Course number		U-LAS11 10002 LE55									
	Introductory Statistics-E2 Introductory Statistics-E2					name and d	ructor's e, job title, department filiation		Graduate School of Medicine Assistant Professor, VEALE, Richard Edmund		
Group Nat	tural Sci	iences			Field(Classification)			Data	Data Science(Foundations)		
Language of instruction English				Old group Group B				Number of credits 2			
Number of weekly 1 Class st time blocks			Class sty	le Lecture (Face-to-face course)			urse)	Ye	Year/semesters 2024 • First semester		
Days and periods				Target year A		All stuc	idents		gible students	For all majors	
[Overview and purpose of the course]											
Statistical methods are used throughout science, but there is often a wide gap between basic statistics courses and how statistical methods are applied in the scientific literature. This course intends to narrow this gap by introducing students to basic statistical concepts and by providing insight into how these concepts are used in the "real" scientific world. This will entail descriptive statistics, inferential statistics, and data visualization. Real-world examples will be drawn from the behavioral and life sciences, medicine, and epidemiology. The language of instruction in this course is English which will help to understand the statistical terminology in the scientific literature.											
[Course objectives]											
 To acquire basic statistical knowledge and the ability to conduct basic statistical analysis. To be able to critically read scientific reports and to judge their quality in terms of statistical methodology. 											
[Course schedule and contents)]											
 Introduction Data collec Data collec Data collec Data editing 2 by 2 table Tests for in Risk ratios Tests of dif Random sa Probability Tests of tw Correlation How to us Hor to us Further stu Feedback 	tion: Su tion: Ex g and su es: Chi-s depende and odd ference mpling, y distrib vo mean ns and r e statist	perime square ence: F ls ratio of two randor outions s regress	ents and c y tests Fisher's ex proportion mization, and limit	act test ons and sat	s mple siz	ze calcu	lations				

Introductory Statistics-E2(2)

[Course requirements]

None

[Evaluation methods and policy]

Evaluation will be based on class attendance and active participation (30 points), written reports as homework (50 points) and 5 random in-class (open-note) quizzes, the lowest of which will be dropped (20 points). The quizzes and reports are to test whether the students have achieved the course goals. Students who are absent more than four times will not be credited.

[Textbooks]

Not used

Lecture notes will be provided during the course.

[References, etc.]

(References, etc.)

Klein, Dabney ^C The cartoon introduction to statistics ⁽ (Hill and Wang Pub) ISBN: 0809033593

[Study outside of class (preparation and review)]

To achieve the course goals, students should review the lecture material and practice with homework provided in class. This class uses the statistical software JMP which is available to Kyoto University students. The time necessary for review should be in the range of 3 hours per class.

[Other information (office hours, etc.)]

No fixed office hours, but students are welcome to arrange appointments by email.