

ECOL20003 Ecology

Credit Points:	12.50																					
Level:	2 (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; 1 x three hour practical class per week; one full day excursion during the semester. Total Time Commitment: Estimated total time commitment of 120 hours																					
Prerequisites:	One of <table border="1" data-bbox="387 602 1485 1032"> <thead> <tr> <th>Subject</th> <th>Study Period Commencement:</th> <th>Credit Points:</th> </tr> </thead> <tbody> <tr> <td>BIOL10004 Biology of Cells and Organisms</td> <td>Semester 1</td> <td>12.50</td> </tr> <tr> <td>BIOL10005 Genetics & The Evolution of Life</td> <td>Semester 2</td> <td>12.50</td> </tr> <tr> <td>BIOL10001 Biology of Australian Flora & Fauna</td> <td>Semester 2</td> <td>12.50</td> </tr> <tr> <td>ENVS10001 Natural Environments</td> <td>Semester 1, Semester 2</td> <td>12.50</td> </tr> <tr> <td>BIOL10002 Biomolecules and Cells</td> <td>Semester 1</td> <td>12.50</td> </tr> <tr> <td>BIOL10003 Genes and Environment</td> <td>Semester 2</td> <td>12.50</td> </tr> </tbody> </table>	Subject	Study Period Commencement:	Credit Points:	BIOL10004 Biology of Cells and Organisms	Semester 1	12.50	BIOL10005 Genetics & The Evolution of Life	Semester 2	12.50	BIOL10001 Biology of Australian Flora & Fauna	Semester 2	12.50	ENVS10001 Natural Environments	Semester 1, Semester 2	12.50	BIOL10002 Biomolecules and Cells	Semester 1	12.50	BIOL10003 Genes and Environment	Semester 2	12.50
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Corequisites:	None																					
Recommended Background Knowledge:	None																					
Non Allowed Subjects:	Students who have received credit for either of the following may not enrol in this subject for credit. # 654-204 Ecology: Individuals and Populations (prior to 2009) # 606-204 Ecology: Communities and Ecosystems (prior to 2009)																					
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 laboratory and fieldwork 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 Graeme Coulson, Dr Peter Vesk, Prof Barbara Downes																					
Contact:	Email: ECOL20003@zoology.unimelb.edu.au																					
Subject Overview:	This subject introduces students to four major ecological questions that can be addressed at the levels of individuals, populations, communities and ecosystems. Making use of aquatic and terrestrial examples, topics include organisms and the physical environment, life histories, population growth and regulation, managing populations, theoretical models, species interactions, community change and energy flows. The practical component will emphasise approaches to the collection and analysis of ecological data, and how to interpret and write scientific papers.																					
Objectives:	Upon completion of this subject students should have an appreciation of four major questions in ecology and the ways in which they can be addressed: What determines the distribution																					

	of individuals of a species? What controls the abundance of populations of a species? What determines the richness and diversity of species in a community? What governs the turnover of matter and energy in an ecosystem?
Assessment:	A written practical report totalling up to 10 pages due during the semester (30%); ongoing assessment of practical exercises and laboratory problems during the semester (25%); a 2-hour written examination during the examination period (45%).
Prescribed Texts:	C R Townsend et al, Essentials of Ecology, 3rd Ed. Blackwell, 2008
Breadth Options:	<p>This subject potentially can be taken as a breadth subject component for the following courses:</p> <ul style="list-style-type: none"> # 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) <p>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.</p>
Fees Information:	Subject EFTSL, Level, Discipline & Census Date, http://enrolment.unimelb.edu.au/fees
Generic Skills:	This subject should develop generic skills in: reading, assimilating and writing about scientific information; working in small groups; asking realistic scientific questions; and collecting analysing and interpreting scientific data.
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:	<p>Environmental Geographies, Politics and Cultures major Environmental Science major Environments Discipline subjects Geography Major Landscape Management major Physical (Environmental Engineering) Systems major 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.</p>
Related Breadth Track(s):	<p>Australian Wildlife Ecology, Evolution and Humanity Ecological Science Ecology Greening Urban Landscapes Environmental Science</p>