# COURSE DETAIL

## ALGORITHM DESIGN

**Country**
Australia

**Host Institution**
University of Sydney

**Program(s)**
University of Sydney

**UCEAP Course Level**
Upper Division

**UCEAP Subject Area(s)**
Computer Science

**UCEAP Course Number**
127

**UCEAP Course Suffix**

**UCEAP Official Title**
ALGORITHM DESIGN

**UCEAP Transcript Title**
ALGORITHM DESIGN

**UCEAP Quarter Units**
6.00

**UCEAP Semester Units**
4.00

**Course Description**

This course provides an introduction to the design techniques that are used to find efficient algorithmic solutions for given problems. The techniques covered include greedy, divide-and-conquer, dynamic programming, and adjusting flows in networks. The course extends skills in algorithm analysis as well as provides an introduction to the concepts of computational complexity and reductions between problems.

**Language(s) of Instruction**

English

**Host Institution Course Number**

COMP3027

**Host Institution Course Title**

ALGORITHM DESIGN

**Host Institution Campus**

**Host Institution Faculty**

**Host Institution Degree**

**Host Institution Department**

Computer Science

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