

## 654-313 Ecology in Changing Environments

<b>Credit Points:</b>	12.50
<b>Level:</b>	3 (Undergraduate)
<b>Dates &amp; Locations:</b>	2009, This subject commences in the following study period/s: Semester 1, - Taught on campus. Lectures, tutorials and practicals.
<b>Time Commitment:</b>	Contact Hours: 24 lectures (two per week) and 20 hours tutorials and practicals Total Time Commitment: 120 hours total time commitment.
<b>Prerequisites:</b>	654-204 or 606-204 (prior to 2009); plus one of 654-201 or 654-202 (prior to 2009).
<b>Corequisites:</b>	None
<b>Recommended Background Knowledge:</b>	None
<b>Non Allowed Subjects:</b>	None
<b>Core Participation Requirements:</b>	It is University policy to take all reasonable steps to minimise the impact of disability upon academic study and reasonable steps will be made to enhance a student's participation in the University's programs. Students who feel their disability may impact upon their active and safe participation in a subject are encouraged to discuss this with the relevant subject coordinator and the Disability Liaison Unit.
<b>Coordinator:</b>	Assoc Prof Stephen Swearer
<b>Subject Overview:</b>	This subject provides students with an essential grounding for careers in ecology, wildlife biology and conservation. It describes and evaluates advanced ecological concepts. Topics include spatial ecology and metapopulations, non-linear population dynamics and time-series analysis, life history evolution, ecological genetics, and indirect foodweb effects. An underlying theme is the relevance of evolutionary theory for understanding the distributions of species, their interactions, and their life history characteristics. An important focus of this subject is learning to read, understand, and critically evaluate relevant contemporary literature.
<b>Objectives:</b>	.
<b>Assessment:</b>	Written essay and short-answer assignment work totalling up to 3000 words due during the semester (40%); a 1-hour written examination held mid-semester (20%); a 2-hour written examination in the examination period (40%).
<b>Prescribed Texts:</b>	None
<b>Breadth Options:</b>	This subject potentially can be taken as a breadth subject component for the following courses: # <b>Bachelor of Arts</b> ( <a href="https://handbook.unimelb.edu.au/view/2009/D09">https://handbook.unimelb.edu.au/view/2009/D09</a> ) # <b>Bachelor of Commerce</b> ( <a href="https://handbook.unimelb.edu.au/view/2009/F04">https://handbook.unimelb.edu.au/view/2009/F04</a> ) # <b>Bachelor of Environments</b> ( <a href="https://handbook.unimelb.edu.au/view/2009/A04">https://handbook.unimelb.edu.au/view/2009/A04</a> ) # <b>Bachelor of Music</b> ( <a href="https://handbook.unimelb.edu.au/view/2009/M05">https://handbook.unimelb.edu.au/view/2009/M05</a> )  You should visit <b>learn more about breadth subjects</b> ( <a href="http://breadth.unimelb.edu.au/breadth/info/index.html">http://breadth.unimelb.edu.au/breadth/info/index.html</a> ) and read the breadth requirements for your degree, and should discuss your choice with your student adviser, before deciding on your subjects.
<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>	The subject builds upon existing generic skills, including an ability to assimilate and critically evaluate new knowledge within a scientific paradigm, and to communicate that knowledge to a

	broad audience. Students will become practised at accessing scientific literature, through both electronic and traditional sources, and gain experience in scientific writing.
<b>Notes:</b>	Students enrolled in the BSc (pre-2008 BSc), BASc or a combined BSc course will receive science credit for the completion of this subject. Formerly known as 654-313 Advanced Ecology.
<b>Related Majors/Minors/ Specialisations:</b>	Conservation and Australian Wildlife Ecology Marine Biology Zoology