

General Information			
Course name and code	Animal Physiology UBEV/FZ1/10	ECTS Credits	6
		Semester	2nd (Summer) Bachelor Degree
Aims			
<p>This course introduces the students to the general concepts of animal physiology, the principles of homeostasis and of the homeostatic mechanisms. The students receive detailed information about the functioning of the organs of the body from macroscopic to molecular level. The development of the physiologic functions during phylogenesis is shortly overviewed, too.</p>			
Contents			
<p>Introduction to animal physiology. Homeostatic principles. Physiology of blood, heart and circulatory systems. Physiology of respiration. The hormonal control system. Basic neurophysiology. Functions of the nervous system. Excretory physiology. Mechanisms of muscle contraction and muscular work. Sensory physiology. Physiology of reproduction. Thermoregulatory mechanisms. Gastrointestinal physiology. Metabolism of the main nutrients. Acidobasic balance.</p> <p>Prerequisites: Cell biology Histology, Anatomy.</p>			
Evaluation			
Test/oral examination.			
Bibliography			
Hill, Wyse, Anderson: Animal Physiology. Sinauer Publ., 2008			