

## COURSE DETAIL

### AIR QUALITY IN CHANGING ENVIRONMENTS

**Country**

Singapore

**Host Institution**

National University of Singapore

**Program(s)**

National University of Singapore

**UCEAP Course Level**

Upper Division

**UCEAP Subject Area(s)**

Environmental Studies Civil Engineering

**UCEAP Course Number**

129

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

AIR QUALITY IN CHANGING ENVIRONMENTS

**UCEAP Transcript Title**

AIR QUALITY

**UCEAP Quarter Units**

6.00

**UCEAP Semester Units**

4.00

## Course Description

This course provides fundamental knowledge of dynamic atmospheric air quality in a changing world. The topics cover the effects of emission sources and pollutants, air quality assessment, atmospheric reactions of air pollutants, principles and implications of vertical mixing and transport of airborne pollutants, and air pollution control strategies and devices. This enables students to understand dynamic atmospheric processes and to identify air pollution issues associated with varied energy sources and economic development. Students also learn to assess air quality, quantify air pollutant levels, devise control strategies and recommend engineering solutions to enhance air quality.

### Language(s) of Instruction

English

### Host Institution Course Number

ESE3201

### Host Institution Course Title

AIR QUALITY IN CHANGING ENVIRONMENTS

### Host Institution Campus

### Host Institution Faculty

### Host Institution Degree

### Host Institution Department

Civil and Environmental Engineering

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