

UEE2305

DATA STRUCTURES

Mango Chao

Fall 2020

Administrative Matters (1/2)

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- **Time/Location:** Wednesday CD@ED219, Friday E@ED220
- **Instructor:** Mango Chia-Tso Chao (趙家佐)
- **Email:** mango@faculty.nctu.edu.tw
- **Office:** ED601, TEL: ext. 31671
- **Office Hours:** Tuesdays CD@ED601 (made by appointment)
- **Prerequisite:** Computer programming (C/C++)
- **Required Text:**
 - ▣ E. Horowitz, S. Sahni, and D. P. Mehta, Fundamentals of Data Structures in C++, 2nd Ed., Silicon Press, 2007
- **Class website**
 - ▣ <http://140.113.238.4/course/DS2020/index.htm>
- **Online Resources:**
 - ▣ Download lecture notes from E3 or class website
 - ▣ Lecture notes and assignments will also be posted on class website

Administrative Matters (2/2)

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□ Teaching Assistants:

- ▣ **Lab:** ED612, **TEL:** ext. 54178
- ▣ Mitchell Lee (李嘉運) sam403nivek@gmail.com
- ▣ Jacky Chen (陳柏諺) chentt13@gmail.com
- ▣ Gryffin Yeh (葉季佑) ee1327.ee08g@nctu.edu.tw
- ▣ No fixed office hours
- ▣ Made by appointment

Course Objectives and Contents

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□ Objectives:

- ▣ Study how to represent data, how to manipulate them, how to analyze the efficiencies
- ▣ Have fun!

□ Contents:

- ▣ Basic concepts: C++ and algorithms
- ▣ Arrays
- ▣ Stacks and queues
- ▣ Linked lists
- ▣ Trees
- ▣ Graphs
- ▣ Internal sorting
- ▣ Hashing
- ▣ Selected advanced topics

Grading & Schedule

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□ Grading

- ▣ Programming assignments: 40%
- ▣ Two exams (Midterm: 30% + Final: 30%)
- ▣ Attendance doesn't matter

□ Schedule

- ▣ Dates for midterm and final are listed on the website
- ▣ Don't ask for a make-up exam. You are not going to get one.

Programming Assignments

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- ❑ Discussions are encouraged, but plagiarism is not allowed.
- ❑ Copying someone else's homework/test or part of a homework/test is cheating.
- ❑ A **honor code** on the class website must be signed and return before starting doing programming assignment; otherwise you will not receive any score.
- ❑ Your programs must be written in C++ and able to be compiled on Linux environment.
- ❑ You will receive an account of our department's servers, so you can login and do your coding on a Linux environment.
- ❑ Score will be given based on the ranking of the program's performance among all submitted programs.
- ❑ Late submission is acceptable, but only within a week after deadline.
- ❑ Score of any late submission will be 70% of the original one.