Department of Computer Science and Information Engineering
National Taiwan Normal University

Numerical Methods
Fall 2023

Mei-Chen Yeh

2023/09/08

Basic information

- Instructor

  Mei-Chen Yeh 葉梅珍 (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

- Course materials on moodle
  - Announcements
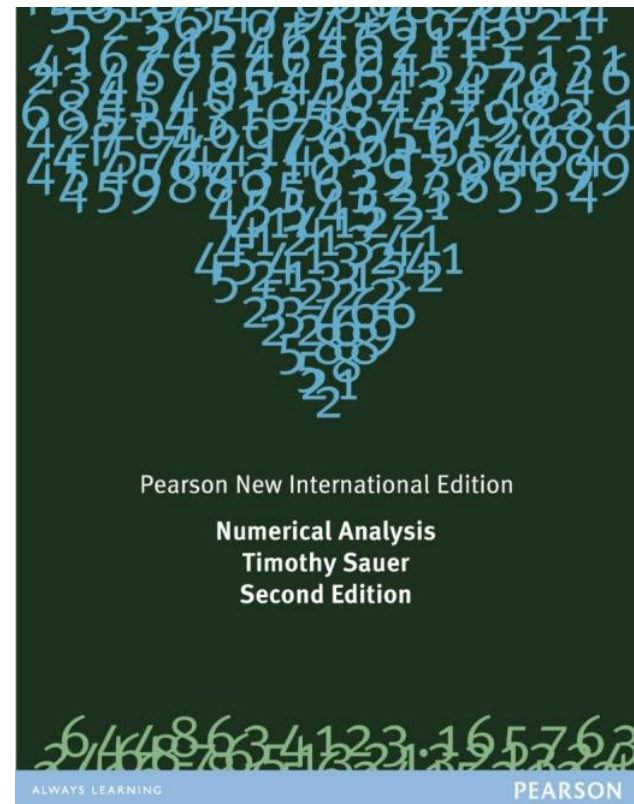 - Slides
  - Homework assignments

Basic information (cont'd)

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

- TA
  - 鄭淮薰

Pearson New International Edition

Numerical Analysis
Timothy Sauer
Second Edition

ALWAYS LEARNING   PEARSON

Schedule

Week	Date	Topic
1	09/08	Introduction Solving equations Solving systems of equations **09/29 no class (moon festival)**
2	09/15	
3	09/22	
4	**09/29**	
5	10/06	
6	10/13	
7	10/20	
8	**10/27**	**Midterm**
9	11/03	Interpolation
10	**11/10**	**No class (University sports day)**
11	11/17	Least squares QR factorization Nonlinear least squares Gradient descent
12	11/24	
13	12/01	
14	12/08	
15	12/15	
16	**12/22**	**Final exam**

What will you learn/review/polish in this course?

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

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

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

不得攜帶食物、飲料(非瓶裝礦泉水)入內。
不得在教室安裝與教學無關之軟體。
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?