# COURSE DETAIL

| ALGORITHM ANALYSIS |
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| **Country**<br>Korea, South |
| **Host Institution**<br>Yonsei University |
| **Program(s)**<br>Yonsei University |
| **UCEAP Course Level**<br>Upper Division |
| **UCEAP Subject Area(s)**<br>Computer Science |
| **UCEAP Course Number**<br>110 |
| **UCEAP Course Suffix** |
| **UCEAP Official Title**<br>ALGORITHM ANALYSIS |
| **UCEAP Transcript Title**<br>ALGORITHM ANALYSIS |
| **UCEAP Quarter Units**<br>4.50 |
| **UCEAP Semester Units**<br>3.00 |

**Course Description**
An algorithm is a well-defined mechanical procedure that solves a computational problem (Cormen et al., 1990). This course introduces students to elementary algorithm design techniques including divide and conquer, dynamic programming, greedy algorithms, and network flow, together with the mathematical proof techniques used to establish the correctness of algorithms. The course also covers NP-completeness. Textbook: J. Kleinberg and E. Tardos, ALGORITHM DESIGN. Prerequisites: Data Structure, DISCRETE MATHEMATICS

**Language(s) of Instruction**
English

**Host Institution Course Number**
CSI3108

**Host Institution Course Title**
ALGORITHM ANALYSIS

**Host Institution Campus**

**Host Institution Faculty**

**Host Institution Degree**

**Host Institution Department**
Computer Science

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