

Department of Computer Science and Information Engineering  
National Taiwan Normal University

# Numerical Methods

Fall 2021

Mei-Chen Yeh

2021/09/24

# Basic information

- Instructor

Mei-Chen Yeh 葉梅珍 ([myeh@csie.ntnu.edu.tw](mailto:myeh@csie.ntnu.edu.tw))

Office hours: by appointment, CSIE 504

- Meeting time and location

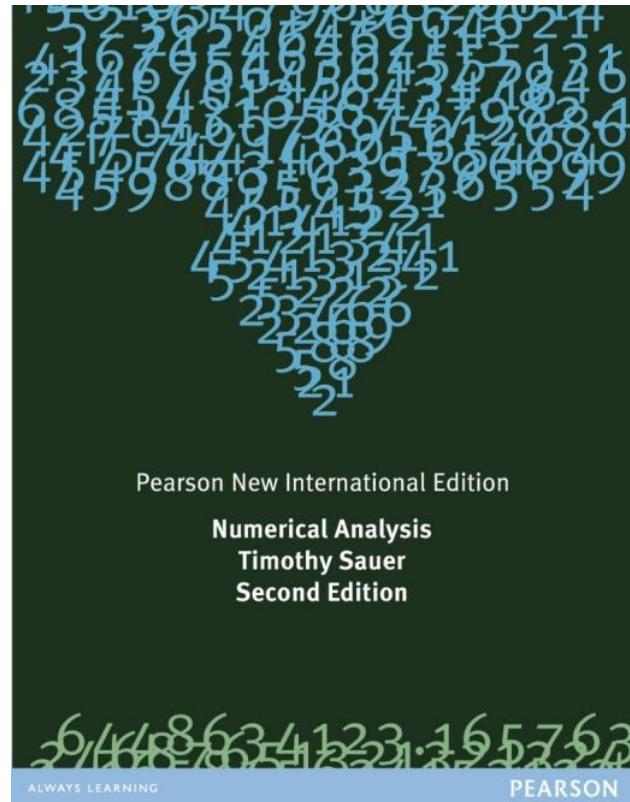
Fri. 14:20-17:10 (w/ 10-mins breaks) at ~~理圖~~ 802 online

- Course materials on moodle

- Announcements
- Slides
- Homework assignments

# Basic information (cont'd)

- Reference book
  - T. Sauer. *Numerical Analysis: Pearson New International Edition*. Pearson, 2013.
- TA
  - 張心瑜



# Schedule

Week	Date	Topic
1	09/24	Introduction Solving equations Solving systems of equations
2	10/01	
3	10/08	
4	10/15	
5	10/22	
6	10/29	
7	11/05	
8	<b>11/12</b>	<b>Midterm</b>
9	11/19	Interpolation Least squares QR factorization Nonlinear least squares
10	11/26	
11	12/03	
12	<b>12/10</b>	
13	12/17	
14	12/24	<b>12/10, 12/31 no class</b>
15	<b>12/31</b>	
16	<b>01/07</b>	<b>Final exam</b>

# What will you learn/review in this course?

- Algorithms (computational methods) for solving mathematical problems
- Linear Algebra

# Grading

- Participation + homework 50%
  - 出席且於課堂(5pm)完成作業 100
  - 出席且於當日完成作業 90
  - 出席且於三天內完成作業 80
  - 出席但未於三天內完成作業 40
  - 未出席但於三天內完成作業 40
  - 未出席且未於三天內完成作業 0
- Midterm 25%
- Final exam 25%

Firm! 不調分  
勿討價還價

# Need an enrollment code?

- 請填表單 (9/26 23:59 截止登記)

<https://forms.gle/d1xFwWQ2USGLkK7QA>

- 以**資工系大學部高年級**學生優先，不得重修，同年級人數超過時抽籤決定，結果以Email通知。

# Policy (1)

Taking any unfair advantages over other class members is **not allowed**.



**No Cheating!**

考試不作弊

作業(練習)可討論但不抄襲

# Policy (2)

Taking any unfair advantages over other class members is **not allowed**.



國立臺灣師範大學資訊中心電腦教室使用規範

## 三、嚴禁事項

1. 不得攜帶食物、飲料(非瓶裝礦泉水)入內。
2. 不得在教室安裝與教學無關之軟體。
3. 不得在教室瀏覽色情圖片、影片或網站。
4. 不得在教室內玩電腦遊戲。
5. 不得使用 P2P、PPS...等類型軟體。
6. 不得擅自拔除電源線、網路線、滑鼠等配備。
7. 不得未經向服務臺報備，攜行動裝置私接電源。

# Policy (3)

Taking any unfair advantages over other class members is **not allowed**.



**No pirated copies of  
hard copy books**  
請尊重智慧財產權

Questions?