

Course Schedule Information

Course Code / 時間割コード	881164
Semester / 開講区分(開講学期)	Spring and Summer Term
Day and Period / 曜日・時間	Fri2
Course Name (Japanese) / 開講科目名	統計学
Course Name / 開講科目名(英)	Statistics for Social Research
Capacity / 定員	0
Room / 教室	人/本館プレセッションルーム
Course Numbering Code / ナンバリング	88INES9U100
Required/Optional / 必修・選択	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 / 授業形態	Lecture Subject
Credits / 単位数	2.0
Student Year / 年次	1
Instructor / 担当教員	POZSGAI ALVAREZ Joseph
Course of Media Class / メディア授業科目	Not Applicable

Detailed Syllabus Information

Course Subtitle / 授業サブタイトル	Statistics for Social Research	
Language of the Course / 開講言語	English	
Learning Methods / 学習方法	<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 / 授業の目的と概要	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 / 学習目標	1	(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.
Requirements, Prerequisites / 履修条件・受講条件	None	
Attendance and Student Conduct Policy / 出欠席及び受講に関するルール		
Class Plan / 授業計画	1st	Title:Introduction: sample vs population
		The introductory class reviews the basic concepts and ideas in statistics.
		Instructor:
	2nd	Independent Study Outside of Class:Reading: Larson & Farber, Ch. 1
		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 / 教科書・指定教材	For all sessions, both remote and in-person, reading and other related materials will be provided in digital form ahead of time.					
Reference / 参考図書・参考教材						
Grading Policy / 成績評価	Evaluation Methods / 評価方法	Midterm exam	Report/paper			
	Learning Goals1	○	○			
	Allocation of Marks / 評価割合	40%	60%			
Additional Information on Grading / 成績評価に関する補足情報	<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 / 合理的配慮	<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-acs@office.osaka-u.ac.jp 					
Special Note / 特記事項						
Office Hours / オフィスアワー						
Course Conducted by Instructors with Practical Experience / 実務経験のある教員による授業科目						