

# CIVL 2002 ENVIRONMENTAL ENGINEERING

**Credit Points** 10

**Legacy Code** 300737

**Coordinator** Mariam Darestani (<https://directory.westernsydney.edu.au/search/name/Mariam Darestani/>)

**Description** This subject teaches the fundamental theory and methods required for a civil engineer to solve environmental issues they would face in their professional life.

**School** Eng, Design & Built Env

**Discipline** Civil Engineering

**Student Contribution Band** HECS Band 2 10cp

Check your HECS Band contribution amount via the Fees ([https://www.westernsydney.edu.au/currentstudents/current\\_students/fees/](https://www.westernsydney.edu.au/currentstudents/current_students/fees/)) page.

**Level** Undergraduate Level 2 subject

**Equivalent Subjects** CIVL 4006 - Environmental Engineering

## Learning Outcomes

On successful completion of this subject, students should be able to:

1. Apply basic principles of ecology and environmental processes to achieve sustainable water quantity and quality management;
2. Apply appropriate drinking water and wastewater treatment techniques;
3. Examine basic air and noise pollution control techniques;
4. Apply solid and hazardous waste management techniques in urban and rural environments;
5. Explain climate change issues and its implication to civil and environmental engineering projects;
6. Apply environmental impact assessment and life cycle assessment methods for simple civil and environmental engineering problems.
7. Explain legislative requirements and ethical issues related to civil and environmental engineering projects.

## Subject Content

1. General principal of ecologically sustainable development , Climate change and Environmental issues
2. Drinking water treatment
3. Wastewater treatment
4. Water quality management
5. Solid and hazardous waste collection and disposal
6. Environmental impact assessment and life cycle assessment
7. Air and noise pollution
8. Climate change issues related to civil and environmental engineering
9. Water chemistry
10. Emerging water and water treatment and desalination technologies

## Assessment

The following table summarises the standard assessment tasks for this subject. Please note this is a guide only. Assessment tasks are regularly updated, where there is a difference your Learning Guide takes precedence.

Type	Length	Percent	Threshold	Individual/Group Task
Quiz	30 minutes	15	N	Individual
Quiz	30 minutes	15	N	Individual
Quiz	30 minutes	15	N	Individual
Applied Project	2 hours	30	N	Group
Reflection	500 words	15	N	Individual
Report	1,000 words	10	N	Individual

Teaching Periods

## Sydney City Campus - Term 1 (2022)

### Sydney City

#### Day

**Subject Contact** Ankit Agarwal (<https://directory.westernsydney.edu.au/search/name/Ankit Agarwal/>)

View timetable ([https://classregistration.westernsydney.edu.au/even/timetable/?subject\\_code=CIVL2002\\_22-SC1\\_SC\\_D#subjects](https://classregistration.westernsydney.edu.au/even/timetable/?subject_code=CIVL2002_22-SC1_SC_D#subjects))

## Spring (2022)

### Penrith (Kingswood)

#### Day

**Subject Contact** Mariam Darestani (<https://directory.westernsydney.edu.au/search/name/Mariam Darestani/>)

View timetable ([https://classregistration.westernsydney.edu.au/even/timetable/?subject\\_code=CIVL2002\\_22-SPR\\_KW\\_D#subjects](https://classregistration.westernsydney.edu.au/even/timetable/?subject_code=CIVL2002_22-SPR_KW_D#subjects))

## Parramatta - Victoria Rd

#### Day

**Subject Contact** Mariam Darestani (<https://directory.westernsydney.edu.au/search/name/Mariam Darestani/>)

View timetable ([https://classregistration.westernsydney.edu.au/even/timetable/?subject\\_code=CIVL2002\\_22-SPR\\_PS\\_D#subjects](https://classregistration.westernsydney.edu.au/even/timetable/?subject_code=CIVL2002_22-SPR_PS_D#subjects))

## Sydney City Campus - Term 3 (2022)

### Sydney City

#### Day

**Subject Contact** Peter Lendrum (<https://directory.westernsydney.edu.au/search/name/Peter Lendrum/>)

View timetable ([https://classregistration.westernsydney.edu.au/even/timetable/?subject\\_code=CIVL2002\\_22-SC3\\_SC\\_D#subjects](https://classregistration.westernsydney.edu.au/even/timetable/?subject_code=CIVL2002_22-SC3_SC_D#subjects))

## Sydney City Campus - Term 2 (2023)

### Sydney City

#### On-site

**Subject Contact** Peter Lendrum (<https://directory.westernsydney.edu.au/search/name/Peter Lendrum/>)

View timetable ([https://classregistration.westernsydney.edu.au/odd/timetable/?subject\\_code=CIVL2002\\_23-SC2\\_SC\\_1#subjects](https://classregistration.westernsydney.edu.au/odd/timetable/?subject_code=CIVL2002_23-SC2_SC_1#subjects))

## Spring (2023)

### Penrith (Kingswood)

#### On-site

**Subject Contact** Mariam Darestani (<https://directory.westernsydney.edu.au/search/name/Mariam Darestani/>)

View timetable ([https://classregistration.westernsydney.edu.au/odd/timetable/?subject\\_code=CIVL2002\\_23-SPR\\_KW\\_1#subjects](https://classregistration.westernsydney.edu.au/odd/timetable/?subject_code=CIVL2002_23-SPR_KW_1#subjects))

## **Parramatta City - Macquarie St**

### **On-site**

**Subject Contact** Mariam Darestani ([https://directory.westernsydney.edu.au/search/name/Mariam Darestani/](https://directory.westernsydney.edu.au/search/name/Mariam%20Darestani/))

View timetable ([https://classregistration.westernsydney.edu.au/odd/timetable/?subject\\_code=CIVL2002\\_23-SPR\\_PC\\_1#subjects](https://classregistration.westernsydney.edu.au/odd/timetable/?subject_code=CIVL2002_23-SPR_PC_1#subjects))