

COURSE DETAIL

DATA STRUCTURES AND ALGORITHMS

Country

Singapore

Host Institution

National University of Singapore

Program(s)

National University of Singapore

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Computer Science

UCEAP Course Number

123

UCEAP Course Suffix**UCEAP Official Title**

DATA STRUCTURES AND ALGORITHMS

UCEAP Transcript Title

DATA STRUCTURES

UCEAP Quarter Units

6.00

UCEAP Semester Units

4.00

Course Description

This course introduces the design and implementation of fundamental data structures and algorithms. Topics include basic data structures (linked lists, stacks, queues, hash tables, binary heaps, trees, and graphs), searching and sorting algorithms, basic analysis of algorithms, and basic object-oriented programming concepts. The course requires students to take prerequisites.

Language(s) of Instruction

English

Host Institution Course Number

CS2040C

Host Institution Course Title

DATA STRUCTURES AND ALGORITHMS

Host Institution Course Details

<https://nusmods.com/courses/CS2040C/data-structures-and-algorithms>

Host Institution Campus

Host Institution Faculty

Host Institution Degree

Host Institution Department

Computer Science

Course Last Reviewed

2024-2025

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