COURSE DETAIL

INSTRUMENTATION	
Country China	
Host Institution Fudan University	
Program(s) Fudan University	
UCEAP Course Level Upper Division	
UCEAP Subject Area(s) Environmental Studies	
UCEAP Course Number 171	
UCEAP Course Suffix	
UCEAP Official Title INSTRUMENTATION	
UCEAP Transcript Title INSTRUMENTATION	
UCEAP Quarter Units 3.00	
UCEAP Semester Units 2.00	

Course Description

Course Objective

- 1. Have a basic understanding of quantitative instrumental analysis that involves electromagnetic radiation, spectroscopy, mass spectrometry, electrochemistry, and chromatography.
- 2. Be familiar with modern methods for the analyses of chemical substances in a variety of matrices, and the interpretation of data obtained from such analyses.
- 3. Be able to do calculations associated with the quantitative instrumental analyses.
- 4. Be able to draw conclusions based on analyses and calculations.

Instrumentation course will introduce the basis of electromagnetic radiation, Mass Spectra as well as chromatography. Students in this course will understand the theories, methodology, and structure of the related instruments.

This course will use "Principles of Instrumental Analysis" as the major reference book, combined with knowledge of up to date modern instruments (from department lab as well as the newest literature). Student will have the elemental capability to solve practical problems by using various instruments.

Language(s) of Instruction

English

Host Institution Course Number

ENVI130071

Host Institution Course Title

INSTRUMENTATION

Host Institution Campus

Host Institution Faculty

Host Institution Degree

Host Institution Department

Environmental Science and Engineering

<u>Print</u>