

# ECON6120Q

## Topics in Economic Design

Department of Economics, HKUST

### Overview

This is a seminar-style course dedicated to *economic design*, an area of research that has been actively generating important results that matter not only to economic theory but also to a wide range of applications. In addition to introducing the students to various topics of economic design, the course is also meant to be an opportunity for the student to hone their research skills. By completing the course, the students will have some training in reading and discussing academic papers, making presentations, finding research ideas, and developing ideas into viable projects.

### Prerequisites

The students are expected to be familiar with game theory and have some basic understanding of mechanism design. Completion of the first-year PhD microeconomics sequence is sufficient.

### Grading

Participation 30%

Presentation 30%

Project 40%

### References

Some useful books for reference include:

1. *An Introduction to the Theory of Mechanism Design*, by Tilman Börgers.
2. *Auction Theory*, by Vijay Krishna.
3. *Putting Auction Theory to Work*, by Paul Milgrom.

4. *Two-Sided Matching*, by Alvin Roth and Marilda Sotomayor.
5. *Who Gets What, and Why*, by Alvin Roth (a non-technical, general interest introduction to matching market design).
6. *Market Microstructure Theory*, by Maureen O'Hara.