<<Last Updated:2023/12/27>>

Course Schedule Information

Course Code	Z26057
Semester	Spring and Summer Term
Day and Period	Fri2
Course Name (Japanese)	Statistics for Social Research
Room	School of Human Sciences/Presentation room
Course Name	Statistics for Social Research
Capacity	0
Course Numbering Code	01HUSC3M200
Credits	2.0
Student Year	2,3,4
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.

Basic Syllabus Information

Subtitle	
Eligibility	

Detailed Syllabus Information

Course Subtitle	Statistics for Social Research
Language of the Course	English
Type of Class	Lecture Subject
Course Objective	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).
Learning Goals	(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 couse, students will be able to process and analyze data using spreadsheet software (Excel) and statistical software (jamovi), and interpret the results.
Requirement / Prerequisite	None
Class Plan	please refer to the weekly plans.

1st	Period: Day: Title:Introduction: sample vs population	
	Reading: Larson & Farber, Ch. 1	
2nd	Period: Day: Title:Frequency distributions and measures of central tendency,	
	Reading: Larson & Farber, Ch. 2	
3rd	Period: Day: Title:Variance and standard deviation	
	Reading: Larson & Farber, Ch. 2	

4th	Period: Day: Title:Z-scores and probability	
	Reading: Larson & Farber, Chs. 3, 4.1	
5th	Period: Day: Title:Probability and normal distributions	
	Reading: Larson & Farber, Ch. 5, 6.1 & 6.2	
6th	Period: Day: Title:The central limit theorem and confidence interval	
7th	Period: Day: Title:Hypothesis testing with one sample and statistical significance	
	Reading: Larson & Farber, Ch. 7.1-7.3	
8th	Period: Day: Title:Hypothesis testing with one and three+ samples	
	Reading: Larson & Farber, Ch. 10.1 & 10.2	
9th	Period: Day: Title:Mid-term preparation	
10th	Period: Day: Title:Mid-term review I	
11th	Period: Day: Title:Mid-term review II	
12th	Period: Day: Title:Describing the relationship between two variables: correlation	
	Reading: Larson & Farber, Ch. 9.1	
13th	Period: Day: Title:Hypothesis testing with three+ samples: Analysis of variance (ANOVA)	
	Reading: Larson & Farber, Ch. 10.4	
14th	Period: Day: Title:Predicting the response of dependent variables: Linear and logistic regression	
	Reading: Larson & Farber, Ch. 9.2-9.4	
15th	Period: Day: Title:Visualizing social relations: Network Analysis	
16th	Period: Day: Title:Final: independent data analysis project	
17th	Period: Day: Title:Creating composite variables: Principal Component Analysis; Identifying latent factors: Exploratory Factor Analysis	

Independent Study Outside of Class	Students are expected to read the required materials and come prepared for each class as that will affect their capacity to engage in active participation. Students will also be asked questions during class about the content in the required materials.
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	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: Mid-term review: 40% Final project: 60% 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.
Other Remarks	(1) I will make myself available to answer questions and provide additional instruction if needed via email (anytime) and Zoom/Skype (by appointment). (2) This syllabus is subject to revisions as required by the speed of progress and in response to special circumstances.
Special Note	
Office Hour	

Messages to Prospective Students	

Instructor(s)

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

Cautions for Students