

## 220-201 Native Forest Ecosystems & Biodiversity

<b>Credit Points:</b>	12.500
<b>Level:</b>	Undergraduate
<b>Dates &amp; Locations:</b>	2008, This subject commences in the following study period/s: Semester 2, - Taught on campus.
<b>Time Commitment:</b>	Contact Hours: Twenty-four hours lectures, 36 hours laboratory and field practicals Total Time Commitment: Not available
<b>Prerequisites:</b>	654-142 Genetics and Evolution of Life; 207-103 Ecology or 606-204 Ecology: Communities & Ecosystems; 220-213 Trees and Forests.
<b>Corequisites:</b>	None
<b>Recommended Background Knowledge:</b>	None
<b>Non Allowed Subjects:</b>	None
<b>Core Participation Requirements:</b>	<p>&lt;p&gt;For the purposes of considering request for Reasonable Adjustments under the Disability Standards for Education (Cwth 2005), and Student Support and Engagement Policy, academic requirements for this subject are articulated in the Subject Overview, Learning Outcomes, Assessment and Generic Skills sections of this entry.&lt;/p&gt;         &lt;p&gt;It is University policy to take all reasonable steps to minimise the impact of disability upon academic study, and reasonable adjustments will be made to enhance a student's participation in the University's programs. Students who feel their disability may impact on meeting the requirements of this subject are encouraged to discuss this matter with a Faculty Student Adviser and Student Equity and Disability Support: &lt;a href="http://services.unimelb.edu.au/disability"&gt;http://services.unimelb.edu.au/disability&lt;/a&gt;&lt;/p&gt;</p>
<b>Coordinator:</b>	Dr Chris Weston and Dr Tina Bell
<b>Subject Overview:</b>	<p>This subject covers:</p> <ul style="list-style-type: none"> <li># composition, structure and dynamics of global native forests and woodlands;</li> <li># the range of Australian forests and woodlands - environmental gradients, natural disturbance regimes, pre-settlement forests and their present condition;</li> <li># relationship between forest history, response to disturbance, and forest structure;</li> <li># the role of fungi and invertebrate fauna in sustaining forest biodiversity;</li> <li># natural and managed regeneration of different forest types, regeneration processes and sources of regeneration; phenology of important genera;</li> <li># role of treed and forested ecosystems for conservation and biodiversity, monitoring and understanding biodiversity, corridors and fragmentation;</li> <li># ecosystem services performed by forests and woodlands;</li> <li># contributions of plantations and farm forests to biodiversity.</li> </ul> <p>On completion of this subject students should have:</p> <ul style="list-style-type: none"> <li># a profound respect for truth, intellectual and professional integrity, the principles of learning, and the ethics of scholarship;</li> <li># a capacity for independent critical thought, innovation, rational inquiry and self-directed learning and research;</li> <li># an ability to identify and describe the biophysical, social and economic resources of natural and modified ecosystems, and integrate this information on a catchment scale;</li> </ul>

	<ul style="list-style-type: none"> <li># an ability to interpret the ecological history of individual forest and woodland sites, including the history of disturbance and human intervention;</li> <li># an awareness of and ability to utilise appropriate communication technology and methods for the storage, management and analysis of data;</li> <li># highly developed oral communication skills to allow informed dialogue and liaison with peers, and with individuals and groups from industry, government and the community.</li> </ul>
<b>Assessment:</b>	One 3-hour examination (40% of final marks), two project reports totalling 4000 words (40%) including an appropriately presented collection of relevant forest insects, and a group presentation (20%).
<b>Prescribed Texts:</b>	None
<b>Recommended Texts:</b>	<ul style="list-style-type: none"> <li># <b>Ecology: an Australian Perspective</b> (P Attiwill and B Wilson, eds), OUP, South Melbourne, Vic, 2003</li> </ul>
<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>	Information Not Available
<b>Related Course(s):</b>	Bachelor of Forest Science Bachelor of Forest Science Bachelor of Forest Science/Bachelor of Science