



Keilir
Miðstöð vísinda,
fræða og atvinnulífs

Biology 1A (LÍF1A06)

Preliminary University Studies Department

Course description

This course deals with the foundations of biology. Amongst the topics discussed are the matter that living organisms are made of, the structure and functions of cells and metabolism in plants and animals. The basics of classical genetics, molecular genetics and genetic engineering will be discussed. An overview of the physiology of plants and animals and selected organ systems will also be taught in the course. An emphasis will be put on the endocrine system, the nervous system, the heart and circulatory system, the respiratory system and nutrition. Healthy functions of a body and common deviations will be discussed.

Prerequisites (Required preparation)

Chemistry 2A in the Preliminary University Studies Department

Competence level

2

Credits

6

By the end of the course

The student has acquired knowledge and understanding of:

- the basics of biochemistry, cell biology and genetics
- the basic structure of the body of plants and animals

The student has acquired the skill to:

- write reports in connection with hands-on activities
- see the connection between organ systems and how they work together
- retrieve information on cell biology, physiology and genetics from flow charts

Student can use the knowledge and skill which he/she has acquired to:

- work independently and be responsible for his/her own study progress
- work in groups to, among other things, gain a bigger understanding of the curriculum
- explain how the different organ systems are controlled and the effect they have on each other
- explain the reasons for most genetic diseases

Course assessment:

The course is assessed in a variety of ways, there among group work, individual assignments, quizzes and a final exam that will make up part of the final grade.