



## 2024 國防醫學院公衛系辦理推廣教育 「研究法導論」工作坊(Introduction to research)

授課教師：美國約翰霍普金斯大學石磊玉教授

課程日期：2024年10月11日(週五)至13(週日)  
共三日，18小時

上課地點：10月11日於國防醫學院33教室  
10月12、13日於國防醫學院31教室



授課方式：實體授課

參加對象：對醫務相關領域有興趣者皆可報名，建議具備大學學士或專科以上學歷為原則。**現職具有國防醫學院研究生身份者，請勿以此系統報名，直接由選課系統選課即可。**

教師簡歷：<https://publichealth.jhu.edu/faculty/640/leiyu-shi>

### 教師簡歷



課程特色：依據2024年QS世界大學排名，美國約翰霍普金斯大學公共衛生學院為全世界公衛學院排名第一，對於未來有意願到美國遊學或深造的學員，是難得「紮根」的學習機會；此外，石教授會以中文講述課程，適合所有學員聆聽。

報名表單：<https://forms.gle/z9qkJVKjLeLZtuUh9>

### 報名表單



報名人數：約150人

報名截止：即日起至10月02日(三) 23:59分前或滿額為止

📍 課程費用：

🌟 社會人士收費新臺幣18000元整

🌟 國防醫學院與國軍各醫院等教職員工及具國防醫學院校友身份收費新台幣16000元整

⚠️ 不限身份早鳥優惠新台幣14400元整(9月10日前完成報名且繳費)

報名後經審查通過，會另寄發繳費專戶至您的聯絡信箱內，請於3日內完成繳費，逾期則取消報名並由候補人員遞補

\* 工作坊為實體授課，不開放線上授課，課程不提供餐點，教室禁止飲食

# **INTRODUCTION TO RESEARCH**

*(1 credit)*

**Schedule: October 11 – 13, 2024**

## **COURSE DESCRIPTION**

The objective of this introductory research methods course is to provide a basic introduction of applied scientific research and its major components. Emphasis will be placed on selecting research topic, conceptualizing research, conducting literature review, and designing studies. Students will have the opportunity to develop a health related research project including topic conceptualization, literature review, and basic study design.

## **COURSE FACULTY**

Leiyu Shi, DrPH, MBA, MPA

Professor of Health Policy and Management

Johns Hopkins Bloomberg School of Public Health

Department of Health Policy & Management

Director of Johns Hopkins Primary Care Policy Center

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## **LEARNING OBJECTIVES**

- By the conclusion of this course, students will be able to
  1. Understand the meaning and purpose of research;
  2. Appreciate the process of conducting research;
  2. Develop conceptual framework depicting the research topic;
  3. Conduct literature review pertaining to the research topic;
  4. Design studies to address health problems including identifying study population, sampling method, measurement, and data collection; and
  5. Conceptualize and develop a health related research project.
- Students are expected to demonstrate their mastery of these learning objectives through the completion and presentation of a group project.

## COURSE CONTENTS

TIME	LECTURE & COURSE TOPIC	INSTRUCTOR
<i>Oct. 11, 2024</i>		
9:00 am – 9:30 am	1. Course Overview	Leiyu Shi
9:30 am – 10:00 am	2. Introduction of Research	Leiyu Shi
10:00 am – 11:00 am	3. The Research Process	Leiyu Shi
11:00 am – 12:00 pm	4. Selecting a Research Topic	Leiyu Shi
12:00 pm – 1:00 pm	<b>Group Activity 1.</b> Forming the group and selecting a research topic focusing on health intervention (diabetes, hypertension, stroke, mental health)	TA and Students
1:00 pm – 2:00 pm	<b>Lunch Break</b>	
2:00 pm – 4:00 pm	5. Developing Conceptual Framework	Leiyu Shi
4:00 pm – 5:00 pm	<b>Group Activity 2.</b> Identifying a conceptual framework for your research topic	TA and Students
<i>Oct. 12, 2024</i>		
9:00 am – 10:00 am	6. Searching and Conducting Literature Review	Leiyu Shi
10:00 am – 11:00 am	7. Study Design Part 1: The Experimental Design	Leiyu Shi
11:00 am – 12:30 pm	<b>Group Activity 3.</b> Conducting literature review and specifying the experimental design for your research topic	TA and Students
12:30 pm – 2:00 pm	<b>Lunch Break</b>	
2:00 pm – 4:00 pm	8. Study Design Part 2: Study Population, Sampling, and Measurement	Leiyu Shi

4:00 pm – 5:30 pm	<b>Group Activity 5.</b> Putting together the presentation for your research Required: PPT slides per group including: 1. Title page: Title of research project, group participants' names 2. Study objective and aims; Study significance (figures, references...) 3. Literature review summary: known and gaps 4. Conceptual framework for your study 5. Study design: study population and sampling, type of design, key measures: dependent variables, independent variables, control variables.	TA and Students
<i>Oct. 13, 2024</i>		
9:00 am – 1:00 pm	<b>Student Group Presentation</b> <i>Each group will give a 20-minute presentation and entertain 10-minute Q&amp;A and critique.</i>	Leiyu Shi and Students

## **COURSE CONTENTS**

Lectures, class discussions, in-class activities, active class participations. The course will be taught in Chinese with English slides and materials. Course delivery may be adjusted as needed depending on student background and level of understanding.

## **TEACHING TOOLS**

white board, projector, laptop, Internet access

## **COURSE READING (*recommended but not required*)**

Shi, Leiyu. *Health Services Research Methods*. 3<sup>rd</sup> edition, Boston, MA: CENGAGE, 2019, 431 pages.

## **COURSE REQUIREMENTS**

1. Attend all lectures
2. Actively participate in class discussions and group activities
3. Complete the group project and its presentation

## **COURSE GRADING**

**Attendance 25%:** This includes attendance and in-class participation.

**Participation in Group Activity 35%:** This includes participating and contributing to group discussion and project.

**Group Project: 40%:** Each group will prepare a PPT presentation on its selected research project.