

Block Course

Zoology and Evolutionary Biology



duration: 8 weeks; 15 credit points
time slot: first half of spring term; 3rd year
language: English
recommended lectures: Bau und Vielfalt der Tiere, Evolutionsbiologie



This course provides theoretical and practical experience in zoology, evolutionary biology and related fields. A major part of the course consists of planning and carrying out a research project. Along this line, themes such as development and writing of a research project, scientific writing, scientific presentation and discussion of current research topics are introduced. The course topics and the projects are representative of the ongoing research in the zoology/evolutionary biology groups in Basel.

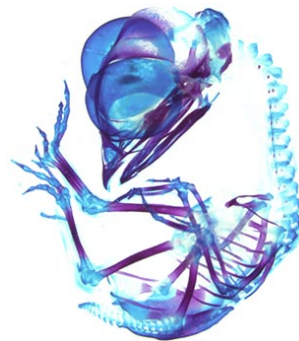
The practical part of the course lasts six weeks (there is compulsory attendance). Thereafter, there are two weeks for exam preparations. The final grade is determined by the exam and the practical work.

Selected topics of the course are:

- ▶ Animal body plans
- ▶ Animal development and developmental genetics
- ▶ Organismal evolution
- ▶ Molecular evolution
- ▶ Experimental zoology

The main emphasis of the course is practical work, for example in:

- ▶ Anatomy and histology
- ▶ Microscopy, image analysis and morphometrics
- ▶ DNA- and RNA sequencing
- ▶ Phylogenetics and population genetics
- ▶ Experimental design
- ▶ Data analysis



Responsible person: Prof. Walter Salzburger (walter.salzburger@unibas.ch)

Co-organizers: PD Dr. Valentin Amrhein
Dr. Daniel Berner
Prof. Dieter Ebert
Dr. Fabrizia Ronco
Dr. Lukas Schärer
Prof. Patrick Tschopp

