<table>
<thead>
<tr>
<th>Course title</th>
<th>Integrated Evolutionary Biology</th>
</tr>
</thead>
<tbody>
<tr>
<td>Term</td>
<td>後期 2nd Half</td>
</tr>
<tr>
<td>Credit(s)</td>
<td>2</td>
</tr>
<tr>
<td>The main day</td>
<td>The main period</td>
</tr>
<tr>
<td>School/Program</td>
<td>School of Advanced Sciences</td>
</tr>
<tr>
<td>Department/Program</td>
<td>Department of Evolutionary Studies of Biosystems</td>
</tr>
<tr>
<td>Category</td>
<td>Basic Education</td>
</tr>
<tr>
<td>Lecturers</td>
<td>Yoko Satta, Tatsuya Ota, and others</td>
</tr>
</tbody>
</table>

**Outline**

Biosystems on the earth can be classified into systems with different levels of complexity, from a cell to society. This course is to discuss evolution of such systems from viewpoints of "elements (members) in each system", "interaction between elements" and "theory to describe this interaction".

**Goal**

To get basic knowledge of biology, from the viewpoint of Evolution.

**Grading system**

| Grading system | 02: Two-grade evaluation (P: Pass, F: Fail) |

**Grading policy**

The grading of this course is either P(Pass) or F(Failure).

**Lecture Plan**

Schedule: November 4, December 14, 15, 22, 2023 January 30.

Contents:
1. Tree of life - basic knowledge of molecular evolution (Yoko Satta)
2. Human evolution - genetics, adaptation, environment (Jun Gojobori)
3. Prediction for future - mathematical and theoretical biology (Hisashi Ohtsuki)
4. Animal behaviour - mechanism and evolution (Nobuyuki Kutsukake)
5. Genomes, chromosomes, and cells (Yoko Satta, Tatsuya Ota, Hideyuki Tanabe)

**Location**

Hayama

**Language**

English

**Textbooks and references**

Not specified

**Others**

None

**Keyword**

* SATTA YOKO