ECOL30005 Applied Ecology

Credit Points:	12.50
Level:	3 (Undergraduate)
Dates & Locations:	2012, Parkville This subject commences in the following study period/s: Semester 2, Parkville - Taught on campus.
Time Commitment:	Contact Hours: 2 x one hour lectures per week; and 20 hours tutorials/workshops (including excursions) during the semester Total Time Commitment: Estimated total time commitment of 120 hours
Prerequisites:	One of **Subject** / **Study Period Commencement:** / **Credit Points:** ECOL20003 Ecology — Semester 2 — 12.50 # 654-204 Ecology: Individuals and Populations (prior to 2009) # 606-204 Ecology: Communities and Ecosystems (prior to 2009)
Corequisites:	None
Recommended Background Knowledge:	None
Non Allowed Subjects:	Students who have received credit for either of the following subjects may not enrol in this subject for credit. # 654-308 Conservation Biology (prior to 2010) # 121-306 Applied Ecology (prior to 2010)
Core Participation Requirements:	For the purposes of considering applications for Reasonable Adjustments under the Disability Standards for Education (Cwth 2005) and Students Experiencing Academic Disadvantage Policy, this subject requires all students to actively and safely participate in tutorial, workshop and excursion activities. Students who feel their disability may impact upon their participation are encouraged to discuss this with the Subject Coordinator and the Disability Liaison Unit. http://www.services.unimelb.edu.au/disability/
Coordinator:	Assoc Prof Brendan Wintle, Assoc Prof Graeme Coulson
Contact:	Email: ECOL30005@zoology.unimelb.edu.au
Subject Overview:	The subject describes and evaluates the applications of ecological concepts for the conservation and management of natural and man-made ecosystems. In particular, it identifies the implications of global and local changes for ecological communities and habitats, especially within the Australian environment. It examines approaches to management of terrestrial and aquatic habitats, including the role of genetics, the effects of habitat fragmentation; the control of pest species, and restoration of damaged habitats
Objectives:	At the completion of this subject, students should understand the ways in which ecological knowledge is used in managing terrestrial and aquatic habitats. Students should appreciate the strengths and weaknesses of different approaches.
Assessment:	Two written assignments totalling up to 5000 words due during the semester (90%); a 10-minute oral presentation at the end of semester (10%).
Prescribed Texts:	None
Recommended Texts:	None

Breadth Options:	This subject potentially can be taken as a breadth subject component for the following courses: # **Bachelor of Arts (https://handbook.unimelb.edu.au/view/2012/B-ARTS)** # **Bachelor of Commerce (https://handbook.unimelb.edu.au/view/2012/B-COM)** # **Bachelor of Environments (https://handbook.unimelb.edu.au/view/2012/B-ENVS)** # **Bachelor of Music (https://handbook.unimelb.edu.au/view/2012/B-MUS)** You should visit **learn more about breadth subjects (http://breadth.unimelb.edu.au/breadth/info/index.html)** and read the breadth requirements for your degree, and should discuss your choice with your student adviser, before deciding on your subjects.
Fees Information:	Subject EFTSL, Level, Discipline & Census Date, http://enrolment.unimelb.edu.au/fees
Generic Skills:	This subject builds upon existing generic skills, and should help students develop their abilities to apply scientific principles to conservation problems, and enhance their skills in data interpretation. Students should also learn how to access information from the primary scientific literature, through both electronic and traditional sources. The tutorial component of this subject should allow students to develop skills in speaking to a scientific audience with a small group of students. This will include arrangement of content among speakers and presentation of material (using appropriate media) by taking part in formal debate of a controversial topic in conservation biology.
Notes:	This subject is available for science credit to students enrolled in the BSc (both pre-2008 and new degrees), BASc or a combined BSc course.
Related Majors/Minors/ Specialisations:	Botany (pre-2008 Bachelor of Science) Conservation and Australian Wildlife (pre-2008 Bachelor of Science) Ecology (pre-2008 Bachelor of Science) Ecology and Evolutionary Biology Environmental Science Environmental Science major Environmental Studies Major Environments Discipline subjects Geography Major Marine Biology Science credit subjects* for pre-2008 BSc, BASc and combined degree science courses Science-credited subjects - new generation B-SCI and B-ENG. Core selective subjects for B-BMED. Zoology
Related Breadth Track(s):	Ecological Science Ecology