



A summary of success of applied learning in a degree at Unitec

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Department of Natural Sciences

Bachelor of Applied Science

(Biodiversity Management & Animal Behaviour and Welfare majors)

Negotiated Study Course

- 30 credit course in 3rd year of study
- **Aim:** to provide students with an opportunity to complete an investigation into a negotiated topic related to their area of study using a range of research skills.



Learning Outcomes

- Conceptualise a research proposal
- Complete a literature review on the topic
- Develop the methodology for testing the topic
- Implement the research project.
- Analyse the results and communicate the findings in a poster and a report.

In addition, the student is expected to produce a publication, e.g. poster or oral presentation at a conference &/or written paper



Collaborative Arrangements: a win-win situation

Aim to provide students with opportunities for exposure/collaboration with industry

The student benefits:

- Introduce the student to industry
- Provide a supportive environment where they can learn and grow
- Complete their negotiated study
- Potential employment/study opportunity on completion of degree
- Applied real-world learning

The collaborator benefits:

- Young, enthusiastic, hard working student
- Completion of small research project



Unitec/Auckland Council Collaboration: Treasure Islands

Oral Presentation 2014: Shanti Morgan

An assessment of risk pathways from commercial businesses to pest-free islands of the Hauraki Gulf

S. Morgan, A. Marshall, J. Cook, N Waipara, D. Ward, A. McNatty, N.Adams, M. Galbraith, D. Fraser



Poster presentations 2014:

Andrew Marshall

Distribution of the Argentine ant (*Linepithema humile*) and Rainbow skink (*Lampropholis delicata*) in selected locations across the Rodney district of Auckland, NZ



Sarah Killick

Detecting the spread of a known rainbow skink (*Lampropholis delicata*) population over an island.



Unitec/Auckland Uni/Connovations collaboration:

Oral Presentation: Jared Waters

Novel lures to increase possum detection and decrease rat interference at Chew Cards.

J. Waters¹, N. Adams¹, D. Fraser¹, J. MacKay²

Product: Lure it Spray & Blaze, Connovations Ltd.

Journal paper in draft.



Unitec/Key Industries collaboration:

Poster presentation 2014: Sarah-Jayne Fenwick & Urvashi Lalu



Potential Impact of Argentine Ant (*Linepithema humile*) on Beehive Productivity

Paper submission 2014: Jo Aley

The efficacy of Capsaicin as an equine repellent for chewing wood.



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