

Course Title: **Geospatial Science for Conservation**

Course Code: **ENVS804**

Descriptor Start Date: **13/07/2020**

POINTS: **15.00**

LEVEL: **8**

PREREQUISITE/S:

COREQUISITE/S:

RESTRICTION/S:

LEARNING HOURS

Hours may include lectures, tutorials, online forums, laboratories. Refer to your timetable and course information in Canvas for detailed information.

Total learning hours: 150

PRESCRIPTOR

Spatial conservation ecology theory and the application of geospatial methods to addressing conservation ecology problems.

LEARNING OUTCOMES

1. Critically analyse strengths and weaknesses of research publications in the application of GIS interventions.
2. Synthesise and condense information from selected research publications in the application of GIS in conservation.
3. Present work at the appropriate academic standard.

CONTENT

- Introduction to Conservation GIS - Landscape and ecosystem based spatial management
- GIS applications in selected topics such as island conservation, watershed analysis and forest environments
- GIS applications in species management and mapping biodiversity
- Remote sensing using drones for habitat management
- Open source applications for ecosystem management

LEARNING & TEACHING STRATEGIES

Disclaimer: Course descriptors may be amended between teaching periods/semesters

This course will be offered as a combination of any of the following: formal or semi-formal lectures, class discussions, applications laboratories, written work, and independent study. Students will be expected to read widely.

ASSESSMENT PLAN

Assessment Event	Learning Outcomes
Assignment 1: Topic selected by the lecturer or, as approved by the lecturer and student. Overall g	LO1, LO2, LO3
Assignment 2: Topic selected by the lecturer or, as approved by the lecturer and student. Overall g	LO1, LO2, LO3

Grade Map	MAP1
	A+ A A- Pass with Distinction
	B+ B B- Pass with Merit
	C+ C C- Pass
	D Fail

Overall requirement/s to pass the course:

Students must achieve all learning outcomes in order to pass this course.

LEARNING RESOURCES

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For further information, contact: Te Ara Hauora A Putaiao - Faculty of Health & Environmental Science

Principal Programme:	AK1037, Master of Science (Research)
Related Programme/s:	AK1037 Master of Science AK1037 Master of Science (Research) AK1038 Postgraduate Diploma in Science AK1039 Postgraduate Certificate in Science AK1040 Bachelor of Science (Honours) AK3529 Postgraduate Diploma of Applied Science AK3656 Bachelor of Applied Science (Honours)

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