

Basic Biology

Syllabus Number

7A110

Common Core Courses

Free Elective 1

credit

SAITO, Takeshi

1. Course Description

- Exercises on the basis of biology. The contents will learn about "characteristics of organism", "gene and its work". Learn mainly about animals, but also learn about plants depending on the contents.
- Leverage teaching materials that utilize information equipment to deepen understanding. Group work according to the exercise contents and deepen understanding.

2. Course Objectives

Learn the basic knowledge of biology necessary to understand lecture contents of specialized subjects. Increase interest in living things and utilize the basic knowledge gained.

3. Grading Policy

Evaluate by Practice problem / Comprehension test (20%) and Periodic test (80%).
Return and explain the comprehension test.

4. Textbook and Reference

Textbook

- Not specially.
- Distribute exercise materials as necessary.

5. Requirements(Assignments)

Distribute exercise materials in advance, so please check the next exercise content carefully before you go to class. Since we will conduct a comprehension test of last exercise contents at the beginning of class, please review it. A preliminary review over 90 minutes each time is necessary.

6. Note

- Prepare a Notebook, a Writing instrument, and a File to save the material.

7. Schedule

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| [1] | Biodiversity and commonality |
| [2] | Structure and function of eukaryotic cells |
| [3] | Formation of individuals |
| [4] | Life activities and energy |
| [5] | Energy conversion in living body |
| [6] | Biological and genetic |
| [7] | Structure of DNA |
| [8] | Distribution of genetic information |
| [9] | Cell cycle and DNA replication |
| [10] | Replication of DNA using complementarity of base |
| [11] | Genetic law 1 Single gene hybrid, Two gene hybrids |
| [12] | Genetic law 2 Various genetic inheritance |
| [13] | Genetic information and protein synthesis①. Transfer |
| [14] | Genetic information and protein synthesis ② Translation |
| [15] | Test, Summary |