## Confirm - Syllabus

**Course title**: Introductory statistics for life science

**Term**: 2nd Half

**Credit(s)**: 1

**School/Program**: School of Life Science

**Department/Program**: Common Subjects of Life Science

**Category**: Common

**Lecturers**: Junji Nakano

### Instructor

**Full name**

NAMBU ATSUSHI

### Outline

Basic knowledge and skills in statistical analyses useful for brain science research will be introduced in lectures using statistical software.

### Goal

1. To understand principles of Descriptive statistics (including data visualization) and Inferential statistics (including hypothesis testing and parameter estimation).
2. To obtain basic skills in Multivariate analysis and Time series analysis.
3. To introduce principles of Big data analysis.

### Grading system

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<thead>
<tr>
<th>Grading system</th>
<th>01: Four-grade evaluation (A, B, C, D)</th>
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### Grading policy

Based on attendance, projects and homeworks etc.

**Lecture Plan**

2 days Intensive course

(9:15~10:45, 11:00~12:30, 13:30~15:00, 15:15~16:45 on both day)

Schedule: Monday, 6th February 2023

1. Descriptive statistics
2. Probability I
3. Probability II
4. Estimation I

Schedule: Monday, 13th February 2023

5. Estimation II
6. Hypothesis testing I
7. Hypothesis testing II
8. Multivariate methods

### Location

Zoom online

### Language

Spoken - language in this subject changes alternately: English in 2022

### Textbooks and references

None

### Related URL

http://obs.jp.nips.ac.jp/schedule/

### Explanatory note on above URL

Please keep be updated on the latest schedule from "Schedule of the classes" on the program website.

### Others

No particular background knowledge is required.

**Keyword**

SOKENDAI Integrative Brain Science Course