

COURSE DETAIL

DATA STRUCTURE

Country

China

Host Institution

Fudan University

Program(s)

Fudan University

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Computer Science

UCEAP Course Number

127

UCEAP Course Suffix**UCEAP Official Title**

DATA STRUCTURE

UCEAP Transcript Title

DATA STRUCTURE

UCEAP Quarter Units

3.00

UCEAP Semester Units

2.00

Course Description

This course examines common data structures and their implementation, including stack, queue, string, binary tree, tree and graph; common retrieval, indexing and sorting methods, including linear table, hash table, inverted file, B-tree and other common retrieval and indexing technologies, insertion sorting, shell sorting, heap sorting, quick sorting, cardinal sorting and other common sorting algorithms and their time and space overhead; common algorithms and their implementation, including divide and conquer, recursion, backtracking, greedy method.

Language(s) of Instruction

Chinese

Host Institution Course Number

INFO130327

Host Institution Course Title

DATA STRUCTURE

Host Institution Campus

Host Institution Faculty

Xu Yuedong

Host Institution Degree

Host Institution Department

Information Science

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