Introduction to **Algorithms**

Mong-Jen Kao (高孟駿)

Tuesday 10:10 – 12:00

Thursday 15:30 – 16:20

About this Course

Course Website:

https://sites.google.com/nycu.edu.tw/113-1-intro-2-algo/

- This ***undergraduate course*** is designed to provide an introduction on the design and analysis of ***computer algorithms*** with ***hands-on implementations*** for standard textbook computation problems.

  - A fair level of understandings on *C/C++ Programming, Data Structures* and *Probability* is expected.

Course Material

■ The course material is mainly selected from the following textbook.

  – Cormen, Leiserson, Rivest and Stein,

   "Introduction to Algorithms", 4th ed, 2022, MIT press.

Course Evaluation

- The course evaluation consists of 2 parts.

  - (40%).

    - Program Assignments in C/C++

    - Handwritten Exercises

  - (60%). Midterm & Final Exams

    - Both come with a closed-book handwritten exam and a hands-on programming exam

Endorse / Audit Policy

- In general, I will sign the endorsement form.

  - However, I <u>will not</u> sign the withdrawal form.

- All the course material will be available on our course website.

  - Hence, you can proceed without my admission
    if you plan to audit this course.

How to Do Well in this Course

■ Read the course material.
Make sure that you fully-understand, with concrete imaginations in mind, the definitions, the steps of each algorithm and the analysis.

 – When you explain to your little brother/sisters, he/she can understand how the algorithms work and why they work.

■ Spend time and Do the homework yourself.