課綱 What's in this course?
時程 Weekly schedule
評分 What is the grading policy?
網頁 Website for this course
課本 Textbook
幫助 Where to find help?

SYLLABUS

- Fundamentals
    - random experiment, sample space, probability model
    - discrete random variables
    - continuous random variables

- Advanced
    - further topics on random variables
    - Bernoulli processes and Poisson processes
    - Markov processes

TIMELINE

W01 Introduction

W02

⋮ Fundamentals

W08

W09 Midterm

W10

⋮ Advanced

W014

W15 Final exam

W16 Final session

課堂 participation

小考 quiz

期中 midterm

期末 final

SPECIAL NOTES

1. No make-up for absence from exams. With proper reasons for absence, the score is class average weighted by absentee's standing. It is to your benefit to take exams.

2. Sessions cancelled due to flexible holidays will be held in the corresponding special working days.

3. This course will be instructed in English if it is jointly offered as an EMI course.

WWW

- who's who
- books
- announcements
- slides
- exams

Bertsekas and Tsitsiklis, *Introduction to Probability*

得 Get it (purchase or download)

讀 Read it

用 Work it

讚 Like it

存 Keep it

群組 LINE

助教 TAs

課輔 tutor

同學 classmates

學長 juniors and seniors

線上 online tutorials/videos (Google MIT probability)

橋 (**Bridge**) What is the probability that trump King is offside with 11-card trump suit? 10-card trump suit?

旅 (**Busan**) Socks are drawn one by one from a backpack containing 5 different pairs of socks.

- What is the expected number of socks drawn until the first drawn sock is matched?
- What is the expected number of socks drawn until any drawn sock is matched?

彩 (**Bets**) What is the probability of large margin (say ≥ 3) for a soccer game?

- every additional goal is won by either side equally likely
- other assumptions
- no assumption