

# COURSE DETAIL

## ENVIRONMENTAL CHEMISTRY AND SUSTAINABILITY

**Country**

Australia

**Host Institution**

University of New South Wales

**Program(s)**

University of New South Wales

**UCEAP Course Level**

Upper Division

**UCEAP Subject Area(s)**

Chemistry

**UCEAP Course Number**

116

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

ENVIRONMENTAL CHEMISTRY AND SUSTAINABILITY

**UCEAP Transcript Title**

ENV CHEM & SUSTAIN

**UCEAP Quarter Units**

6.00

**UCEAP Semester Units**

4.00

## **Course Description**

This course examines the main environmental and sustainability issues experienced by our society through the lens of a chemist. Students will discover how fundamental chemistry principles can explain the rise of many of these issues but also provide solutions to address them. It answers questions such as: how do human activities affect the quality of water leading to social justice issues? What is the effect of air pollution on our atmosphere and cities? Are solar panels or cloth nappies sustainability-conscious choices? Is plastic recycling worth it? Fundamental scientific concepts that we will explore include but are not limited to the greenhouse gas effect, how solar panels and other renewable energy devices work at the molecular level, the chemistry of waste and contaminants found in water, soil, and the atmosphere.

### **Language(s) of Instruction**

English

### **Host Institution Course Number**

CHEM2901

### **Host Institution Course Title**

ENVIRONMENTAL CHEMISTRY AND SUSTAINABILITY

### **Host Institution Course Details**

#### **Host Institution Campus**

#### **Host Institution Faculty**

#### **Host Institution Degree**

#### **Host Institution Department**

#### **Course Last Reviewed**

2024-2025

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