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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