

SOSC 2140: Research Methods in the Social Sciences

Class Hours: TU & TR 15:00-16:20 p.m.

Spring 2023

Instructor: Wen WANG

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Office Hours: TU 16:30-17:30 p.m.

Class Room: 4582

Web: Canvas

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TA:

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Course Description

This course offers a broad overview of principles in research design and introduces some fundamental research methods. The course covers the logic of research question, framing of research story, and selection of research techniques such as survey, experimentation, and quantitative analysis. The course serves as an introduction to research, helping translate general research interests into a well-defined research question, design a study to investigate it, and interpret the results to give research/political inferences.

The purpose of this class is:

to provide students guidance on research design including story framing, data collection and data analysis, empirical design and empirical analysis.

Course Format

This course will be taught in a blended/flipped format. You are encouraged to view the online lectures to prompt your understanding of social science research:

- Video P1: [Social Science Approaches to the Study of Chinese Society Part 1](https://www.coursera.org/learn/social-science-study-chinese-society) (<https://www.coursera.org/learn/social-science-study-chinese-society>)
- Video P2: [Social Science Approaches to the Study of Chinese Society Part 2](https://www.coursera.org/learn/social-science-research-chinese-society) (<https://www.coursera.org/learn/social-science-research-chinese-society>)

Course Policy

Assessments

Assessments of this course include both individual work and group work. We will split the class into 8-10 groups. Students can choose their group members. The size of the groups will depend on total enrollment. The groups should have a roughly equal number of students. Please go to the [link](#) to complete your group information before **March 1st**.

For the group project, your team will collaborate to write a research proposal using what you have learned in class to carry out promising research. Each group will give two presentations to collect feedback and promote their research. For the individual work, you are required to develop a reading report on three assigned papers.

- **10%** of your grade will be determined by your participation in class.¹
- **40%** of your grade will be determined by a reading report. This is **individual work**. You read three papers chosen from the **reading list** under the same topic to write a **three-page** reading report (i.e., table, chart and reference excluded). Some guidelines for the referee report:
 - **Format:** A4 size, 1-inch margins, 12-point, Times New Roman font, 1.25 spaced
 - **Structure:** 1. summarize the paper, including its research question, contribution, data, methods, and conclusion; 2. verify how the data/method help address the problem 3. thinking about the reasons for choosing the methods in the paper (i.e., data limitation, story related reasons) and whether other methods are applicable using same data for the same research question.
 - **April 12th** is the deadline for submitting the reading report.
- **50%** of your grade will be determined by a research proposal (**25%**) and two presentations (**25%**) as a group project.

Research Proposal:

- **Format:** up to 20 pages including reference, tables and charts; A4 size, 1-inch margins, 12-point, Times New Roman font, 1.25 spaced. (*You can use the Manuscript Template in the Resources section*)
- **Structure:**
Abstract: (1 page, 100-150 words) summary of key points to inform the non-experts audience of the nature of the research

¹we randomly select 20 classes to calculate attendance. You have probability to get free absence.

Research Question: (1 pages) research question, its background and significance (i.e., Why is the research worth doing?)

Previous Research: (1-2 pages) a review of the relevant literature and a discussion of previous studies to reveal contributions of your research

Hypothesis: (1 page) your expected answer to the research question

Data: (1-2 pages) data collection process, variables of interest, summary statistics of available data

Research Design: (2-3 pages) your plan to analyze the data, discuss features (i.e., variations, statistics) in data and possible quantitative methods that would address the research question and verify your hypothesis.

Reference: see [referencing guide](#) for reference format

– Tables and Charts: put all the tables and charts to the end of your proposal, number them properly and quote them in the body of the proposal

– **May 15th** is the submission date of the final draft of research proposal.

- **Presentation:**

Your team will give two presentations in this course. You may decide the presenters by yourselves. When one group is presenting, the other group will act as discussants, i.e. stopping and asking the presenters questions. Students need to submit the presentation slides through their email to the TA one day before the presentation. I will take a note of each group's performance for grading.

– **Presentation 1: Time: March 23 and March 28;**

Aim: introduce the preliminary **idea**, its **significance**

Schedule: assign your presentation time using [the Canvas Page](#) before Mar 10.

– **Presentation 2: Time: May 2 and May 9;**

Aim: introduce your research **question**, **data**, and promising research **design**

Schedule: assign your presentation time using [the Canvas Page](#) before Apr 20.

- **Peer Evaluation Form:**

Each group member is required to download the anonymous peer evaluation form from Canvas, fill it and send it to me after submission of the research proposal and before **May 15th**. **20%** of your grade from the group works will be determined by the peer evaluations. **80%** will be determined by the works' quality.²

- **Tutorial: March 21 class**

1. instructions for reading papers and writing reports; 2. data analysis and fundamental quantitative methods

²The group works includes two group presentations and one research proposal, which count for 50% of your grade.

Grading Policy

- **Late submission:** late delivery of due items will **NOT** be accepted.
- **Re-grade policy:** if you want to ask for regrading, please submit your argument in writing along with your assignment. We will reassess your entire assignment using the copies we saved for regrading. The answer to “[grade grubbing](#)” is “no” and your grade may end up lower after reassessment.
- **Grading Guidelines:** <https://registry.hkust.edu.hk/resource-library/grading-courses>

Grade	Percentage
A	10-25%
B	25-40%
C	25-40%
D	5-10%
F	0-5%

E-mail Policy

I am usually quick to respond to student emails. To avoid missing your emails, I prefer you answer my email in 2 days. I will not respond to certain emails students sent including emails for missed class for which there was no presentation, emails to request an extension on an assignment for which the syllabus already established the deadline.

Free-rider Policy

- [Guidance to avoid or deal with the free-rider issue](#)
- I will not define anybody to be “free rider” directly. If all the other team members agree that they don’t want to keep collaborating with one person, please comply the following rules to split the team: 1. each group member need to send an email to TA to justify their request. 2. the peer evaluation (10% of total score) will not be split. 3. the student who leaves the group must find a new proposal & presentation topic.

Academic Dishonesty Policy

HKUST is committed to high standards of [academic honesty](#). Cheat and plagiarism are not acceptable. According to guidelines of the university, plagiarism/cheat cases typically resulted in at least the failure of a course. If you have any concern about this, include a proper citation/quotes and use software(i.e., [turnitin](#), [iThenticate](#)) to detect plagiarism.

To protect personal information and team registration information, **please go to Canvas to download the syllabus with hyperlinks.**

Class Schedule (Tentative)

Please check the class schedule for updates as class contents are subject to change, contingent on enrollment size, mitigating circumstances and the progress we make as a class.

Week	Topic	Date	Notes	Due
1	Introduction	Feb 7	Course Overview	-
		Feb 9	Research Example	
2	Data	Feb 14	Types of Data	-
		Feb 16	Data Collection	
3	Measurement	Feb 21	Sampling	-
		Feb 23	Measurement	
4	Causality	Feb 28	Quantitative Analysis	Form a Team (Mar 1)
		Mar 2	Causality	
5	Treatment	Mar 7	Treatment	-
		Mar 9	Counterfactual	
6	Experiment I	Mar 14	Randomization	-
		Mar 16	Example	-
7	Presentation 1	Mar 21	Tutorial	-
		Mar 23	Presentation 1	
8	Analysis	Mar 28	Presentation 2	-
		Mar 30	Experiment	-
9	Experiment I	Apr 4	Confounders	Reading Report (Apr 12)
		Apr 13	Experiment Design	
10	Experiment II	Apr 18	Randomized Experiment	-
		Apr 20	Randomized Experiment	-
11	Experiment III	Apr 25	Natural Experiment	-
		Apr 27	Regression	
12	Regression	May 2	Regression	-
		May 4	Review	
14	Final Presentation	May 9	Presentation	-
		May 15	Proposal	

Recommended Textbooks and Readings (Optional)

Ethridge, Don. *Research Methodology in Applied Economics* 2nd edition, Wiley-Blackwell

Babbie, Earl. *The Practice of Social Research*, International Edition 13th edition. Cengage Learning

Greenlaw, Steven. *Doing Economics: A Guide to Understanding and Carrying out Economic Research* Boston, MA: Houghton Mifflin

Babbie, Earl. *The Basics of Social Research* Belmont, CA: Wadsworth Publishing/Thomson Learning

Resources

Reading

- [Reading Guide](#)
- [A Review of the Literature](#)

Writing

- [Structure of Research Proposal](#)
- [How to Write an Effective Research Proposal](#)
- [Manuscript Template](#)
- [Writing Tips For Economics Research Papers](#)

Research sources

- [Introduction to Data Visualization](#)
- [References on Doing Research](#)

Course sources

- [Reading Report — List of Paper \(see in Canvas\)](#)
- [Grading — Anonymous Peer Evaluation Form](#)