

# ENVL 2001 ANALYSIS OF SPATIAL DATA

**Credit Points** 10

**Legacy Code** 101646

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

**Description** 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.

**School** Social Sciences

**Discipline** Environmental Studies, Not Elsewhere Classified.

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

Check your fees 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** LGYA 7235 - Analysis of Spatial Data

## Restrictions

Successful completion of 40 credit points.

## Learning Outcomes

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

1. Describe and critically analyse geographical information
2. Apply GIS to the analysis and modelling of social, economic or environmental data
3. Identify and describe the spatial dimension of issues in the social or environmental sciences

## Subject Content

Basic elements and principles of mapping/cartography

Basics of Geographic Information Systems (GIS)

Understanding social and environmental spatial databases

Spatial analysis of social data

Modelling urban growth and change within cities

Geographic Information Systems (GIS) applications

Web based mapping for communities

Critical appraisal of spatial information

Spatial dimensions of social indices

## 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	Mandatory
Quiz	500 words	25	N	Individual	N
Applied Project	1,000 words	25	N	Individual	N
Applied Project	1,500 words	50	N	Individual	N

Teaching Periods

## Spring (2025)

### Penrith (Kingswood)

#### On-site

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

[View timetable](https://classregistration.westernsydney.edu.au/odd/timetable/?subject_code=ENVL2001_25-SPR_KW_1#subjects) ([https://classregistration.westernsydney.edu.au/odd/timetable/?subject\\_code=ENVL2001\\_25-SPR\\_KW\\_1#subjects](https://classregistration.westernsydney.edu.au/odd/timetable/?subject_code=ENVL2001_25-SPR_KW_1#subjects))

## Parramatta - Victoria Rd

#### On-site

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

[View timetable](https://classregistration.westernsydney.edu.au/odd/timetable/?subject_code=ENVL2001_25-SPR_PS_1#subjects) ([https://classregistration.westernsydney.edu.au/odd/timetable/?subject\\_code=ENVL2001\\_25-SPR\\_PS\\_1#subjects](https://classregistration.westernsydney.edu.au/odd/timetable/?subject_code=ENVL2001_25-SPR_PS_1#subjects))