

CO327 Deterministic OR Models (2021-Spring)

About scribing and L^AT_EX

Instructor: Andersen Ang

Combinatorics and Optimization, U.Waterloo, Canada

ms $\textcolor{red}{x}$ ang@uwaterloo.ca, where $\textcolor{red}{x} = \lfloor \pi \rfloor$

Homepage: angms.science

First draft: March 20, 2021 Last update: June 30, 2022

Scribing (10% course grade)

- ▶ What is scribing: taking careful notes during class and write them up.
- ▶ Usually in advanced course (postgrad level+), the original idea of scribing is to prepare notes for the course that do not have a good textbook.
- ▶ CO327 is very fundamental, then why scribing: a form of training on making academic material.
- ▶ What to scribe: The LP economic model of production and manufacture


How to scribe

- ▶ Take notes during class.
- ▶ Prepare your notes in \LaTeX , written in complete sentences that would be *understandable by a student who might have missed class*, **not merely a transcription of the notes that you jotted down during class.**
- ▶ Learn how to “select information”:
 - ▶ Do not put down administrative info (such as due dates for assignment) or my stupid jokes (if any) in your scribe notes.
 - ▶ Hide details that are less important.
 - ▶ Identify what is “important” or what is “difficult to understand”, and then elaborate by including figure, example, tables (if appropriate) for better explanation.
- ▶ Installing \LaTeX is not required: you can use Overleaf.
- ▶ Contact me if you have question(s).

How your scribe notes will be graded

- ▶ Grade points: 0 - 10.
Base point = 1 if you scribe.
Scale to 100 finally.
- ▶ Three grading criteria with 1-3 points: 1 poor, 2 average, 3 good.
 - ▶ Academic correctness: anything wrong in the notes?
 - 3: no error, showing the scribe has mastered the content.
 - 2: a few errors, showing the scribe does understand the content.
 - 1: many errors, showing the scribe doesn't understand the content.
 - ▶ Organization: how well is the notes organized
 - 3: good logical flow, easy to understand
 - 2: have some structure but incomplete
 - 1: just simply a collection of equations and theories, no organization
 - ▶ Language: Use of English
 - 3: looks like a textbook
 - 2: imperfect writing style but ok
 - 1: incorrect style and unreadable

Writing tool: \LaTeX

- ▶ What is \LaTeX : <https://en.wikipedia.org/wiki/LaTeX>
- ▶ Why \LaTeX but not Microsoft Words: google it yourself.
- ▶ How to \LaTeX
 - ▶ Install it into your machine
How: google it yourself.
 - ▶ Use cloud-based editor: Overleaf 
<https://www.overleaf.com/>
- ▶ What's next: Demo: overleaf and Simple short notes on Interior Point Method.

Summary

- ▶ What you need to do
 - ▶ Produce a up-to 3 pages own notes
 - ▶ The notes have to be generated by \LaTeX
 - ▶ Deadline 2022-July-31
 - ▶ Submission: Dropbox in Waterloo Learn
- ▶ Topic: LP economic model of production and manufacture industry, based on the material
 - ▶ Lecture on July 6 and
 - ▶ https://angms.science/doc/teaching/C0327/7app_optimal_control.pdf
- ▶ My \LaTeX sample codes for your reference
 - ▶ Simple: <https://angms.science/doc/teaching/C0327/norms.7z>
 - ▶ Advanced: <https://angms.science/doc/teaching/C0327/LaTeXExample.7z>

END