



SUBJECT DATASHEET

Semester:	2009/10/2
Subject:	Zoology
Code:	VEMKLIB212Z
Responsible department:	Department of Limnology
Responsible department code:	MKLI
Responsible lecturer:	dr. András Liker

Educational objectives:

The aim is to provide an introduction to animal diversity. We reviews the important stages of animal evolution, describe the basic anatomy, physiology and life history of major animal phyla.

Detailed content of the subject:

1. Introductory lecture: what is zoology, what are the basic forms of animal life. 2. Types of animal ontogenetic development and reproduction. 3. Phylogeny of animals. Basic principles in animal systematics. 4. Anatomy and main groups of sponges, cnidarians and platyhelminthes. 5. Anatomy and main groups of nemerteans, nematodes, and rotifers. 6. Anatomy and main groups of molluscs and annelid worms. 7. Arthropodes I: anatomy and main groups of myriapodes, chelicerates, and crustaceans. 8. Arthropodes II: anatomy and main groups of insects. 9. Anatomy of echinoderms, hemichordates, cephalochordates. 10. Anatomy and main groups of fish. 11. Anatomy and main groups of amphibians. 12. Anatomy and main groups of reptiles. 13. Anatomy and main groups of birds. 14. Anatomy and main groups of mammals. 15. Closing lecture.

Requirements:

During the exam students have 20-25 minutes to explain their exam topics. Evaluation: Mark 1 (unacceptable): the student is unable to provide a brief outline of the topic and unfamiliar with the definitions of basic ideas. Mark 2: the student is able to understand the basic ideas of the course. Mark 3: the student is able to understand the basic ideas of the course, and can discuss the basic logical structure of his/her exam topic with some help from the teacher. Mark 4: the student is able to discuss logically all important knowledge of his/her exam topic, but unfamiliar with the relevant literature. Mark 5 (excellent): the student is able to discuss logically and in detail all important knowledge of his/her exam topic, and familiar with the relevant literature.

Required and suggested references:

Bakonyi, G. (szerk.) 2003. Állattan. Mezőgazda Kiadó, Budapest. Zboray, G. (szerk.) 1995. Összehasonlító anatómiai praktikum I-II. Nemzeti Tankönyvkiadó, Budapest. Hickman, C.P, Roberts, L.S. & l'Anson, H. 2001. Integrated principles of zoology. McGraw & Hill, New York. Ruppert, E.E. & Barnes, R.D. 1996. Invertebrate zoology. Brooks Cole.