

## Tárgytematika / Course Description

### Biology

MENB\_ÁTTA034

**Tárgyfelelős neve /**

**Teacher's name:** dr. Bali-Papp Ágnes Jolán

**Félév / Semester:** 2020/21/1

**Beszámolási forma /**

**Assesment:** Vizsga

**Tárgy heti óraszám /**

**Teaching hours(week):** 3/1/0

**Tárgy féléves óraszám /**

**Teaching hours(sem.):** 0/0/0

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### OKTATÁS CÉLJA / AIM OF THE COURSE

In the frame of the subject the students get knowledge about the atoms and molecules that composed of living systems. The aim of the subject is to make the students acquainted with the basis of animal and plant cell, cell organelles, body systems structure and functions and processes of metabolism. The task of the subject is to make the students acquainted with the basis of anatomy and physiology of domestic animals. The examinations with microscope and an introduction to body systems of mammals offers students for future study and practice and acts as a quick review of the basics for courses in animal production. Understanding these guiding principles will provide students with better understanding of complex make-up of domestic animals and continued success in further study in this field.

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### TANTÁRGY TARTALMA / DESCRIPTION

1. Introduction to Biology
2. Tools and methods in Biology; Classification – The basics of Taxonomy
3. Atoms and Molecules The Chemical Basis of life
4. Cell Construction and Function
5. Organs and Tissues of Plants
6. Animal Tissues
7. Cardiovascular and Respiratory System
8. Basic function and mechanism of endocrine system
9. Immune System
10. Musculoskeletal System
11. Reproductive System
12. Digestive system: digestion and absorption.

13. Microbiome

14. The Continuity of life. Evolution

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### **SZÁMONKÉRÉSI ÉS ÉRTÉKELÉSI RENDSZERE / ASSESMENT'S METHOD**

How to take account oral exam attending 2/3 of the presentations is a condition of signing.

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### **KÖTELEZŐ IRODALOM / OBLIGATORY MATERIAL**

E.Solomon – D. Martin – L-Berg – C. Martin (2018) Biology CENGAGE Learning Custom Publishing 11. edition

Bárdos L. – Husvéth F. – Kovács M: (2007) Basis of anatomy and physiology of farm animals. Mezőgazda , Budapest,

J.M. Walker-R. Rapley(2009) Molecular Biotechnology. Royal Society of Chemistry, Oxford

B. Alberts. – A. Johnson – J. Lewis – M. Raff – K. Roberts – P. Walter (2002) Molecular Biology of the Cell, Garland Science, New York