

## COURSE DETAIL

### NATURAL LANGUAGE PROCESSING

**Country**

China

**Host Institution**

Tsinghua University

**Program(s)**

Tsinghua University

**UCEAP Course Level**

Upper Division

**UCEAP Subject Area(s)**

Computer Science

**UCEAP Course Number**

163

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

NATURAL LANGUAGE PROCESSING

**UCEAP Transcript Title**

NATURAL LANG PROCES

**UCEAP Quarter Units**

4.50

**UCEAP Semester Units**

3.00

## Course Description

Natural language Processing (NLP) is one of the most important technologies in Artificial Intelligence. NLP aims at enabling computers to understand human languages and communicate with humans. There are a large variety of tasks and machine learning methods in NLP. The course provides a thorough introduction to NLP, from its history to recent advances in deep learning applied to NLP. On the task side, we will cover sequence tagging, parsing, classification and clustering, and some applications such as machine translation. On the model side, we will cover statistical models and neural networks. By learning from lectures and programming assignments, students will master necessary knowledge about NLP and engineering tricks for practical NLP problem.

### Language(s) of Instruction

English

### Host Institution Course Number

80240763

### Host Institution Course Title

NATURAL LANGUAGE PROCESSING

### Host Institution Campus

### Host Institution Faculty

### Host Institution Degree

### Host Institution Department

Department of Computer Science and Technology

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