

# COURSE DETAIL

## ALGORITHM ANALYSIS AND DESIGN

**Country**

China

**Host Institution**

Fudan University

**Program(s)**

Fudan University

**UCEAP Course Level**

Upper Division

**UCEAP Subject Area(s)**

Computer Science

**UCEAP Course Number**

157

**UCEAP Course Suffix****UCEAP Official Title**

ALGORITHM ANALYSIS AND DESIGN

**UCEAP Transcript Title**

ALGORTH ANALYS&DES

**UCEAP Quarter Units**

4.50

**UCEAP Semester Units**

3.00

## Course Description

This course examines the method and process of problem analysis and mathematical model establishment; the algorithm design strategy and its key points--recursion, brute force, divide and conquer, greed, dynamic programming, backtracking and branch and bound, random, approximation, etc.; and the expression of algorithm complexity and the basic method of complexity analysis.

## Language(s) of Instruction

Chinese

## Host Institution Course Number

INFO130057

## Host Institution Course Title

ALGORITHM ANALYSIS AND DESIGN

## Host Institution Campus

## Host Institution Faculty

NI Weiming

## Host Institution Degree

## Host Institution Department

Information Science and Technology

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