

NATS 7009 ENVIRONMENTAL FORENSICS 2

Credit Points 10

Legacy Code 301153

Coordinator Chris Lennard ([https://directory.westernsydney.edu.au/search/name/Chris Lennard/](https://directory.westernsydney.edu.au/search/name/Chris%20Lennard/))

Description The subject is designed for professionals working in environmental regulatory authorities and laboratories at the federal, state or local level. This includes but is not limited to police jurisdictions, environmental protection agencies (EPAs), coastguards, park rangers, customs and quarantine officials. The subject consists of four case studies drawn from real-world scenarios. The skills and knowledge gained from Environmental Forensics 1 will be used to produce environmental forensic reports related to the case studies. The assessment is problem-based.

School Science

Discipline Forensic Science

Student Contribution Band HECS Band 2 10cp

Check your fees via the Fees (https://www.westernsydney.edu.au/currentstudents/current_students/fees/) page.

Level Postgraduate Coursework Level 7 subject

Pre-requisite(s) NATS 7008

Restrictions

Students must be enrolled in 3741 Master of Forensic Science, 3742 Graduate Diploma in Forensic Science or 3743 Graduate Certificate in Forensic Science.

Learning Outcomes

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

1. To identify problems and analyse the main features of environmental forensic case studies.

Subject Content

Design of a uranium mine environmental monitoring program (Supervising Scientist of the Australian Government Department of the Environment and Heritage)

Assessment of a maritime oil spill event (Australian Maritime Safety Authority)

Use of spreadsheet-based plume modelling software to model groundwater contamination (US EPA, US Air Force)

Assessment of the processes acting on the distribution and concentration of a dissolved phase hydrocarbon plume (BP Australia)

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
Final Exam	Not specified	100	N	Individual