

<<Last Updated:2024/02/13>>

Course Schedule Information

Course Code	881164
Semester	Spring and Summer Term
Day and Period	Fri2
Course Name (Japanese)	統計学
Course Name	Statistics for Social Research
Capacity	0
Room	School of Human Sciences/Presentation room
Course Numbering Code	88INES9U100
Required/Optional	Online/オンライン授業 履修対象：特別聴講学生 人科G30_Z26057
Type of Class	Lecture Subject
Credits	2.0
Student Year	1
Instructor	POZSGAI ALVAREZ Joseph
Course of Media Class	Not Applicable

※About Course of Media Class

"Course of Media Class" are classes in which more than half of the classes are held in places other than classrooms by making advanced use of various media.

Undergraduate students can include up to 60 credits in media class course as requirements for graduation.

Even if this is not the case, we may hold classes using the media.

Detailed Syllabus Information

Course Subtitle	Statistics for Social Research	
Language of the Course	English	
Learning Methods	<p>Listening and watching face-to-face/online class: Listening and watching a lecture, video, or demonstration, face-to-face or via online (e.g., attending a face-to-face lecture, watching an on-demand video)</p> <p>Reading: Reading books and academic papers (e.g., summarizing an academic paper, reading information on a website)</p> <p>Research: Collecting information from books and academic papers; gathering and analyzing data by fieldwork (e.g., review of previous research, fieldwork)</p> <p>Presentation: Writing papers, making presentations, and creating works (e.g., report writing, oral/poster presentation, creation of works, portfolio development)</p>	
Course Objectives	<p>This course provides an understanding of basic statistical concepts and enables students to utilize basic methods and skills to analyze and interpret quantitative data. Students are introduced to the basic concepts involved in correlational and inferential approaches to statistical analysis. The course will provide students with practical skills in using spreadsheet software (Excel) and statistical software (Jamovi).</p>	
Learning Goals	1	<p>(1) Knowledge: After taking this course, students will be able to assess the quality of statistical methods and results found in the academic literature. (2) Skills: After taking this course, students will be able to process and analyze data using spreadsheet software (Excel) and statistical software (jamovi), and interpret the results.</p>
Requirements, Prerequisites	None	

Attendance and Student Conduct Policy		
Class Plan	1st	Title:Introduction: sample vs population
		The introductory class reviews the basic concepts and ideas in statistics.
		Instructor :
		Independent Study Outside of Class : Reading: Larson & Farber, Ch. 1
	2nd	Title:Frequency distributions and measures of central tendency,
		This class reviews the creation of frequency distributions and the difference between mean, median, and mode.
		Instructor :
		Independent Study Outside of Class : Reading: Larson & Farber, Ch. 2
	3rd	Title:Variance and standard deviation
		This class focuses on measures of spread when describing data.
		Instructor :
		Independent Study Outside of Class : Reading: Larson & Farber, Ch. 2
	4th	Title:Z-scores and probability
		This class introduces one of the most important concepts that will be used later for the analysis of statistical relations: the z-score.
		Instructor :
		Independent Study Outside of Class : Reading: Larson & Farber, Chs. 3, 4.1
	5th	Title:Probability and normal distributions
		This class reviews the importance of the normal distribution.
		Instructor :
		Independent Study Outside of Class : Reading: Larson & Farber, Ch. 5, 6.1 & 6.2
	6th	Title:The central limit theorem and confidence interval
		This class introduces the preliminary concepts used for testing statistical relations.
		Instructor :
		Independent Study Outside of Class : No reading.
	7th	Title:Hypothesis testing with one sample and statistical significance
		This is the first class involving the statistical testing of research hypotheses.
		Instructor :
Independent Study Outside of Class : Reading: Larson & Farber, Ch. 7.1-7.3		
8th	Title:Hypothesis testing with one and three+ samples	
	This is the second class involving the statistical testing of research hypotheses.	
	Instructor :	
	Independent Study Outside of Class : Reading: Larson & Farber, Ch. 10.1 & 10.2	
9th	Title:Hypothesis testing with one and three+ samples (cont.)	
	This is the third class involving the statistical testing of research hypotheses.	
	Instructor :	
	Independent Study Outside of Class : No reading.	
10th	Title:Mid-term review I	
	Topic to be provided.	
	Instructor :	
	Independent Study Outside of Class : No reading.	
11th	Title:Mid-term review II	
	Topic to be provided.	
	Instructor :	

	Independent Study Outside of Class : No reading.					
12th	Title:Describing the relationship between two variables: correlation					
	This is the fourth class involving the statistical testing of research hypotheses.					
	Instructor :					
	Independent Study Outside of Class : Reading: Larson & Farber, Ch. 9.1					
13th	Title:Describing the relationship between two variables: correlation (cont.)					
	This is the fifth class involving the statistical testing of research hypotheses.					
	Instructor :					
	Independent Study Outside of Class : Reading: Larson & Farber, Ch. 10.4					
14th	Title:Predicting the response of dependent variables: Linear and logistic regression					
	This is the sixth class involving the statistical testing of research hypotheses.					
	Instructor :					
	Independent Study Outside of Class : Reading: Larson & Farber, Ch. 9.2-9.4					
15th	Title:Final: independent data analysis project presentation					
	Students present the results of their individual research projects.					
	Instructor :					
	Independent Study Outside of Class : No reading.					
16th	Title:Feedback					
	Students receive feedback on their work.					
	Instructor :					
	Independent Study Outside of Class : No reading.					
Textbooks	For all sessions, both remote and in-person, reading and other related materials will be provided in digital form ahead of time.					
Reference						
Grading Policy *Hover the mouse over the number of a learning goal to view the full text of it.	Evaluation Methods	Midterm exam	Report/paper			
	Learning Goals1	○	○			
	Allocation of Marks	40%	60%			
Additional Information on Grading	<p>Students are expected to (1) participate in class and (2) take the examinations. All scores on exams and activities will be based on 100 points. The final grade for this course will be determined by the following formula:</p> <p>Mid-term review: 40% Final project: 60%</p> <p>Late submission of assignments will be penalized with a 90% cap for the first 24 hours, and an additional 5% penalty for each day thereafter.</p>					
Reasonable Accommodation	<ul style="list-style-type: none"> If you need reasonable accommodation to participate in this class due to disability (including intractable disease and chronic condition), please contact the office for students with disabilities (e.g., Educational Affairs Section, Academic Affairs Section, Student Affairs Section) at your school/faculty or graduate school, or the Disability Advisory and Support Service Office of the Health and Counseling Center. For more information, please visit the following website or contact the Disability Advisory and Support Service Office of the Health and Counseling Center. Website : https://acs.hacc.osaka-u.ac.jp Tel : 06-6850-6107 E-mail : campuslifekenkou-ac@office.osaka-u.ac.jp 					
Special Note						
Office Hours						
Course Conducted by Instructors with Practical Experience						

Instructor(s)

Instructor Name	Name (hiragana)	Affiliation, Title, Course	Office	Extension	E-mail
No data found					

Cautions for Students

--