

**Course name: Basics of zoology** (USOS Code: B-B.2002Eng)

**ECTS:** 5

**No. of hours:** 60 (15 lectures + 45 classes)

**Course coordinator:** Dr hab. Ewa Pietrykowska-Tudruj, prof. UMCS

**Prerequisites:** General knowledge of animals' biology at the high school level

**Course description:** This course will contain basic information on the modern concepts in taxonomy, and phylogeny of living and extinct animals according to their biology and bionomy. The complex relationships between living organisms on different levels of body organization and the importance, and use of selected groups in medicine will be presented. Both lectures and laboratories will contain such issues as: biological nomenclature, animals' systematics; phylogeny – tree of life, protozoan groups; development of multicellular animals, characteristics of Porifera and Cnidaria; Triploblastic protostomes; Lophotrochozoa: phyla Annelida and Mollusca; characteristics of Ecdysozoa: phylum Arthropoda, classes: Crustaceomorpha, Chelicerata, Myriapoda, and Hexapoda; characteristics of phylum Chordata, subphylum Vertebrata, classes: Pisces, Amphibia, Reptilia, Aves, and Mammalia.

**Recommended literature:** Hickman C.P., Jr., Roberts L.S., Keen S.L., Eisenhour D.J., Larson A. 2008. Integrated Principles of Zoology. Publisher: McGraw Hill Education.

Miller S.A., Harley J.P. 2016. Zoology. Publisher McGraw-Hill Education.

Ruppert E.E., Fox R.S., Barnes R.D. 2004. Invertebrate Zoology. A functional Evolutionary Approach. Publisher: Brooks/Cole Pub Co.