

## NRMT90004 Conservation Genetics

<b>Credit Points:</b>	12.50
<b>Level:</b>	9 (Graduate/Postgraduate)
<b>Dates &amp; Locations:</b>	This subject is not offered in 2011.
<b>Time Commitment:</b>	Contact Hours: Twenty-four hours of lectures, and 36 hours of tutorials and presentations Total Time Commitment: Not available
<b>Prerequisites:</b>	Introductory subjects in genetics [652-214 Principles of Genetics] and statistics [620-160 Experimental Design & Data Analysis] or equivalent.
<b>Corequisites:</b>	N/A
<b>Recommended Background Knowledge:</b>	N/A
<b>Non Allowed Subjects:</b>	N/A
<b>Core Participation Requirements:</b>	For the purposes of considering request for Reasonable Adjustments under the Disability Standards for Education (Cwth 2005), and Students Experiencing Academic Disadvantage Policy, academic requirements for this subject are articulated in the Subject Description, Subject Objectives, Generic Skills and Assessment Requirements of this entry. The University is dedicated to provide support to those with special requirements. Further details on the disability support scheme can be found at the Disability Liaison Unit website: <a href="http://www.services.unimelb.edu.au/disability/">http://www.services.unimelb.edu.au/disability/</a>
<b>Contact:</b>	<p><b>Melbourne School of Land &amp; Environment Student Centre</b> Ground Floor, Land &amp; Food Resources (building 142)</p> <p><i>Enquiries</i> Phone: 13 MELB (13 6352) Email: <a href="mailto:13MELB@unimelb.edu.au">13MELB@unimelb.edu.au</a> (mailto:13MELB@unimelb.edu.au)</p>
<b>Subject Overview:</b>	<p>On completion of the subject, students should have an appreciation of the principles of conservation genetics and be able to critically assess, design and implement genetic conservation strategies for <i>in situ</i> and <i>ex situ</i> species conservation.</p> <p>This subject will explore the theory and application of genetics in species conservation, including:</p> <ul style="list-style-type: none"> <li># principles of evolutionary genetics of national populations;</li> <li># genetic consequences of declining population size and fragmentation;</li> <li># population structure and patterns of local adaptation;</li> <li># inbreeding, outbreeding, hybridization and their effects on fitness and population viability;</li> <li># molecular and quantitative trait variation;</li> <li># measurement of diversity, data analysis and interpretation; and</li> <li># genetic management of populations for conservation, including case studies of both plants and animals.</li> </ul>
<b>Objectives:</b>	Information Not Available
<b>Assessment:</b>	Examination of two hours duration (40%), two assignments of 3,000 words each (25% each assignment) and seminar presentation (10%).
<b>Prescribed Texts:</b>	Information Not Available
<b>Breadth Options:</b>	This subject is not available as a breadth subject.
<b>Fees Information:</b>	Subject EFTSL, Level, Discipline & Census Date, <a href="http://enrolment.unimelb.edu.au/fees">http://enrolment.unimelb.edu.au/fees</a>
<b>Generic Skills:</b>	<p>The subject will provide the student with the opportunity to establish and develop the following generic skills:</p> <ul style="list-style-type: none"> <li># problem solving and critical thinking skills;</li> </ul>

	# the ability to use conceptual models to rationalize observations; and # an understanding of the changing knowledge base.
<b>Related Course(s):</b>	Master of Animal Science
<b>Related Majors/Minors/ Specialisations:</b>	Conservation, Restoration and Landscape Management Sustainable Forests