

# Data Structures (CS 206C)

**Lecturer:** Otfried Cheong

**Lecture time:** Tue, Thu 10:30–11:45

**Course webpage:**

<http://otfried.org/courses/cs206python>

## Piazza

You must regularly check the announcements on Piazza (see webpage). If you register there, they will be emailed to you automatically.

We will use Piazza for answering all your questions about the course contents. You can ask questions anonymously. You can ask questions in English or Korean.

This course is for non-major students.

We decided to create it only a few weeks ago, when the two other sections were overflowing and we discovered there were many more non-major students than in previous years.

I'm already teaching two other courses (including CS206A), so I didn't have much time to prepare this course. . .

Don't expect a perfect course. . .

I will probably get confused a few times between CS206A and CS206C. . .

From a previous course evaluation:

도대체 왜 Piazza를 사용하는겁니까? KLMS를 사용하면 좀 더 접근성이 있고,

- Nice Wiki format, where users can work together to answer a question. Student answer / instructor answer.
- Notifications and smartphone app let me answer questions very quickly.
- Students can ask questions anonymously.
- I'm teaching three courses this semester, and I work with Piazza much more efficiently.

**Homework**

Graded programming projects (1 – 2 weeks time),  
Ungraded practice exercises (some reviewed in class)

**Homework requirement**

You must submit **all** programming projects.

**Participation**

We will take attendance in every class. You have four missed classes free—use this for doctor appointments, interviews, etc. You do not need to send me email about missing a class.

**Grading Policy**

Programming projects (20%), Midterm exam (30%), Final exam (40%), Participation (10%).

Understand what an abstract data type is, and distinguish it from its implementation.

Improving your programming skills!

Know about standard data structures and can use them in your own programs.

Understand how to standard data structures are implemented efficiently.

Learn how to recognize elegant code that feels right.

We use the book

**Data Structures and Algorithms using Python**  
by Rance D. Necaise.

Rance D. Necaise



DATA STRUCTURES AND  
ALGORITHMS USING PYTHON



We will follow the book pretty closely.

35,000 Won in campus bookstore.

... but there is a **seven-page** erratum (see link on webpage).

- Abstract data types (ADT)
- Linked data structures
- Recursion
- Basics of algorithm analysis
- Standard ADT: Lists, stacks, queues, maps
- Applications of stacks, queues, and maps
- Implementation of data structures using lists, trees and hash tables

