# Critical Information Summary

## Title and brief description
ENVTM5050 GIS and Remote Sensing in a Changing World
In this micro-credential participants will explore geographic information systems (GIS) and remote sensing methods through real-world scenarios. They will explore impactful applications, such as the use of timeseries satellite data in measuring climate change impacts, or blue carbon hotspots. After completion, participants will be better prepared to apply GIS and remote sensing to environmental monitoring scenarios. These skills can be integrated into various aspects of environmental analysis and impact assessments.

## Certified learning
1. Apply GIS and remote sensing data to a real-world environmental scenario.
2. Demonstrate an understanding of the complexities of spatial data, including recognising different types of spatial data, and applying correct projections and transformations to spatial data.
3. Develop a geoprocessing model that uses spatial data and multiple spatial techniques to evaluate environmental questions.
4. Effectively communicate the geoprocessing method and environmental assessment in written and visual formats.

## How learner participated
Online only

## Effort required (indicative)
150 hours

## Main assessment task
Application of a skill to a complex problem

## Supervision and identity verification
Unsupervised, no identity verification

## Indicative equivalent level
Masters

## Quality assurance
The University of Western Australia

## Successful learner earns PD Points for conversion to:
6 PD Points

- Admission to an award course: No
- Credit towards an award course: Yes
  Unspecified credit towards a Master of Agricultural Economics, Master of Agricultural Science, Master of Biotechnology or Master of Environmental Science (6 PD points required).
- If yes, how much credit? Credit is one unit