

# Intro and Admin

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Mathematics and Informatics Pre-session for Business Analytics

2023

## About the course

- ▶ Instructor: Olivér Kiss
- ▶ E-mail: [kiss\\_oliver@phd.ceu.edu](mailto:kiss_oliver@phd.ceu.edu)
- ▶ Office hours: drop an e-mail and we schedule one
- ▶ Schedule: <http://schedules.ceuecon.org>
- ▶ Course materials: <https://github.com/kiss-oliver/ba-pre-session-2023/>
- ▶ Exam: Pass/Fail, take home, 72h to complete. Minimum pass: 20/30 in maths + all IT tasks completed correctly.

# Books

You should focus on the slides I provide, but you can consult the following books/resources for more details if needed:

- ▶ Knut Sydsaeter and Peter J. Hammond - Mathematics for Economic Analysis
- ▶ Dirk P. Kroese - A Short Introduction to Probability
- ▶ Michael Freeman and Joel Ross - Technical Foundations of Informatics
- ▶ Scott Chacon and Ben Straub - Pro Git

# Topics

- ▶ Functions
- ▶ Calculus (graphical intro only)
- ▶ Linear algebra
- ▶ Probability theory
- ▶ Command line (bash)
- ▶ Version control with Git and collaboration on GitHub
- ▶ Getting started with Python

# Rules

- ▶ Questions welcome
- ▶ You may be familiar with certain parts of the material already
  - ▶ Feel free to leave anytime
  - ▶ If you decide to stay, be respectful to others
- ▶ Everything covered here will be assumed to be common knowledge during other courses

## GPT == &lt;3

- ▶ Large language models are great, and you should absolutely use them. BUT!
- ▶ Your submission, your responsibility.
- ▶ While you don't really have to come up with new ideas/write essays during this course, in general, always cite it just like other digital resources.
- ▶ If you use it to generate code, make sure that you make it obvious (with comments) which sections are generated by LLMs.