

<b>Behavioral Ecology</b>					
<b>Course Code</b>	DIC 8013				
<b>Credits</b>	Three ( lectures: 3 hr per week)				
<b>Organizers</b>	Dr. Sheng-Feng Shen				
<b>Lecturers</b>	Dr. Sheng-Feng Shen				
<b>Time</b>	14:10-17:00, Wednesday				
<b>Place</b>	9/10(First Class): S604, NTNU Other classes:4C, Life Science building, National Taiwan University				
<b>Prerequisites</b>	None				
<b>Description</b>	The course is designed for graduate students who want to better understand the evolution, adaptive significance, and mechanisms of animal behavior. Active learning will be crucial for taking this course and every participant of the course will be asked to explain and discuss course contents in every class.				
<b>Purpose</b>	<ol style="list-style-type: none"> <li>1. To inspire a greater curiosity about animal behavior (including human).</li> <li>2. To gain mastery at asking and answering questions about the mechanisms and evolution of behavior.</li> </ol>				
<b>Reference</b>	Textbook <u><a href="#">An Introduction to Behavioural Ecology, Fourth Edition by Davies, Krebs, West (Wiley-Blackwell, 2012)</a></u>				
<b>Grade</b>	<table style="width: 100%; border: none;"> <tr> <td style="width: 70%;">Discussion and Exams</td> <td style="text-align: right;">50%</td> </tr> <tr> <td>Written Assignment</td> <td style="text-align: right;">50%</td> </tr> </table>	Discussion and Exams	50%	Written Assignment	50%
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<b>W</b>	<b>Date</b>	<b>Topic</b>	
W1	9/10	Course Introduction	Yuying Hsu@NTNU
W2	9/17	Natural Selection, Ecology and Behavior	Sheng-Feng Shen@AS
W3	9/24	Testing Hypotheses in Behavioral Ecology	Sheng-Feng Shen@AS
W4	10/1	Economic Decisions and the Individual	Sheng-Feng Shen@AS
W5	10/8	Predators versus Prey: Evolutionary Arms Races	Sheng-Feng Shen@AS
W6	10/15	Competing for Resources and Living in Groups	Sheng-Feng Shen@AS
W7	10/22	Sexual Selection, Sperm Competition and Sexual Conflict	Sheng-Feng Shen@AS
W8	10/29	Parental Care and Family Conflicts	Sheng-Feng Shen@AS
W9	11/5	Mating Systems and Sex Allocation	Sheng-Feng Shen@AS
W10	11/12	Social Behaviors and Cooperation	Sheng-Feng Shen@AS
W11	11/19	Altruism and Conflict in the Social Insects	Sheng-Feng Shen@AS
W12	11/26	Communication and Signals	Sheng-Feng Shen@AS
W13	12/3	Special topic: Life history evolution and Fishing	Hui-Yu Wang@AS
W14	12/10	Special topic: Genetics, genomics and Behavior	John Wang@AS
W15	12/17	Special topic: Darwinian Medicine	Sheng-Feng Shen@AS
W16	12/24	Special topic: Ecological consequences of sociality	Sheng-Feng Shen@AS
W17	12/31	Project presentation	Sheng-Feng Shen @AS
W18	1/7	Project presentation	Sheng-Feng Shen @AS

**Note:**

You may buy the textbook from an online bookstore. Please read Chapter 1 before the class on 9/17. You will be quizzed on its contents. If you do not have a copy of the book yet, you can obtain the PDF of Chapter 1 from the publisher's website ([http://media.wiley.com/product\\_data/excerpt/69/14051141/1405114169.pdf](http://media.wiley.com/product_data/excerpt/69/14051141/1405114169.pdf)). Please do not hesitate to contact the lecturers (Dr. Sheng-Feng Shen and Prof. Yuying Hsu) if you have any questions about this course.