

シラバス (様式)

授業科目名： Method and Application of Data Analysis			担当教員名： Kentaro Hirose
選択/必修： Elective	単位数： 2	セメスター： 1 Fall	開講言語： English
ディプロマポリシーとの関連			
国際社会の知識	政策分析能力	英語コミュニケーション能力	
	●	●	
○授業の到達目標及びテーマ To learn how to think scientifically through data analysis.			
○授業の概要 Data analysis is becoming increasingly important in various disciplines. In this course, students will learn how to think scientifically through data analysis. To motivate students, the course will introduce a lot of real examples of data analysis conducted in political science, especially international relations. We will use R, one of the most widely used statistical packages, throughout the course. [IMPORTANT] Please send an email to me (khirose@unii.ac.jp) a few days (at the latest a day) before the first class if you are planning to take this course. If I do not receive an email from you, I will assume that you will not take this course. If you did not participate in the first class but want to take this course during the changing registration period, please send me an email in advance.			
○授業の方法 Students will do data analysis in class or as homework after each lecture.			
○授業計画			
1. Introduction			
2. Examples of Data Analysis			
3. Basics of Causal Inference			
4-5. Basics of R Programming			
6-7. Linear Models			
8-9. Statistical Uncertainty			
10-11. Logit Models			
12-13. Panel Data			
14. How to Make a Good Presentation			

15. Student Presentations

○テキスト

Slides will be posted online.

○参考書・参考資料等

For causal inference:

— Gary King, Robert O. Keohane, and Sidney Verba, *Designing Social Inquiry*.

For data analysis with R:

— Kosuke Imai, *Quantitative Social Science: An Introduction*.

For regression models:

— Jeffrey M. Wooldridge, *Introductory Econometrics*.

○学生に対する評価

Homework (80%)

Presentation (20%)

○オンライン授業に切り替えた場合の授業形態

Class format : Online class (Real-time delivery)

Location of class materials, notices, and correspondence information: manaba folio