

Module Code	19349017	Course Term
Course Subject Name	Elementary Statistics	Autumn Semester
Course Tutor	Hisako Nomura	
Credit	2	Taught Day
Schools	School of Agriculture	MON-1
Taught Year	The 2nd year	
Campus	Ito campus	
Subject Area	Lecture	
Course Subject Classification	Common basic subject	
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Course Requirements		
Course Requirement (Pre-requisite)		

Course Outline

In this course, it is designed for the students to acquire the general understanding of statistics. The students will gain theoretical concepts as well as analytical techniques using data. This course is based on class lectures and exercises.

key words

Study Objectives (General)

To increase students' understanding of statistics

Study Objectives (Specific)

- a) Increase the knowledge of statistics
- b) Acquire statistical analytical techniques

Course Plan

Please note that the course plan can be tentative and could be adjusted according to the reactions of the students.

Weekly Schedule:

1. Chap. 1&2 Introduction: types of variables and graphs and Mean, median, quartiles, standard deviation
2. Chap. 3&4 Normal distributions, Scatterplots and correlation
3. Chap. 5&6 Regression and two way tables
4. The 1st Test
5. Chap. 8&9 Producing data: sampling and experiments
6. Chap. 10&11 Probability and sampling distributions
7. Chap. 12&13 General rules of probability and binominal distributions
8. Chap. 14&15 Introducing inference, p-value and z-value
9. 2nd Text
10. Chap. 17&18 t-distribution, population mean estimation and two sample problems
11. Chap. 19&20 inference about a population proportion and comparing two proportions (Inference about variables: review)
12. Chap 22. Two-categorical variables: the chi-square test
13. Chap 23 Regression, least-square approach
14. Chap 24 One-way analysis of variance: Anova
15. Final Exam

Course Approaches

Textbooks
 The Basic Practice of Statistics, Fifth Edition. (David S. Moore)
 Study Guide with Selected Solutions for Moore's "The Basic Practice of Statistics", Fifth Edition (Michael Fligner)

Reference Books

**Study consultation
(office hour)**
 Office: West 5, Floor 4, Rm 458, Ito campus
 Office Hours: after class or with prior appointment
 Email: hnomura@agr.kyushu-u.ac.jp
 (through this e-mail, you can consult other professors in the course)
 Phone: (092) 802-4762

**Exams/Results
Evaluation Method**
 · First exam 30%
 · Mid-term exam 30%
 · Final exam 40%

Others
<http://www.agr.kyushu-u.ac.jp/english/>