

General Biology

Syllabus Number 3F142

Basic Major Subjects

Elective 2 credit

ASAHINA, Masashi

1. Course Description

This class will provide several topics on life science for human engineering, including the evolutionary history; life cycles; cellular growth and development; structure and function of human body systems; response to environmental factors; current topics of biotechnology against the environmental problem and food crisis.

2. Course Objectives

The aims of this course are to understand the essential background on life science for human engineering, including the evolutionary history; life cycles; cellular growth and development; structure and function of human body systems; response to environmental factors; current topics of biotechnology against the environmental problem and food crisis.

3. Grading Policy

Progress report(20%), Practical Test(80%).

4. Textbook and Reference

Textbook

A Handout and resources will be provided throughout the course.

Reference

N/A

5. Requirements(Assignments)

Students of Dept.Biosciences are not allowed to attend.

6. Note

N/A

7. Schedule

- | | |
|------|---------------------------------|
| [1] | Introduction |
| [2] | The origin of life |
| [3] | Life evolution |
| [4] | What is Cell? |
| [5] | Heredity |
| [6] | Gene |
| [7] | Reproduction |
| [8] | Development |
| [9] | Human body |
| [10] | Neurology |
| [11] | Behavior |
| [12] | Energy metabolism |
| [13] | Homeostasis |
| [14] | Immune system |
| [15] | Current topics in Biotechnology |