</td>
<td>Mate choice</td>
<td>HW</td>
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<td></td>
<td>13.15-16.00</td>
<td>S</td>
<td>Ch.11 (not 11.5 &amp; page 444) Sexual selection</td>
<td>DH, HW</td>
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<td>Th. 5 Dec.</td>
<td>9.00-16.30</td>
<td>Ind</td>
<td>OWN WORK (Lit. Project)</td>
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<td>13.00-17.00</td>
<td>L</td>
<td>Resit many courses period 2</td>
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<td>Fr. 6 Dec.</td>
<td>9.00-16.30</td>
<td>Ind</td>
<td>OWN WORK (Lit. Project)</td>
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<td>Mo. 9 Dec.</td>
<td>9.00-16.30</td>
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<td>OWN WORK (Lit. Project)</td>
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<td>Tu. 10 Dec.</td>
<td>9.00-10.30</td>
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<td>OWN WORK (Lit. Project)</td>
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<td><strong>Deadline:</strong> submit Lit project on course web site</td>
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<td>We. 11 Dec.</td>
<td>9.00-10.15</td>
<td>L</td>
<td>Co-evolution processes</td>
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<td>10.45-12.15</td>
<td>L</td>
<td>Signals and communication</td>
<td>OA</td>
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<td>13.15-14.15</td>
<td>Ind</td>
<td>Information: Conference &amp; oral pres of Lit. project</td>
<td>DH, SÅ</td>
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<tr>
<td>Th. 12 Dec.</td>
<td>09.00-10.30</td>
<td>S</td>
<td>Ch. 14, but not 14.4 &amp; 14.7</td>
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<td>13.00-17.00</td>
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<td>OWN READ (articles + Ch12:1-2,5)</td>
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<td>Fr. 13 Dec.</td>
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<td>Population variation in sex pheromones</td>
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<td>10.45-12.15</td>
<td>L</td>
<td>Cooperation &amp; kin selection</td>
<td>CC</td>
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<td></td>
<td>13.15-14.15</td>
<td>L</td>
<td>Why zebras have stripes</td>
<td>SÅ</td>
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<td>14.30-16.00</td>
<td>Sa</td>
<td>Discuss articles - Evolution of sex pheromones</td>
<td>OA, GS</td>
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<td>Mo. 16 Dec.</td>
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<tr>
<td>Tu. 17 Dec.</td>
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<td>We. 18 Dec.</td>
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<td>Sa. 21 Dec.</td>
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<td>Mo. 6 Jan</td>
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<td>Tu. 7 Jan.</td>
<td>9.00-16.30</td>
<td>OwnP</td>
<td>Oral report Lit. projects - groups 1 &amp; 2</td>
<td>JAb, MF, CC, LR</td>
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<td>We. 8 Jan.</td>
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<td>OWN WORK: Preparation for Conference</td>
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<td>Th. 9 Jan.</td>
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<td>Tu. 14 Jan.</td>
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<td>GEx</td>
<td>Conference: presentations group 1</td>
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<td>DH, SÅ</td>
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<td>16.00-16.30</td>
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<td>We. 15 Jan.</td>
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| Fr. 17 Jan.| 9.00-16.30 |         | Reexam & (Last day submit revised Lit. Project) | DH, SÅ