

# ENVIRONMENTAL STUDIES (ENVL)

## ENVL 1003 Environmental Issues and Solutions (WSTC) (10 Credit Points)

**Subject Details** (<https://hbook.westernsydney.edu.au/subject-details/envl1003/>) **Legacy Code:** 700296

This subject explores a variety of environmental issues with a focus on emerging environmental issues. The relationships between human health and environmental health are explored through a number of case studies. Concepts explored include 21st Century contaminants, noise, energy and water. Through a combination of case studies and practical field experience, students will develop the skills and knowledge appropriate to develop solutions to a variety of environmental issues.

**Level:** Undergraduate Level 1 subject

**Equivalent Subjects:** PUBH 1002 Environment and Health

ENVL 1002 Environmental Issues and Solutions

**Restrictions:** Please see the Subject Details page for any restrictions for this subject

## ENVL 1004 Introduction to Environmental Science (10 Credit Points)

**Subject Details** (<https://hbook.westernsydney.edu.au/subject-details/envl1004/>) **Legacy Code:** 301407

Students learn how biology, chemistry and the physical sciences interact to regulate environmental processes in natural and built environments. They will evaluate concepts of sustainability and resilience and apply these perspectives to understand how human actions can alter the natural world. Students will use interdisciplinary approaches, including field studies, to investigate environmental processes and evaluate specific environmental challenges. Local and global environmental issues, sustainability, resilience and stewardship will be explored across diverse social and ecological contexts.

**Level:** Undergraduate Level 1 subject

**Restrictions:** Please see the Subject Details page for any restrictions for this subject

## ENVL 1005 Environmental Issues and Solutions (UG Cert) (10 Credit Points)

**Subject Details** (<https://hbook.westernsydney.edu.au/subject-details/envl1005/>) **Legacy Code:** 500053

This subject explores a variety of environmental issues with a focus on emerging environmental issues. The relationships between human health and environmental health are explored through a number of case studies. Concepts explored include 21st Century contaminants, noise, energy and water. Through a combination of case studies and practical field experience, students will develop the skills and knowledge appropriate to develop solutions to a variety of environmental issues.

**Level:** Undergraduate Level 1 subject

**Equivalent Subjects:** PUBH 1002 Environment and Health ENVL 1003 Environmental issues and Solutions ENVL 1002 Environmental issues and Solutions

**Restrictions:** Please see the Subject Details page for any restrictions for this subject

## ENVL 1006 Environmental Health Issues and Solutions (10 Credit Points)

**Subject Details** (<https://hbook.westernsydney.edu.au/subject-details/envl1006/>)

This subject explores the interdependent nature of human health and that of the environment, both natural and urban. Concepts explored include 21st Century contaminants, noise, energy and water. Through a combination of case studies and practical field experience, students will develop the skills and knowledge appropriate to develop solutions to a variety of environmental health issues.

**Level:** Undergraduate Level 1 subject

**Equivalent Subjects:** PUBH 1002 - Environment and Health

ENVL 1002 - Environmental Issues and Solutions

**Restrictions:** Please see the Subject Details page for any restrictions for this subject

## ENVL 1007 Environmental Health Issues and Solutions (WSTC) (10 Credit Points)

**Subject Details** (<https://hbook.westernsydney.edu.au/subject-details/envl1007/>)

This subject explores the interdependent nature of human health and that of the environment, both natural and urban. Concepts explored include 21st Century contaminants, noise, energy and water. Through a combination of case studies and practical field experience, students will develop the skills and knowledge appropriate to develop solutions to a variety of environmental health issues.

**Level:** Undergraduate Level 1 subject

**Equivalent Subjects:** ENVL 1003 Environmental Issues and Solutions (WSTC)

ENVL 1006 Environmental Health Issues and Solutions

PUBH 1002 Environment and Health

ENVL 1002 Environmental Issues and Solutions

**Restrictions:** Please see the Subject Details page for any restrictions for this subject

## ENVL 1008 Sustainable and Ethical Industry Practices (WSTC) (10 Credit Points)

**Subject Details** (<https://hbook.westernsydney.edu.au/subject-details/envl1008/>)

This subject deals with the local, national, and global sustainability issues concerning human interactions with the natural and built environment. With a focus on UN Sustainable Development Goals, this subject uses case studies in innovation and scientific methodology to provide the practical and theoretical knowledge needed for students to think critically about ethical responsibilities contributing to the sustainable management of natural and built environments. Students will also learn how science and society interact in the management of resources. Using the concept of ecologically sustainable development as a foundation, students will research contemporary industrial problems relating to resource extraction, manufacturing and recycling. Students will communicate their research and make recommendations for improving sustainability.

**Level:** Undergraduate Level 1 subject

**Restrictions:** Please see the Subject Details page for any restrictions for this subject

**ENVL 2001 Analysis of Spatial Data (10 Credit Points)**

**Subject Details** (<https://hbook.westernsydney.edu.au/subject-details/envl2001/>) **Legacy Code:** 101646

The making and the use of maps. This subject involves the critical examination of the way geographical data is produced, analysed, mapped and used to inform both private and public decisions. Natural environment, health, accessibility and residential amenity are examples of phenomena that have an important geographical dimension. Policy responses to these phenomena need to be specific with regard to locations and places. Geographic information systems software and census will be used to produce maps based on the analysis and interpretation of data relating to the student's field of interest.

**Level:** Undergraduate Level 2 subject

**Equivalent Subjects:** LGYA 7235 - Analysis of Spatial Data

**Restrictions:** Please see the Subject Details page for any restrictions for this subject

**ENVL 2007 Environmental Monitoring and Assessment (10 Credit Points)**

**Subject Details** (<https://hbook.westernsydney.edu.au/subject-details/envl2007/>) **Legacy Code:** 301408

In this subject, you will develop the practical skills and underlying scientific knowledge required to address environmental questions across natural and built environments. Through practicals, workshops, and an independent research project you will learn how to design a monitoring and assessment program to characterise different environment situations, interpret data and propose management solutions to contemporary environmental challenges. The subject will introduce a range of topics, including the application of geographic information systems (GIS), remote sensing methodologies, environmental sensors, the internet of things and citizen science approaches to understand and improve environmental situations, and provides opportunities to research a chosen, real-world topic to assess an aspect of environmental sustainability.

**Level:** Undergraduate Level 2 subject

**Restrictions:** Please see the Subject Details page for any restrictions for this subject

**ENVL 2008 Australian Ecosystems: Threats and Solutions (10 Credit Points)**

**Subject Details** (<https://hbook.westernsydney.edu.au/subject-details/envl2008/>)

Australian ecosystems are home to a unique and diverse set of plants and animals. This diversity underpins healthy functioning and resilience of our ecosystems, yet is under threat from habitat degradation, pollution, invasive species and climate change. In this subject you will be introduced to different Australian vegetation communities and explore interactions with soil, animals and climate. You will learn how environmental threats and disturbances affect Australian ecosystems and be introduced to the principles of ecosystem conservation and policy. Practical include a mix of field- and lab-based activities to develop job-ready skills such as surveying and identifying ecological communities.

**Level:** Undergraduate Level 2 subject

**Restrictions:** Please see the Subject Details page for any restrictions for this subject

**ENVL 2009 Ecosystem Restoration (10 Credit Points)**

**Subject Details** (<https://hbook.westernsydney.edu.au/subject-details/envl2009/>)

Ecosystem Restoration will cover the most widely used and successful management strategies employed to conserve and restore native species and communities facing land degradation and major threats. This subject will cover policy requirements and active management strategies involved in rewilding, ecological restoration, reintroductions, translocations, and their implementation at local, national and global levels. You will explore the full range of concepts and tools for conservation management. This subject will focus on restoration and conservation from individuals to landscapes. Indigenous and industry groups will guide workshop discussions. Its focus is ecological, although consideration is also given to socio-economic factors that influence restoration programs.

**Level:** Undergraduate Level 2 subject

**Restrictions:** Please see the Subject Details page for any restrictions for this subject

**ENVL 2010 Conservation Priorities and Process (10 Credit Points)**

**Subject Details** (<https://hbook.westernsydney.edu.au/subject-details/envl2010/>)

Conservation Priorities and Practice examines the procedures involved in real world conservation interventions and their impact on biodiversity. You will develop the skills to assess the threatened status of species and ecosystems, and how decisions are made to prioritise resource allocation. You will be encouraged to think about conservation recovery plans in state, national, and international policy and governance frameworks. You will assess how conservation outcomes are managed on different land holdings such as private land including on farms (agroecology) and how biodiversity offsetting is applied. You will build a cross-disciplinary awareness of biodiversity conservation practices and how to engage with diverse interest groups.

**Level:** Undergraduate Level 2 subject

**Restrictions:** Please see the Subject Details page for any restrictions for this subject

**ENVL 3005 Planning the City: Development, Community and Systems (10 Credit Points)**

**Subject Details** (<https://hbook.westernsydney.edu.au/subject-details/envl3005/>) **Legacy Code:** 101593

This subject aims to provide students with a fundamental understanding of the role of government, focusing on the role and nature of planning across all levels of government from a variety of theoretical frameworks. It presents a critical examination of the urban development and planning processes, with particular attention given to the environmental and political issues associated with planning at the local government level. It looks at the changes and challenges confronting local government in view of the demands made on them by the changing social and economic conditions and societal values such as those relating to requirements for public participation, transparency and accountability. The subject also examines the role of private sector in planning and assessment processes.

**Level:** Undergraduate Level 3 subject

**Restrictions:** Please see the Subject Details page for any restrictions for this subject

**ENVL 3006 Transport, Access and Equity (10 Credit Points)**

**Subject Details** (<https://hbook.westernsydney.edu.au/subject-details/envl3006/>) **Legacy Code:** 101645

This subject examines the equity and efficiency issues in the provision of transport in cities and regions from a critical social science perspective. Issues of transport disadvantage and policy and planning responses to improve access to urban services are examined. The social and environmental impact of transport systems are considered in the context of urban management.

**Level:** Undergraduate Level 3 subject

**Equivalent Subjects:** LGYA 7234 - Transport Access and Equity

**Restrictions:** Please see the Subject Details page for any restrictions for this subject

**ENVL 3010 Environmental Planning, Policy & Regulation (10 Credit Points)**

**Subject Details** (<https://hbook.westernsydney.edu.au/subject-details/envl3010/>) **Legacy Code:** 301403

This subject is an introduction to environmental planning and environmental regulations in local and state governments. It covers the role of planning and enforcement of regulations in protecting the natural environment, enhancing public health and/or encouraging sustainable development practices. Students become familiar with the key legislation for environmental protection and then explore how planning and regulations can assist with achieving optimal environmental outcomes. Current planning and regulations are examined using urban development and planning in Sydney as the primary case study. The subject includes key environmental planning policies and important legislation used by state, local and Commonwealth governments to protect the natural and built environment and to protect public health.

**Level:** Undergraduate Level 3 subject

**Equivalent Subjects:** PUBH 2007 Environmental Planning and Climate Change

ENVL 2002 Environmental Regulations and Policy

**Restrictions:** Please see the Subject Details page for any restrictions for this subject

**ENVL 7002 Planning and Environmental Regulation (10 Credit Points)**

**Subject Details** (<https://hbook.westernsydney.edu.au/subject-details/envl7002/>) **Legacy Code:** 101634

This subject provides students with an understanding of the planning process from both a state and local government perspective. The subject will cover concepts related to the planning process, focusing on development control and regulation issues, planning instruments and development applications. It will also address the areas of planning and environment law, with specific reference to the legal framework that regulates planning and development in NSW.

**Level:** Postgraduate Coursework Level 7 subject

**Restrictions:** Please see the Subject Details page for any restrictions for this subject

**ENVL 7003 Urban Research Report (10 Credit Points)**

**Subject Details** (<https://hbook.westernsydney.edu.au/subject-details/envl7003/>) **Legacy Code:** 101637

This capstone subject requires students to write a 5,000 word comprehensive research report on a local or international urban planning issue. Students will select a research topic of individual interest, and work to assemble a range of evidence to address the research question. This facilitates an opportunity for students to apply their skills and knowledge acquired in the Master's program, through a high level of work and quality engagement in an authentic and professional context.

**Level:** Postgraduate Coursework Level 7 subject

**Equivalent Subjects:** LGYA 1299 - Urban Management Placement Thesis

**Restrictions:** Please see the Subject Details page for any restrictions for this subject

**ENVL 9001 Higher Degree Research Thesis - Environmental Studies (80 Credit Points)**

**Subject Details** (<https://hbook.westernsydney.edu.au/subject-details/envl9001/>) **Legacy Code:** 800067

**Level:** PhD and Research Masters Level 9 subject

**Restrictions:** Please see the Subject Details page for any restrictions for this subject