

## COURSE DETAIL

### WELDING TECHNOLOGY I: WELDING AND CUTTING TECHNOLOGIES

**Country**

China

**Host Institution**

Tsinghua University

**Program(s)**

Tsinghua University

**UCEAP Course Level**

Upper Division

**UCEAP Subject Area(s)**

Mechanical Engineering

**UCEAP Course Number**

145

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

WELDING TECHNOLOGY I: WELDING AND CUTTING TECHNOLOGIES

**UCEAP Transcript Title**

WELDING TECH I

**UCEAP Quarter Units**

4.50

**UCEAP Semester Units**

3.00

## Course Description

This course focuses on the principles and applications of welding and cutting technology, as well as the latest developments and application status of this technology at home and abroad. It aims to enable students to not only master the basic knowledge of modern welding and cutting and related technologies, but also understand the forefront of discipline development, grasp the development trend of the discipline, broaden their horizons, and activate academic thinking, so as to improve the ability of graduate students to carry out innovative research. The main contents include: introduction to different welding methods such as gas welding, arc welding, resistance welding, pressure welding, high-energy beam welding, as well as cutting methods, welding automation, welding sensors, welding forming methods, etc., focusing on their latest developments and applications.

### Language(s) of Instruction

English

### Host Institution Course Number

80120253

### Host Institution Course Title

WELDING TECHNOLOGY I: WELDING AND CUTTING TECHNOLOGIES

### Host Institution Campus

### Host Institution Faculty

### Host Institution Degree

### Host Institution Department

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