

FRST90034 Ecological Restoration

Credit Points:	12.5
Level:	9 (Graduate/Postgraduate)
Dates & Locations:	<p>2016, Creswick</p> <p>This subject commences in the following study period/s: September, Creswick - Taught on campus.</p> <p>During the pre-teaching period, students will be required to research and prepare an advanced draft of the first Assessment task, and read a journal article in preparation for a workshop. There is a cost for one nights accommodation (~\$40) associated with the main field trip in the second week of the subject.</p>
Time Commitment:	Contact Hours: Equivalent of 24 hours lectures and 36 hours practical work, delivered in a two-week intensive teaching block. Total Time Commitment: 170 hours
Prerequisites:	None
Corequisites:	None
Recommended Background Knowledge:	None
Non Allowed Subjects:	None
Core Participation Requirements:	<p><p>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.</p> <p>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: http://services.unimelb.edu.au/disability</p></p>
Coordinator:	Dr Lauren Bennett, Dr Sabine Kasel
Contact:	<p>Lauren Bennett ltb@unimelb.edu.au (mailto:ltb@unimelb.edu.au)</p> <p>Sabine Kasel skasel@unimelb.edu.au (mailto:skasel@unimelb.edu.au)</p>
Subject Overview:	Ecological Restoration examines the principles and practices needed to restore terrestrial ecosystems in a range of modified landscapes from settled to agricultural to forested. Its focus is ecological, although consideration is also given to socio-economic factors that influence restoration programs. Lectures and field trips explore ecological principles and projects from site to landscape scales, encompassing biodiversity values and ecosystem services.
Learning Outcomes:	<p>At the end of this subject students will have an advanced understanding of:</p> <ul style="list-style-type: none"> # Properties of degraded versus functioning ecosystems # Need for ecological restoration (Australia and elsewhere) # Types and goals of ecological restoration at site to landscape scales # Planning, legislation, incentive schemes relevant to restoration of native systems # Ecological restoration strategies and methods (including harnessing natural processes and planning for climate change) # Indicators of ecosystem function and restoration success at different scales # Benefits of ecological restoration
Assessment:	An assignment of maximum 1,250 words (25%; due at the end of the first week of the 2 week intensive. A group project including oral presentation (30%; 3-4 per group; individual

	presentation for 10 minutes; due last day of the 2 week intensive. An assignment of maximum 2,750 words (45%; due within 6 weeks of the end of the 2 week intensive.
Prescribed Texts:	None
Recommended Texts:	<ul style="list-style-type: none"> # Rieger J, Stanley J, Traynor R (2014) Project Planning and Management for Ecological Restoration. Island Press, Washington, 324pp. # Clewell AF, Aronson J (2013) Ecological Restoration. Principles, Values and Structure of an Emerging Profession. Island Press, Washington, 315pp. # Allison SK (2012) Ecological Restoration and Environmental Change: Renewing Damaged Ecosystems. Routledge, Taylor and Francis, London and New York. 252pp. # Hobbs RJ, Suding KN (2008) New Models of Ecosystem Dynamics and Restoration. Island Press, Washington, 353pp. # Walker, L.R., Walker, J., Hobbs, R.J. (2007) Linking Restoration and Ecological Succession. Springer, New York, 190pp. # Perrow MR, Davy AJ (Eds) (2002) Handbook of Ecological Restoration. Volume 1 Principles of Restoration. Cambridge University Press. 444pp.
Breadth Options:	This subject is not available as a breadth subject.
Fees Information:	Subject EFTSL, Level, Discipline & Census Date, http://enrolment.unimelb.edu.au/fees
Links to further information:	http://graduate.science.unimelb.edu.au/master-of-forest-ecosystem-science
Related Course(s):	Graduate Diploma in Urban Horticulture Master of Forest Ecosystem Science Master of Urban Horticulture
Related Majors/Minors/Specialisations:	Climate Change Climate Change Conservation and Restoration Conservation and Restoration Energy Efficiency Modelling and Implementation Energy Efficiency Modelling and Implementation Environmental Science Environmental Science Integrated Water Catchment Management Integrated Water Catchment Management Master of Science (Ecosystem Science) - Discipline Elective subjects Sustainable Forests Sustainable Forests Tailored Specialisation Tailored Specialisation Waste Management Waste Management