

DEE2505

DATA STRUCTURES

Mango Chao

Fall 2019

Administrative Matters (1/2)

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- **Time/Location:** Tuesday EF@ED219, Friday E@ED116
- **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/DS2019/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
 - Vincent Chang (張碩文) vincent19960524@gmail.com
 - Rose Chen (陳玥融) rosechen30932@gmail.com
 - 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.