

# Ecology and Evolutionary Biology

<b>Year and Campus:</b>	2014																																
<b>Coordinator:</b>	Professor Mick Keough (Department of Zoology) Dr Peter Vesk (School of Botany) Professor Barbara Downs (Department of Resource Management and Geography)																																
<b>Contact:</b>	Email: <a href="mailto:mjkeough@unimelb.edu.au">mjkeough@unimelb.edu.au</a> (mailto:mjkeough@unimelb.edu.au) Email: <a href="mailto:pvesk@unimelb.edu.au">pvesk@unimelb.edu.au</a> (mailto:barbarad@unimelb.edu.au) Email: <a href="mailto:barbarad@unimelb.edu.au">barbarad@unimelb.edu.au</a> (mailto:barbarad@unimelb.edu.au)																																
<b>Overview:</b>	The Ecology and Evolutionary Biology major will provide the springboard for students entering careers or research in the following areas: Ecology, Conservation Biology, Animal Behaviour, Evolutionary Biology, Systematic and Biodiversity, Environmental Consulting. Graduates will be prepared for these pathways by developing skills in survey, experimentation and modelling of ecological and evolutionary processes, which are crucial to being prepared to make contributions in research, education or in consulting roles in natural resources management and environmental consulting industries. This major will integrate knowledge from a range of disciplines from genetics through organismal biology to ecosystem science, by enabling students to complete a sequence of specialist subjects in each, as well as integrated subjects in which the students develop an understanding of the application of ecological methods to solving current problems in evolution, ecology and biodiversity. Students will gain experience preparing them for the workplace by participating in group research projects and working groups.																																
<b>Learning Outcomes:</b>	This major will integrate knowledge from a range of disciplines from genetics through organismal biology to ecosystem science, by enabling students to complete a sequence of specialist subjects in each, as well as integrated subjects in which the students develop an understanding of the application of ecological methods to solving current problems in evolution, ecology and biodiversity. Students will gain experience preparing them for the workplace by participating in group research projects and working groups.																																
<b>Structure &amp; Available Subjects:</b>	Completion of 50 points of study at Level 3.																																
<b>Subject Options:</b>	Core subject <table border="1" data-bbox="389 1285 1485 1431"> <thead> <tr> <th>Subject</th> <th>Study Period Commencement:</th> <th>Credit Points:</th> </tr> </thead> <tbody> <tr> <td>ECOL30006 Ecology in Changing Environments</td> <td>Semester 1</td> <td>12.50</td> </tr> </tbody> </table> Plus one of <table border="1" data-bbox="389 1487 1485 1805"> <thead> <tr> <th>Subject</th> <th>Study Period Commencement:</th> <th>Credit Points:</th> </tr> </thead> <tbody> <tr> <td>BOTA30006 Field Botany</td> <td>January</td> <td>12.50</td> </tr> <tr> <td>GEOG30022 River Ecology &amp; Ecosystem Management</td> <td>Semester 1</td> <td>12.50</td> </tr> <tr> <td>ZOOL30008 Experimental Marine Biology</td> <td>February</td> <td>12.50</td> </tr> <tr> <td>ZOOL30009 Field Biology of Australian Wildlife</td> <td>Semester 2</td> <td>12.50</td> </tr> </tbody> </table> Plus two electives selected from <table border="1" data-bbox="389 1861 1485 2054"> <thead> <tr> <th>Subject</th> <th>Study Period Commencement:</th> <th>Credit Points:</th> </tr> </thead> <tbody> <tr> <td>BOTA30002 Plant Evolution</td> <td>Semester 2</td> <td>12.50</td> </tr> <tr> <td>BOTA30003 Environmental Plant Physiology</td> <td>Semester 1</td> <td>12.50</td> </tr> </tbody> </table>			Subject	Study Period Commencement:	Credit Points:	ECOL30006 Ecology in Changing Environments	Semester 1	12.50	Subject	Study Period Commencement:	Credit Points:	BOTA30006 Field Botany	January	12.50	GEOG30022 River Ecology & Ecosystem Management	Semester 1	12.50	ZOOL30008 Experimental Marine Biology	February	12.50	ZOOL30009 Field Biology of Australian Wildlife	Semester 2	12.50	Subject	Study Period Commencement:	Credit Points:	BOTA30002 Plant Evolution	Semester 2	12.50	BOTA30003 Environmental Plant Physiology	Semester 1	12.50
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	BOTA30004 Vegetation Management and Conservation	Semester 2	12.50
	BOTA30006 Field Botany	January	12.50
	ECOL30005 Applied Ecology	Semester 2	12.50
	EVSC30003 Environmental Risk Assessment	Semester 1	12.50
	EVSC30006 Ecology of Urban Landscapes	Semester 1	12.50
	GENE30001 Evolutionary Genetics and Genomics	Semester 1	12.50
	GEOG30022 River Ecology & Ecosystem Management	Semester 1	12.50
	ZOOL30004 Evolution and the Human Condition	Semester 1	12.50
	ZOOL30006 Animal Behaviour	Semester 1	12.50
	ZOOL30008 Experimental Marine Biology	February	12.50
	ZOOL30009 Field Biology of Australian Wildlife	Semester 2	12.50
<b>Related Course(s):</b>	Bachelor of Science		